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(1914-1984)

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June 28, 2006

VIA CERTIFIED MAIL

Kim Muratore, Case Developer (SFD-7-B)
U.S. EPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105

Re: General Notice Letter/104(e) for the San Fernando Valley/North Hollywood Superfund Site
North Hollywood, California

Dear Ms. Muratore:

In further response to the information request contained in your General Notice Letter dated April 25, 2006, Los Angeles By-Products Co. submits the enclosed preliminary information, together with a claim of confidentiality and continuing general objections, which are enclosed herewith. Los Angeles By-Products Co.'s responses, claim of confidentiality and continuing general objections are enclosed. However, due to the amount of documents being sent, they are being separately delivered by a common courier.

I would also like to confirm your receipt of the information previously submitted under cover dated June 14, 2006. If you are not in receipt of the previously submitted information, please advise the undersigned.

The final set of responses to the requests for information will be due on July 19, 2006, pursuant to agreement with Michael Massey on June 16, 2006.

Very truly yours,

Raul M. Montes

Raul M. Montes

General Objections To General Notice Letter (104(e))
And To Definitions Applicable To Appendix D; To Enclosure D:
Information Request And To All Contents Therein

"The Company" (as defined by EPA) and "Responding Party" shall be used interchangeably herein. Responding Party hereby raises a continuing objection to each and every Request for Information ("Request") contained in General Notice Letter/104(e) for the San Fernando Valley/North Hollywood Superfund site. Rather than repeat each objection for each request, Responding Party objects on the following grounds, including but not limited to, the Requests are overly broad; not reasonably limited in scope and time; are vague, ambiguous and uncertain, lack reasonable particularity; are burdensome and oppressive; and have been previously asked and answered. Responding Party hereby reserves its right to raise other objections, including but not limited to attorney-client privilege, attorney work-product doctrine and any other privileges, to the fullest extent provided by law.

Responding Party reserves the right to challenge the constitutionality and/or legality of each and every Request contained therein and to the entire contents of the General Notice Letter.

Responding Party is presently not engaged in litigation with EPA and therefore, these responses are made without prejudice to Responding Party's rights to present additional documents in the future, whether it be prior to any litigation and/or further proceedings in this action or as evidence at trial.

Responding Party, while complying with EPA's timetables, has not had the opportunity for conferring, adjudicating or otherwise limiting, modifying any of the Requests. Therefore, further investigation and/or discovery may lead to additions to, changes in and variations from the responses herein set forth. The responses are given without prejudice to Responding Party's ability to produce evidence of any subsequently discovered documents or facts and to change any and all responses herein, and/or to seek any limitations, challenges, and modifications of each and every Request. Responding Party also reserves its rights to challenge any and all Requests on privacy and/or confidentiality grounds at any time herein. Such reservations and challenges are applicable to the "Definitions applicable to Appendix D".

These General Objections are applicable to any and all Responses submitted to the EPA by Responding Party, including its first set of Responses.

If Responding Party becomes a defendant or party to any future litigation, Responding Party reserves its rights to seek any protective orders, modification orders and/or any available protections with regard to each and every Request.

Claim of Confidentiality

Applicable to the

Solid Waste Assessment Test Reports

and Other Reports Provided

Please see the accompanying Solid Waste Assessment Test Reports ("SWAT") documents. The company is stating a claim of confidentiality as stated in each of the following responses and pursuant to sections 104(e)(7)(E) and (F) of CERCLA, 42 U.S.C., §9604(e)(7)(E) and (F), and Section 3007(b) of RCRA, 42 U.S.C. §6927(b), and 40 C.F.R. §2.203(b) and any other relevant and/or applicable Statutes.

The following confidentiality claims are applicable to each and every SWAT document:

SCAQMD – Penrose Reports

1993 – 4th Q

1994 - 4th Q – 2nd Q – 3rd Q – 1st Q

1995 - 4th Q – 3rd Q – 2nd Q – 1st Q

1996 - 4th Q – 2nd Q – 3rd Q – 1st Q

1997 - 4th Q – 3rd Q – 2nd Q – 1st Q

1998 – 4th Q – 3rd Q – 1st Q Compliance Plan 1150.1

1999 - 4th Q – 3rd Q – 2nd Q – 1st Q

2000 – 4th Q – 1st Q

2001 - 4th Q – 3rd Q – 2nd Q

2002 - 4th Q – 3rd Q – 2nd Q – 1st Q

2004 – 2nd Q – 3rd Q

2005 – 4th Q – 1st Q – 3rd Q – 2nd Q

2004 – 2nd Semi Annual GWMR – STRATH

2005 – GWMR – January – June

2004 – GWMR – 1st Semi Annual – STRATH

1998 – 1st Quarter GWMR – STRATHERN

2005 – GWMR-STRATH- July – December

2003 – GWMR – STRATH – 2nd Quarter

2003- GWMR – 4th Quarter- Annual Sum. STRATH

2002 – GWMR – STRATH- 4th Quarter & Ann. Sum

Monitor Well Redevelp. Well 4928C – 2003

2002 – GWMR – STRATH – 2nd Quarter

2001 – GWMR – 1st Quarter – STRATH

2001 - GWMR – STRATH – Annual

2001 – GWMR – STRATH – 3rd Quarter

2000 – GWMR – STRATH – Ann. Sum

2000 – GWMR – STRATH – 1st Quarter

2000 – GWMR – STRATH – 3rd Quarter

1999 – GWMR – STRATH – Ann. Report

1999 – GWMR – STRATH – 1st Quarter

1998 – GWMR – STRATH – Ann. Report

1998 –GWMR – STRATH – 3rd quarter

1997 – GWMR – STRATH – 1st Quarter

1997 – GWMR – STRATH – 3rd Quarter

1997 - GWMR – STRATH – Ann. Report

1996 – GWMR – STRATH – Ann. Report

1995 – GWMR – STRATH – 1st Quarter

1995 – GWMR – STRATH – Ann. Report

1994 – GWMR – STRATH – Ann. Report

1994 – GWMR – STRATH – 3rd Quarter

1993 – GWMR – STRATH – 1st Quarter

1993 – GWMR – STRATH - Ann. Report

1992 – GWMR – STRATH – Ann. Report

1987 – GWMR – Penrose – 4th Quarter

Constr. Testing Vadose Zone Penrose & Newberry & Strath 1989

SWAT – 1989 – Penrose/Newberry/STRATH

CBI

CBI

Response to Information Request

7. The Company's operations at the Tuxford Facility during the period of time the Company operated at the Facility was limited to landfill operations until the landfill operations ceased and the landfill was closed. The landfill operations commence in approximately 1948 and continued until approximately 1955. So far as it is known, from 1955 to 1960, the Company's only activities at the Facility were in connection with complying with closure requirements of the regulatory agencies. So far as it is known, the Company did not conduct any operations at the Facility from 1960 to 1967 when it was sold to Sam Adlen. During the Company's landfill operations, only household refuse was accepted at the Facility.

24. The Company did not engage in the use of hazardous substances or disposal of wastes at the Penrose Facility, other than those wastes associated with the landfill operations. The Company does not otherwise have or had employees with knowledge of the use of hazardous substances and disposal of wastes at the Penrose Facility.

25. The Company did not engage in the use of hazardous substances or disposal of wastes at the Hewitt Pit Facility, other than those wastes associated with the landfill operations. The Company did not otherwise have employees with knowledge of the use of hazardous substances and disposal of wastes at the Hewitt Pit Facility.

26. The Company did not engage in the use of hazardous substances or disposal of wastes at the Tuxford Facility, other than those wastes associated with the landfill operations. The Company did not otherwise have employees with knowledge of the use of hazardous substances and disposal of wastes at the Tuxford Facility.

27. The Company estimates, at any given time, approximately 4 to 8 people were employed by the Company at the Penrose Facility. The only service performed by the Company at the Penrose Facility was and is landfill operations.

28. The Company estimates, at any given time, approximately 4 to 8 people were employed by the Company at the Hewitt Pit Facility. The only service performed by the Company at the Hewitt Pit Facility was landfill operations.

29. The Company estimates, at any give time, approximately 4 to 8 people were employed by the Company at the Tuxford Facility. The only service performed by the Company at the Tuxford Facility was landfill operations.

34. The Company did not use any chemicals or hazardous substances at the Penrose Facility. The Company does not have any Material Safety Data Sheets. So far as it is known, no chemical or hazardous substances were used at the Penrose Facility.

37. The Company did not use or transport to the Penrose Facility any volatile organic compounds. So far as it is known, no volatile organic compounds were used or transported to the Penrose Facility.

38. The Company did not use or transport to the Hewitt Pit Facility any volatile organic compounds. So far as it is known, no volatile organic compounds were used or transported to the Hewitt Pit Facility during the Company's operations at the Facility.

39. The Company did not use or transport to the Tuxford Facility any volatile organic compounds. So far as it is known, no volatile organic compounds were used or transported to the Tuxford Facility during the Company's ownership or operations at the Facility.

40. Copies of the requested information which is in the possession, custody or control of the Company is provided herewith.

43. Copies of the requested information which is in the possession, custody or control of the Company is provided herewith.

50. The Company did not discharge any of its waste stream to the sewer at the Penrose Facility.

56. The Company did not generate any waste streams at the Penrose Facility for transport to a disposal site.

59. The Company did not engage in the removal of waste streams from sumps at the Penrose Facility.

68. So far as it is known, there is no correspondence between the Company and local, state or federal authorities concerning the use, handling, or disposal of hazardous substances at the Penrose Facility.

72. The Company has never owned a facility known as the Blue Diamond Pit

located near the Penrose Facility.

The foregoing information is based upon a diligence review of the Company's records in its possession and control.

February 11, 2006
Job # TP152

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Fourth Quarter, 2005
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the forty-ninth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October through December 2005. This is the twenty-third quarterly report submitted under the March 17, 2000 amended version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill (approved October 1, 2004).

There were no exceedances detected during the integrated landfill surface sampling (ILSS), during the instantaneous landfill surface monitoring (ILSM), or during the ambient air sampling (AAS). There were eleven exceedances detected from subsurface refuse boundary probes (SRBP) during the fourth quarter of 2005.

1. Reporting Requirements

South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2005 fourth quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 76 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD

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monitoring events) compliance probe monitoring on October 26, 27, and 28, November 29 and 30, and December 14 and 16, 2005. Non-compliance probe total organic carbon (TOC) (non-compliance means gas detector monitoring that does not meet all SCAQMD Rule 1150.1 criteria) monitoring was performed by Terra-Petra, Inc. on October 11, November 7, and December 6, 2005, for the City of Los Angeles, Environmental Affairs Department (LEA) requirements. The LEA Inspector monitoring of selected probes were reported for October 13, November 22, and December 20, 2005, during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes E, Q at 10', Q at 40', U at 68', and V at 73' and were sampled on January 6, 2006).

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 3 traversed, sampled, and monitored for TOC on December 13, 15, and 16, 2005; Grids G-4 and H-4 were sampled for TAC laboratory analyses on January 6, 2006).

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west), performed on October 28, November 29, and December 12, 2005. In October and December Path B was monitored, and in November Path A was monitored.

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection, header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled January 6, 2006).

- Collect (annually) ambient air samples (AAS) to determine the concentration of TOC and TAC from upwind (background) locations and downwind locations. Per Attachment A, Section 5.1: "....ambient air samples shall be collected for analysis at the landfill property boundary from both an upwind and downwind sampler sited to provide good meteorological exposure to the predominant offshore (drainage land breeze) and on-shore (sea breeze) wind flow patterns. The upwind and downwind samples shall be collected simultaneously over two 12 hour periods beginning between 9:00 a.m. and 10:00 a.m., and 9:00 p.m. and 10:00 p.m. on the same day or different days." (sampled and December 29 and 30, 2005).

All monitoring and sampling activities, except for agency inspections and the monthly (non-compliance) probe monitoring, and the ambient air sampling were performed by Los Angeles By-Products (LABP) personnel.

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2. Record Keeping Requirements

Section (f)(1) of the Rule describes the record keeping requirements. Section (f)(1) of the Rule describes the record keeping requirements. The RECORDS are available for SCAQMD inspection at the Strathern Landfill weigh station on the east side of Tujunga Avenue across from Penrose Landfill. Section (f)(2) of the Rule requires that this report contain documentation regarding exceedances (and follow-up mitigation measures and results) and TAC laboratory results. The requirements regarding exceedances are summarized in the text of this report and required supplemental documentation is included as attachments in the EXHIBITS with this report. The TAC results are included as EXHIBITS with this report.

The list below inventories the documents supplemental to this report, and required by the Rule, that are available as RECORDS in concurrence with Section (f)(1), but are not included with this report.

- ILSM traverse route maps and inspection reports;
- Quality Control Sheets (QCS) for SRBPM, SRBPS, ILSS, ILSM (maps only), and TSI (except when pertinent as documentation required for reporting exceedances); and;
- Documents for non-SCAQMD probe monitoring events (except when pertinent as documentation required for reporting exceedances).

3. Control System - Penrose Power Plant and Flare

Power Plant Requirements: Through December 31, 2004, the electric power plant operated under, and was compliant to a valid Permit to Construct and a valid Permit to Operate. The permit criteria changed as of January 1, 2005. An upgrading to meet the new standards has been in progress (administered by Penrose Landfill Gas Conversion, LLC). All specifications and data required by the Rule are available at the power plant at 8301 Tujunga Avenue, Sun Valley.

Flare Requirements: To facilitate an extended upgrade period for the electric power plant, a flare, located near the north end of the landfill, was made operational to specifications of a valid permit through SCAQMD. The flare was to be activated as of January 1, 2005. As the upgrade of the power plant progresses, part of the landfill gas is extracted to the power plant while the remaining landfill gas is extracted to the flare.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

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4. Compliance Probe Monitoring Results

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on October 26, 27, and 28, November 29 and 30, and December 14 and 16, 2005. Results: there were five exceedances detected during Rule 1150.1 compliance probe monitoring events. There were six exceedances detected during other probe monitoring events.

Rule 1150.1 requires that Records for probe monitoring (SRBPM) exceedances (see Rule (e)(1)(B & C) on page 7) be documented and included in this report, and also adjustments to vacuum of adjacent wells and re-sampling results (within 10 days, (e)(1)(B)). If the second probe reading is also an exceedance, additional corrective action ((e)(1)(C)) be performed and the probe be re-sampled again no later than 10 calendar days after the second exceedance. If the re-sampling shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

Mitigation Measures: The probes that registered exceedances and the nearest wells available for vacuum adjustments are listed below.

Probe	Well	Probe	Well
E	A12, W1	P	W1
Q	W2	U	W6A+B
V	W7A+B		

The first corrective action was vacuum adjustments at the nearest well(s).

Exceedances 1: 10-11-05: 10.8% of volume at Probe Q @ 10' (see EXHIBIT 2.2.1).

Follow-up Results: 10-18-05: monitoring at Probe Q @ 10' (see EXHIBIT 2.2.2) read ND.

Exceedances 2: 10-26-05: 22% of volume at Probe Q @ 10' (see EXHIBIT 2.2.3).

Follow-up Results: 10-31-05: monitoring at Probe Q @ 10' (see EXHIBIT 2.2.4) read ND.

Exceedance 3: 10-26-05: 7% of volume at Probe Q @ 40' (see EXHIBIT 2.2.3).

Follow-up Results: 10-31-05: monitoring of Probe Q @ 40' (see EXHIBIT 2.2.4) read 0%.

Exceedance 4: 10-26-05: 11% of volume at Probe U @ 68' (see EXHIBIT 2.2.3).

Follow-up Results: 10-31-05: monitoring at Probe U @ 68' (see EXHIBIT 2.2.4) read ND.

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Exceedance 5: 10-26-05: 11% of volume at Probe V @ 73' (see EXHIBIT 2.2.3).

Follow-up Results: 10-31-05: monitoring of Probe V @ 73' (see EXHIBIT 2.2.4) read ND.

Exceedance 6: 10-27-05: 7% of volume at Probe E (see EXHIBIT 2.2.3).

Follow-up Results: 10-31-05: monitoring of Probe E (see EXHIBIT 2.2.4) read ND.

Exceedance 7: 11-07-05: 10.2% of volume at Probe Q @ 40' (see EXHIBIT 2.2.5).

Follow-up Results: 11-10-05: monitoring at Probe Q @ 40' (see EXHIBIT 2.2.6) read 4%.

Exceedance 8: 11-07-05: 6.5% of volume at Probe V @ 73' (see EXHIBIT 2.2.5).

Follow-up Results: 11-10-05: monitoring of Probe V @ 73' (see EXHIBIT 2.2.6) read ND.

Exceedance 9: 11-22-05: 5.4% of volume at Probe P @ 10' (see EXHIBIT 2.2.7).

Follow-up Results: 11-28-05: monitoring of Probe P @ 10' (see EXHIBIT 2.2.8) read ND.

Exceedances 10: 11-22-05: 5.4% of volume at Probe U @ 68' (see EXHIBIT 2.2.7).

Follow-up Results: 11-28-05: monitoring at Probe U @ 68' (see EXHIBIT 2.2.8) read ND.

Exceedances 11: 12-06-05: 9.6% of volume at Probe U @ 68' (see EXHIBIT 2.2.9).

Follow-up Results: 12-10-05: monitoring at Probe U @ 68' (see EXHIBIT 2.2.10) read ND.

5. **Compliance Probe Sampling Results**

Five probe TAC samples were collected on January 6, 2006 from Probes E, Q at 10', Q at 40', U at 68', and V at 73'. The field TOC readings were non-detect (ND) at probes E, Q, and U, and 4% at Probe V at 73' at % of volume range with a GasTech Natural Gas Indicator, Model NPL-204, calibrated to methane (CH_4). The lab TAC results (sample I.D.#s E, Q10', Q40', U68' and V70') are included in EXHIBIT 2.3.

6. **Integrated Landfill Surface Sampling (ILSS) Results**: (see Map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples (from 58 grids) were collected in Tedlar bags and analyzed with a Foxboro portable Organic Vapor Analyzer (OVA), Model OVA Century 128, Flame Ionization Detector (FID), calibrated to methane. The results were recorded on the quality control sheets (QCS). The two samples collected for laboratory

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analyses, G4 from grid G-4 and H4 from grid H-4, read ND as measured by the FID. The Tedlar Bag samples from the 58 grids (collected December 13, 15 and 16, 2005) also registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. Instantaneous Landfill Surface Monitoring (ILSM) Results

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On October 28 and December 12 Path B was monitored, and on November 29 Path A was monitored. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

8. Ambient Air Sampling (AAS) Results (see location map in EXHIBIT 2.1).

AAS were collected on December 29 (0923 hr. to 2125 hr.) and December 30 (ended 0923 hr.), 2005 in summa canisters. AAS TAC results are included as laboratory results (samples AAS-SE1, AAS-NW1, AAS-SE2, and AAS-NW2) in EXHIBIT 4. Because the samples were collected in summa canisters, the lab refused to analyze them for hydrogen sulfide (H_2S).

A Davis Instruments, Monitor II, Digital Weather Station, used during AAS at the site, was equipped to continuously record wind speed and wind direction. Unfortunately, the weather station battery malfunctioned. Thus, those results are not available.

Weather data for the sampling periods, obtained from the National Climatic Data Center for Bob Hope Airport, located 1.8 miles southeast of Penrose Landfill indicate wind speeds were in compliance with Rule 1150.1 limits.

9. Toxic Air Contaminant Results

As required by Section (f)(2)(B)(ii) of the Rule, fourth quarter 2005 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) — EXHIBIT 1;
- SRBPS (Samples E, Q10', Q40', U68', and V70') — EXHIBIT 2.2;
- ILSS (Samples G4 and H4) — EXHIBIT 3.2; and
- AAS (Samples AAS-NW1, -SE1, -NW2, and -SE2) — EXHIBIT 4.

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situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas, migration control and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the Fourth Quarter of 2005.

Sincerely,
Terra-Petra, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHNNY RAY CONAWAY
NO. C 19,689
exp. 9-30-08
CIVIL
STATE OF CALIFORNIA

John Conaway, P. E.

Distribution:

SCAQMD, Mr. Rich Tambara, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado

California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for Fourth Quarter 2005 Compliance Report

EXHIBIT 1 - Control Device Laboratory Results

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – January 6, 06

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: Probe Monitoring Exceedances and Follow-up Monitoring Results

Exhibit 2.2.1: LEA required Probe Monitoring Results – October 11, 05

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Exhibit 2.2.1: LEA required Probe Monitoring Results – October 11, 05

Exhibit 2.2.2: Follow-up Monitoring Results – October 18, 05

Exhibit 2.2.3: SRBPM Monitoring Results (pages 2 and 3) – October 26, 27, 28, 05

Exhibit 2.2.4: Follow-up Monitoring Results – October 31, 05

Exhibit 2.2.5: LEA required Probe Monitoring Results – November 7, 05

Exhibit 2.2.6: Follow-up Monitoring Results – November 10, 05

Exhibit 2.2.7: LEA Inspection Report – November 22, 05

Exhibit 2.2.8: Follow-up Monitoring Results – November 28, 05

Exhibit 2.2.9: LEA required Probe Monitoring Results – December 6, 05

Exhibit 2.2.10: Follow-up Monitoring Results – December 10, 05

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – January 6, 06

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 3)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - January 6, 06

EXHIBIT 4 AAS TAC Laboratory Results: TO-14A Analyses - December 30, 2005

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EXHIBIT 1

PENROSE LANDFILL - Fourth Quarter 2005

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results – January 6, 05: Sample TSI

Hydrogen Sulfide and TO-14A Analyses

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Calscience
Environmental
Laboratories, Inc.

January 16, 2006

Robert McAllister
L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.: 06-01-0261**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/6/2006 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Ranjit K. Clarke

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

CA-ELAP ID: 1230 • NELAP ID: 03220CA • CSDLAC ID: 10109 • SCAQMD ID: 93LA0830
7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

EXHIBIT 1: Sheet 2 of 10

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products		Date Received:	01/06/06
4050 Katella Avenue, Suite 209		Work Order No:	06-01-0261
Los Alamitos, CA 90720-3482		Preparation:	N/A
		Method:	EPA TO-14A
		Units:	ppb (v/v)
Project: Penrose Landfill			Page 1 of 5

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TS1	06-01-0261-1	01/05/06	Air	N/A	01/06/06	060106L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1900	100	200		1,3-Dichlorobenzene	ND	100	200	
Benzyl Chloride	ND	200	200		1,4-Dichlorobenzene	360	100	200	
Carbon Tetrachloride	ND	100	200		Methylene Chloride	760	400	200	
Chlorobenzene	620	100	200		o-Xylene	2500	100	200	
Chloroform	ND	100	200		p/m-Xylene	5500	200	200	
1,1-Dichloroethane	ND	100	200		Tetrachloroethene	ND	100	200	
1,1-Dichloroethene	ND	100	200		Toluene	7600	100	200	
1,2-Dibromoethane	ND	100	200		Trichloroethene	ND	100	200	
1,2-Dichlorobenzene	ND	100	200		1,1,1-Trichloroethane	ND	100	200	
1,2-Dichloroethane	ND	100	200		Vinyl Chloride	230	100	200	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	111	57-129		1,2-Dichloroethane-d4	104	47-137	
Toluene-d8	99	78-156					

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
G4	06-01-0261-2	01/05/06	Air	N/A	01/07/06	060107L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.6	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	4.4	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	14	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	17	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	90	57-129		1,2-Dichloroethane-d4	124	47-137	
Toluene-d8	109	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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EXHIBIT 1: Sheet 3 of 10

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	01/06/06
Work Order No:	06-01-0261
Preparation:	N/A
Method:	EPA TO-14A
Units:	ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	095-01-021-3,586	N/A	Air	N/A	01/07/06	060107L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	57-129		1,2-Dichloroethane-d4	120	47-137	
Toluene-d8	100	78-156					

Method Blank	095-01-021-3,588	N/A	Air	N/A	01/09/06	060109L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	102	57-129		1,2-Dichloroethane-d4	99	47-137	
Toluene-d8	95	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482	Date Sampled: Date Received: Date Analyzed:	01/06/06 01/06/06 01/06/06
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	06-01-0261 EPA 16

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	70	2
G4	ND	1
H4	ND	1
Q10'	ND	1
Q40'	ND	1
E	ND	1
U68'	ND	1
V70'	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
06-01-0261-1	69.6	75.1	8	0 - 15

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EXHIBIT 1: Sheet 5 of 10

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	N/A
Work Order No:	06-01-0261
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-3,586	Air	GC/MS II	N/A	01/07/06	060107L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	116	106	60-156	10	0-40	
Carbon Tetrachloride	126	119	64-154	6	0-32	
1,2-Dibromoethane	91	90	54-144	1	0-36	
1,2-Dichlorobenzene	85	97	34-160	14	0-47	
1,2-Dichloroethane	138	135	69-153	3	0-30	
1,2-Dichloropropane	127	121	67-157	5	0-35	
1,4-Dichlorobenzene	86	97	36-156	12	0-47	
c-1,3-Dichloropropene	113	117	61-157	4	0-35	
Ethylbenzene	93	91	52-154	3	0-38	
o-Xylene	91	91	52-148	1	0-38	
p/m-Xylene	86	85	42-156	2	0-41	
Tetrachloroethene	93	83	56-152	11	0-40	
Toluene	86	88	56-146	2	0-43	
Trichloroethene	119	113	63-159	5	0-34	
1,1,2-Trichloroethane	127	133	65-149	5	0-37	
Vinyl Chloride	103	103	45-177	0	0-36	

RPD - Relative Percent Difference , CL - Control Limit

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EXHIBIT 1: Sheet 6 of 10

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: N/A
Work Order No: 06-01-0261
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-3,588	Air	GC/MS K	N/A	01/09/06	060109L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	105	60-156	3	0-40	
Carbon Tetrachloride	128	135	64-154	5	0-32	
1,2-Dibromoethane	96	100	54-144	5	0-36	
1,2-Dichlorobenzene	71	80	34-160	11	0-47	
1,2-Dichloroethane	102	105	69-153	3	0-30	
1,2-Dichloropropane	99	101	67-157	3	0-35	
1,4-Dichlorobenzene	69	76	36-156	9	0-47	
c-1,3-Dichloropropene	89	93	61-157	4	0-35	
Ethylbenzene	97	101	52-154	4	0-38	
o-Xylene	93	98	52-148	5	0-38	
p/m-Xylene	89	94	42-156	5	0-41	
Tetrachloroethene	101	105	56-152	4	0-40	
Toluene	102	105	56-146	3	0-43	
Trichloroethene	110	116	63-159	5	0-34	
1,1,2-Trichloroethane	102	105	65-149	4	0-37	
Vinyl Chloride	133	114	45-177	16	0-36	

RPD - Relative Percent Difference , CL - Control Limit

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EXHIBIT 1: Sheet 7 of 10

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 06-01-0261

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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0261

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL Date: 1/6/06

Bag (I.D.#)	T3I	G4 (ISS)	H4 (ISS)	Q10'	Q40'	E	U68'	V70'		
Condition Received in Lab*										

Analyses Requested: Core Group & H_2S

Bags Prepared By: Robert McAllister Time: 12:01 pm.
Date: 1/6/06

Bags Taken Out By: [illegible] Time: 1/6/6

Bags Taken to Lab By: [illegible] Time: 1/6/6

Bags Received In Lab By: [illegible] Time: 1/6/06 1430

* P = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,
E = Less than ¼ full but contains some sample, N = No sample at all.

J152TABL.608

EXHIBIT 1: Sheet 9 of 10

000017

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 06 - 0 1 - 0 2 6 1

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: LA by Pratuas DATE: 1/6/6

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
✓ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	[illegible]	✓	
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

V70' is labeled as V73'

EXHIBIT 1: Sheet 10 of 10

EXHIBIT 2

PENROSE LANDFILL - Fourth Quarter 2005

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: Probe Monitoring Exceedances and Follow-up Monitoring Results

Exhibit 2.2.1: LEA required Probe Monitoring Results – October 11, 05

Exhibit 2.2.2: Follow-up Monitoring Results – October 18, 05

Exhibit 2.2.3: SRBPM Monitoring Results (pages 2 and 3) – October 26, 27, 28, 05

Exhibit 2.2.4: Follow-up Monitoring Results – October 31, 05

Exhibit 2.2.5: LEA required Probe Monitoring Results – November 7, 05

Exhibit 2.2.6: Follow-up Monitoring Results – November 10, 05

Exhibit 2.2.7: LEA Inspection Report – November 22, 05

Exhibit 2.2.8: Follow-up Monitoring Results – November 28, 05

Exhibit 2.2.9: LEA required Probe Monitoring Results – December 6, 05

Exhibit 2.2.10: Follow-up Monitoring Results – December 10, 05

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – January 6, 06
Samples E, Q10', Q40', U68', and V70' - Hydrogen Sulfide and TO-14A Analyses

CONFIDENTIA

PROBE MAP

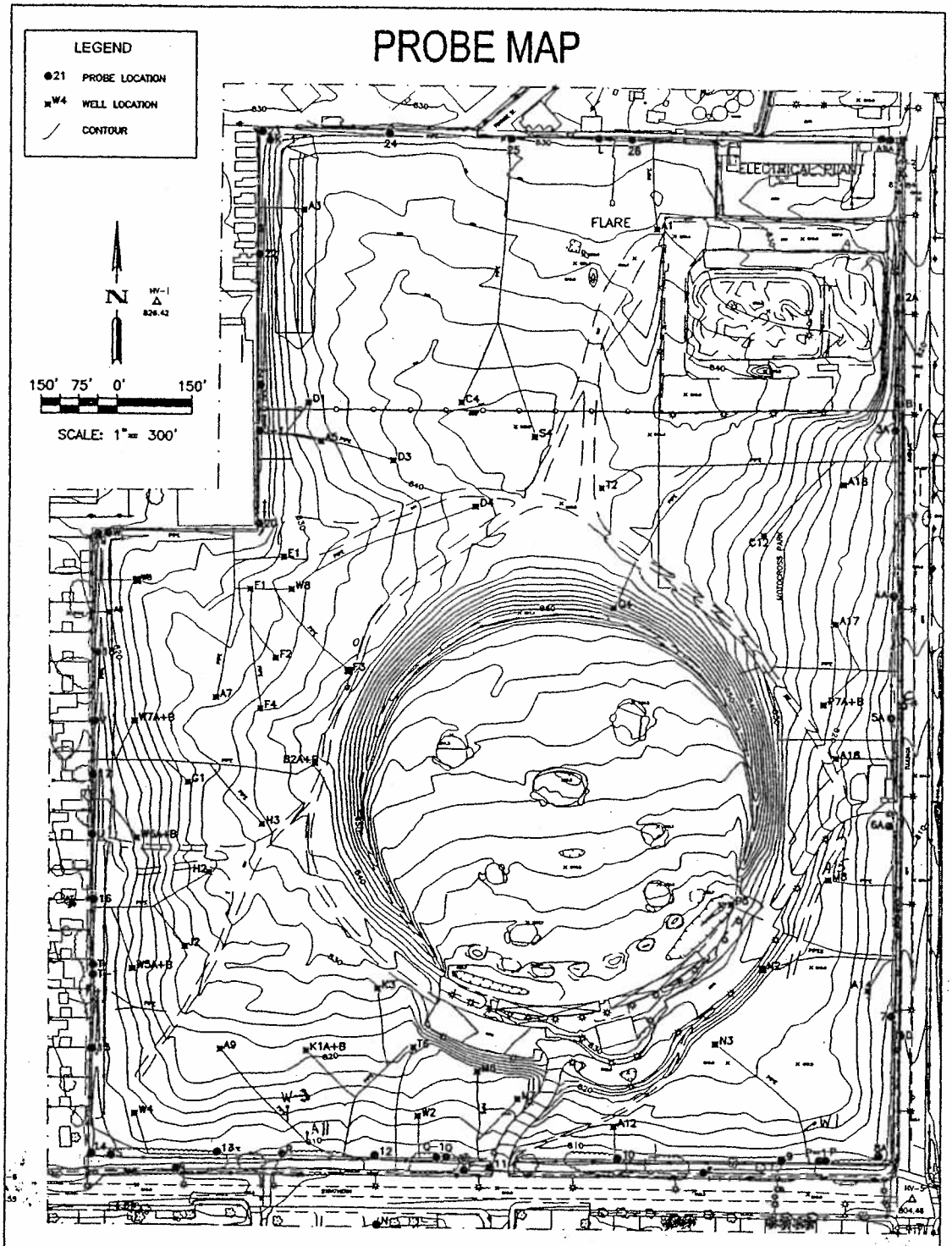

Exhibit 2.1

TERRA-PETRA
INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 458-0494
Fax: (909) 624-8834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

Penrose Landfill
8301 Tujunga Ave.
Sun Valley, California 91352
Tel: (323) 875-1095 Fax (818) 768-6039

JOB NAME: **PENROSE**

DATE: 10/11/2005

JOB No.: TP481

GAS CONCENTRATIONS

TIME	1530 hr.
INITIALS	ATF
INSTRUMENT	GEM 2000
PARAMETER	% Vol.

REMARKS: Landtec GEM 2000 last field calibrated on 10-11-05 (with 50% CH_4, 35% CO_2, and 4% O_2 calibrant). One exceedance. Three other detections. P = plugged D = damaged (or destroyed) (at L, tubing broken off at depth)

Probe #	CH_4	Remarks	Probe #		CH_4	Remarks	Probe #		CH_4	Remarks
1	ND		A-1		ND		R	10'	ND	
2A	ND		B		ND			40'	ND	
3A	ND		C	GREEN-21'	ND			80'	ND	
4A	ND			YELLOW-41'	ND			120'	ND	
5A	ND			RED-81'	ND		S	10'	ND	
6A	ND		D		ND			40'	ND	
7A	ND		E		3.8			80'	ND	
8A	ND		F		1.1			120'	ND	
9	ND		G		ND		T	10'	ND	
10	ND		J-1		ND			40'	ND	
11	ND		K-1		ND			73'	P	
12	ND		L	GREEN-45'	3		T-1	72'	ND	
13	ND			YELLOW-65'	P		U	10'	ND	
14	ND			ORANGE-85'	D	broke		37'	ND	
15	ND			RED - 105'	D	broke		68'	ND	
16	ND		N	GREEN-22'	ND		V	10'	ND	
17	ND			YELLOW-45'	ND			40'	ND	
18	ND			ORANGE-68'	ND			73'	ND	
19	ND			RED - 90'	ND		W	10'	ND	
20	ND		P	10'	ND			40'	ND	
21A	ND			40'	ND			80'	ND	
22	ND			80'	ND			120'	ND	
23	ND		P-1	120'	ND			158'	ND	
24	ND		Q	10'	10.8					
25	ND			40'	ND					
26	ND			75'	ND					
			Q-1	120'	ND					
				158'	ND					

NOTES:
Exhibit 2.2.1

rev. 10/12/05, tp481log.024/atf

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INSPECTION REPORT

PENROSE LANDFILL

Project: PENROSE Date: 10-19-05

Task: Time: 3:00 PM

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☑ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS: PROBE READING WITH GAS TECH NP-204

4=ND	5=ND	9=ND	20=ND
E=ND	D=ND		
P=10'=ND	40'=ND	80=ND	P1=ND
Q=10'=ND	40=ND	80'=ND	
R=10=ND	40=ND	80=ND	
T=10=ND	40'=ND	80'=ND	
U=10=ND	37'=ND	68=ND	
V=10=ND	40'=ND	73=ND	

Prepared by: [signature] Checked by:

Exhibit 2.2.2

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE:

Probe #	Depth	Time on	Time off	VOC (% V)	REMARKS Page 2
A-1		ND	1:15	1:16	10/27/05
B		ND	1:50	1:51	10/28/05
C	GREEN-21'	ND	9:50.46	9:51.47	10/27/05
	YELLOW-41'		9:47.58	9:49.40	
	RED - 81'		9:49.52	9:50.17	2 Pumps
D		1%	1:20	1:22	10/27/05
E		7%	1:25	1:26	
F		ND	1:30	1:31	
G		ND	1:33	1:35	
J-1		ND	4:56.42	4:57.38	10/26/05
K-1		ND	4:47.14	4:48.12	10/26/05
L	GREEN-45'	ND	1:40	1:41	10/27/05
	YELLOW-65'	ND	1:42	1:43	
	ORANGE-85'	ND	1:44	1:45	
	RED - 105'	ND	1:46	1:47	
N	GREEN-22'	ND	5:09.40	5:11.57	10/26/05
	YELLOW-45'	ND	5:08.50	5:09.21	3 Pumps
	ORANGE-68'	1%	5:14.14	5:15.58	
	RED - 90'	ND	5:12.24	5:13.49	
P	10'		2:25.58	2:26.52	
	40'		2:25.05	2:25.43	
	80'		2:23.53	2:24.42	
P-1	120'		2:27.09	2:28.39	
Q	10'	22%	2:38.21	2:40.07	
	40'	7%	2:40.12	2:41.20	
	75'	ND	2:41.52	2:42.40	
Q-1	120'		2:43.08	2:43.46	
	158'		2:44.11	2:44.49	

Exhibit 2.2.3: Sheet 1 of 2

CONFIDENTIAL

PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE:

Probe #	Depth	Time on	Time off	VOC (%V)	REMARKS Page 3
R	10'	2:50.01	2:50.39	ND	10/26/05
	40'	2:51.03	2:51.58		
	80'	2:48.57	2:49.49		
	120'	2:52.13	2:52.52		
S	10'	3:01.59	3:02.34		
	40'	3:00.48	3:01.48		
	80'	3:02.42	3:03.26		
	120'	3:03.40	3:04.33		
T	10'	3:11.55	3:12.39		
	40'	3:12.41	3:13.39		
	73'	3:11.25	3:11.44		3 Pumps
T-1	72'	3:09.59	3:10.52		
U	10'	3:19.33	3:20.06		
	37'	3:18.24	3:19.04	4%	
	68'	3:16.54	3:17.59	11%	
V	10'	3:25.50	3:26.40	ND	
	40'	3:26.51	3:27.22	ND	
	73'	3:24.23	3:25.11	6%	
W	10'	3:33.58	3:34.47	ND	
	40'	3:35.51	3:36.39		
	80'	3:34.58	3:35.40		
	120'	3:36.57	3:37.46		
	158'	3:32.58	3:33.45		

NOTES:

Exhibit 2.2.3: Sheet 2 of 2 10/26/05 - Not very clear - Hazy - Cool temp - ground was moist - - green grass -

Rev 08-09-05 tp152bl.011

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INCORPORATED

INSPECTION REPORT

PENROSE LANDFILL

Project: PENROSE Date: 10 - 31 - 05

Task: Time: 1:30 PM

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☑ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS: PROBE READING WITH GAS TECH NP-204

4=ND 5=ND 6=ND 20=ND 24=ND
25=ND D=ND E=ND J1=ND
P=10'=ND 40'=ND 80=ND P1=ND
Q=10'=ND 40'=ND 80'=ND
R=10'=ND 40'=ND 80'=ND R1=ND
T=10'=ND 40'=ND 80'=ND
T1=ND
U=10'=ND 37'=ND 68'=ND
V=10'=ND 40'=ND 73'=ND

Prepared by: Checked by:

Exhibit 2.2.4

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Penrose Landfill 8301 Tujunga Ave. Sun Valley, California 91352	JOB NAME **PENROSE**	DATE 11/7/2005 JOB No. TP481

GAS CONCENTRATIONS

TIME	1030 hr.	**REMARKS:** Landtec GEM 2000 last field calibrated on 11-06-05
INITIALS	ATF	(with 50% CH_4, 35% CO_2, and 4% O_2 calibrant).
INSTRUMENT	GEM 2000	Two exceedances. Six other detections. P = plugged
PARAMETER	% Vol.	at L at 85' tubing broken off at depth (apparently a good reading)

Probe #	CH_4	Remarks	Probe #		CH_4	Remarks	Probe #		CH_4	Remarks
1	ND		A-1		ND		R	10'	ND	
2A	ND		B		ND			40'	ND	
3A	ND		C	GREEN-21'	ND			80'	ND	
4A	ND			YELLOW-41'	ND			120'	ND	
5A	ND			RED-81'	ND	hard draw	S	10'	ND	
6A	ND		D		ND			40'	ND	
7A	ND		E		ND			80'	ND	
8A	ND		F		ND			120'	ND	
9	ND		G		ND		T	10'	ND	
10	ND		J-1		ND			40'	ND	
11	ND		K-1		ND			73'	ND	hard draw
12	ND		L	GREEN-45'	1.2		T-1	72'	ND	
13	ND			YELLOW-65'	P		U	10'	ND	
14	ND			ORANGE-85'	0.8	detached		37'	0.5	
15	ND			RED - 105'	0.7			68'	0.1	
16	ND		N	GREEN-22'	ND		V	10'	ND	
17	ND			YELLOW-45'	ND			40'	ND	
18	ND			ORANGE-68'	ND			73'	6.5	
19	ND			RED - 90'	ND		W	10'	ND	
20	ND		P	10'	0.6			40'	ND	
21A	ND			40'	ND			80'	ND	
22	ND			80'	ND			120'	ND	
23	ND		P-1	120'	ND			158'	ND	
24	ND		Q	10'	ND					
25	ND			40'	10.2					
26	ND			75'	ND					
			Q-1	120'	ND					
				158'	ND					

NOTES:

Exhibit 2.2.5

rev. 11/07/05, tp481log.025/atf

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Claremont, CA 91711-2777
e-mail havery@terra-petra.com

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INSPECTION REPORT

PENROSE LANDFILL

Project: PENROSE Date: 11-10-05

Task: Time: 2:00 PM

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☑ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS: Took PROBE READING WITH GAS TECH NO=204

Q=10'=ND 40'=4% 80'=ND
V=10=ND 40=ND 73'=ND

Prepared by: [signature] Checked by:

Exhibit 2.2.6

CONFIDENTIAL

STATE OF CALIFORNIA
CIWMB-188 (New 6/04)

Closed Disposal Site Inspection Report

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Enforcement Agency: City of Los Angeles

FACILITY FILE NUMBER/Unit #	PROGRAM CODE LOCAL = L STATE = S	INSPECTION DATE MM	DD	YY	TIME IN	INSPECTION TIME
19 - AR - 0006	L	11	22	05	11:32 AM / TIME OUT 1:53 PM	approx. 2.3 hrs.

FACILITY NAME	Penrose Landfill	RECEIVED BY (OPERATOR)	
FACILITY LOCATION	8300 Tujunga Avenue, Sun Valley, CA 91352	OWNER	Los Angeles By-Products Co.
INSPECTOR C. Lin	INSPECTOR SIGNATURE	ALSO PRESENT	

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 30 OF THE PUBLIC RESOURCES CODE (PRC) AND TITLE 27 CALIFORNIA CODE OF REGULATION (CCR).

THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING: V = VIOLATION A = AREA OF CONCERN NA = NOT APPLICABLE

POSTCLOSURE	V	A	NA
20750 - SITE MAINTENANCE			
21180 - POSTCLOSURE MAINTENANCE			
21190 - POSTCLOSURE LAND USE			
GAS MONITORING AND CONTROL SYSTEMS			
20918 - EXEMPTIONS			
20919 - GAS CONTROLS			
20919.5 - EXPLOSIVE GAS CONTROL			
20921 - GAS MONITORING/CONTROL			
20923 - MONITORING			
20925 - PERIMETER MONITORING NETWORK			
20931 - STRUCTURE MONITORING			
20932 - MONITORED PARAMETERS			
20933 - MONITORING FREQUENCY			
20934 - REPORTING			
20937 - CONTROL			
GRADING/FINAL COVER			
20650 - GRADING OF FILL SURFACES			
21140 - FINAL COVER			
21142 - FINAL GRADING			
21145 - SLOPE STABILITY			

DRAINAGE AND EROSION CONTROL	V	A	NA
20820 - DRAINAGE/EROSION CONTROL			
21150 - DRAINAGE/EROSION CONTROL			
MONITORING AND CONTROL SYSTEMS			
20790 - LEACHATE CONTROL			
20830 - LITTER CONTROL			
21160 - LF GAS CONTROL/LEACHATE CONTACT			
SECURITY			
20530 - SITE SECURITY			
21135 - SECURITY AT CLOSED SITES			
21137 - STRUCTURE REMOVAL			
RECORDS			
21130 - EMERGENCY RESPONSE PLAN			
21170 - RECORDING			
21200 - CHANGE OF OWNERSHIP			
CLOSURE PLANS			
21880 - CERTIFICATION OF CLOSURE			
21890 - REVISION OF APPROVED PLANS FOR C/PC MAINT			
OTHER			

COMMENTS (USE CIWMB 3 FOR ADDITIONAL SPACE)

Violation - CCR 27, Article 6, section 20919.5. Explosive Gases Control. Gas probes U-68' and P-10' each had methane readings of 5.4%. The operator was notified of the gas readings that the LEA got on the gas meter. All other randomly tested gas probes were below 5% methane.

Comment - The operator has been experiencing some difficulty keeping gas levels below 5% in the probes. The operator has been diligent about calling the LEA if they get gas readings above 5% when they are conducting their regular sampling events. They are also working closely with the gas contractor to try to remedy this issue. The operator needs to continue to monitor the site to ensure compliance with the regulations.

Observations:

1. The front of the facility is neat and clean.
2. The vegetation at the site has been neatly trimmed. Gas lines and wells are easily visible.
3. No litter seen. The property fence line was clean of litter, trash, and debris.
4. Landfill gas monitoring, using the Landtec GA-90, was conducted alongside the operator's technician. Meter was field calibrated with 2.5% CH4 calibration gas mixture. Readings listed below are from the LEA gas meter.

Q @ 10'	0% CH4
Q @ 40'	2.9% CH4
Q @ 80'	0.1% CH4
Q' @ 120'	0% CH4
Q' @ 150'	0% CH4

R @ 10'	0.1% CH4
R @ 40'	0% CH4
R @ 80'	0.1% CH4
R @ 120'	0.1% CH4
D	3.50%
E	1.40%

S @ 10'	0.1% CH4
S @ 40'	0% CH4
S @ 80'	0.1% CH4
S @ 120'	0% CH4

Exhibit 2.2.7: Sheet 1 of 2

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DEC 08 2005
L.A. BY-PROD. CO.

01/25/2006 16:40 FAX 562 431 5110 L.A. BY-PRODUCTS CO. 001

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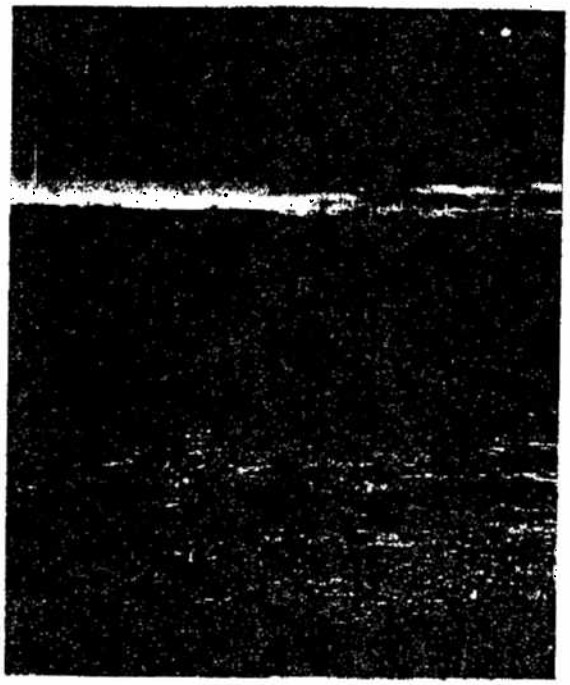
Exhibit 2.2.7: Sheet 2 of 2

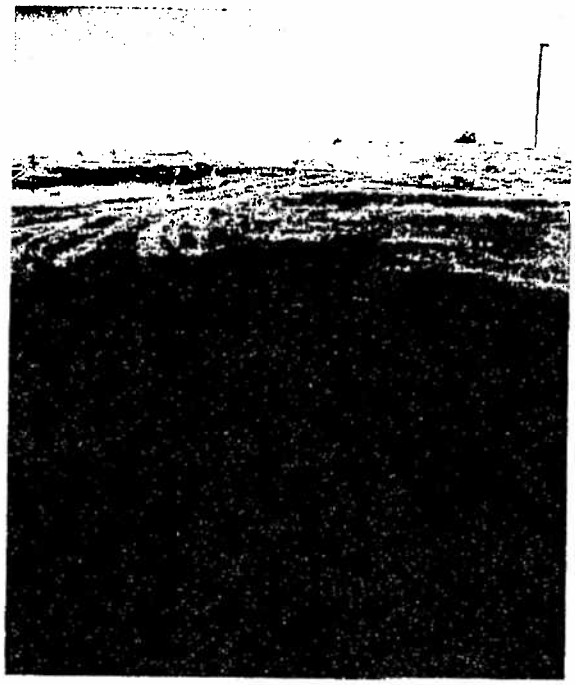
U @ 10'	0.1% CH4
U @ 37'	1.2% CH4
U @ 68'	5.4% CH4
P @ 10'	5.4% Ch4
P @ 40'	0.2% CH4
P @ 80'	0% CH4

V @ 10'	0.1% CH4
V @ 40'	0.1% CH4
V @ 80'	0.8% CH4

W @ 10'	0.1% CH4
W @ 40'	0% CH4
W @ 80'	0% CH4
W @ 120'	0% CH4
W @ 150'	0% CH4

Clean fence lines.





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01/25/2006 16:41 FAX 562 431 5140 L.A. BY-PRODUCTS CO. 002

CONFIDENTIA

TERRA-PETRA
INCORPORATED

INSPECTION REPORT

PENROSE LANDFILL

Project: PenRose Date: 11-28-05

Task: Time: 1:30 PM

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☑ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS: PROBE READING WITH GAS TECH NP-204

20=ND	24=ND	D=ND	E=ND	F=ND
P=10'=ND	40'=ND	80'=ND	P1=ND	
Q=10'=ND	40'=ND	80'=ND		
U=10'=ND	37'=ND	65'=ND		
V=10'=ND	40'=ND	73=ND		

Prepared by: Checked by:

Exhibit 2.2.8

Penrose Landfill
8301 Tujunga Ave.
Sun Valley, California 91352
Tel: (323) 875-1095 Fax (818) 768-6039

JOB NAME
PENROSE

DATE 12/6/2005
JOB No. TP481

GAS CONCENTRATIONS

TIME	1200 hr.
INITIALS	ATF
INSTRUMENT	GEM 2000
PARAMETER	% Vol.

REMARKS: Landtec GEM 2000 last field calibrated on 12-05-05 (with 50% CH_4, 35% CO_2, and 4% O_2 calibrant). One exceedance. Seven other detections. P = plugged a = GEM 2000 flow blockage after about 1 minute of monitoring

Probe #	CH_4	Remarks
1	ND	
2A	ND	
3A	ND	
4A	ND	
5A	ND	
6A	ND	
7A	ND	
8A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	ND	
21A	ND	
22	ND	
23	ND	
24	ND	
25	ND	
26	ND	

Probe #		CH_4	Remarks
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	hard draw
	RED-81'	P	no flow a
D		ND	
E		0.6	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	0.9	
	YELLOW-65'	P	no flow a
	ORANGE-85'	0.8	
	RED - 105'	0.8	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	1.2	
	40'	ND	
	80'	ND	
P-1	120'	0.4	
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

Probe #		CH_4	Remarks
R	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
S	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
T	10'	ND	
	40'	ND	
	73'	ND	hard draw
T-1	72'	ND	
U	10'	ND	
	37'	1.5	
	68'	9.6	
V	10'	ND	
	40'	ND	
	73'	ND	
W	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
	158'	ND	

NOTES:

Exhibit 2.2.9

rev. 12/06/05, tp481log.026/atf

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CONFIDENTIA

TERRA-PETRA
INCORPORATED

INSPECTION REPORT

PENROSE LANDFILL

Project: PENROSE Date: 12-10-05

Task: Time: 2:00 PM

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☑ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS: PROBE READING WITH GAS TECH NP#204

20=ND 24=ND
P=10'=ND 40'=ND 80'=ND P1=ND
Q=10'=ND 40'=ND 80'=ND
U=10'=ND 37'=ND 68'=ND

Prepared by: Checked by:

Exhibit 2.2.10

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products		Date Received:	01/06/06
4050 Katella Avenue, Suite 209		Work Order No:	06-01-0261
Los Alamitos, CA 90720-3482		Preparation:	N/A
		Method:	EPA TO-14A
		Units:	ppb (v/v)
Project: Penrose Landfill			Page 2 of 5

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
H4	06-01-0261-3	01/06/06	Air	N/A	01/07/06	060107L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.5	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	3.3	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	10	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	14	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	57-129		1,2-Dichloroethane-d4	124	47-137	
Toluene-d8	111	78-156					

Q10	06-01-0261-4	01/06/06	Air	N/A	01/07/06	060107L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.84	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	7.8	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	4.7	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	13	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	9.6	0.5	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	86	57-129		1,2-Dichloroethane-d4	124	47-137	
Toluene-d8	106	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Exhibit 2.3: Sheet 1 of 4

CONFIDENTIA

Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	01/06/06
Work Order No:	06-01-0261
Preparation:	N/A
Method:	EPA TO-14A
Units:	ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D40	06-01-0261-5	01/06/06	Air	N/A	01/07/06	060107L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.3	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	7.6	0.5	1	
Chloroform	15	0.50	1		p/m-Xylene	23	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	5.5	0.5	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	22	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	83	57-129		1,2-Dichloroethane-d4	111	47-137	
Toluene-d8	110	78-156					

	06-01-0261-6	01/06/06	Air	N/A	01/09/06	060109L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.9	2.0	4		1,3-Dichlorobenzene	ND	2.0	4	
Benzyl Chloride	ND	4.0	4		1,4-Dichlorobenzene	ND	2.0	4	
Carbon Tetrachloride	ND	2.0	4		Methylene Chloride	ND	8.0	4	
Chlorobenzene	ND	2.0	4		o-Xylene	10	2	4	
Chloroform	3.1	2.0	4		p/m-Xylene	32	4	4	
1,1-Dichloroethane	ND	2.0	4		Tetrachloroethene	2.1	2.0	4	
1,1-Dichloroethene	ND	2.0	4		Toluene	32	2	4	
1,2-Dibromoethane	ND	2.0	4		Trichloroethene	ND	2.0	4	
1,2-Dichlorobenzene	ND	2.0	4		1,1,1-Trichloroethane	ND	2.0	4	
1,2-Dichloroethane	ND	2.0	4		Vinyl Chloride	ND	2.0	4	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	105	57-129		1,2-Dichloroethane-d4	96	47-137	
Toluene-d8	99	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Exhibit 2.3: Sheet 2 of 4

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482		Date Sampled: Date Received: Date Analyzed:	01/06/06 01/06/06 01/06/06
Attn: Robert McAllister RE: Penrose Landfill		Work Order No.: Method: Page 1 of 1	06-01-0261 EPA 16

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	70	2
G4	ND	1
H4	ND	1
Q10'	ND	1
Q40'	ND	1
E	ND	1
U68'	ND	1
V70'	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
06-01-0261-1	69.6	75.1	8	0 - 15

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Exhibit 2.3: Sheet 4 of 4

EXHIBIT 3

PENROSE LANDFILL - Fourth Quarter 2005

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 3)

Exhibit 3.2: ILSS TAC Laboratory Results – January 6, 06: Samples G4 & H4

Hydrogen Sulfide and TO-14A Analyses

INTEGRATED SAMPLING ROUTE 3

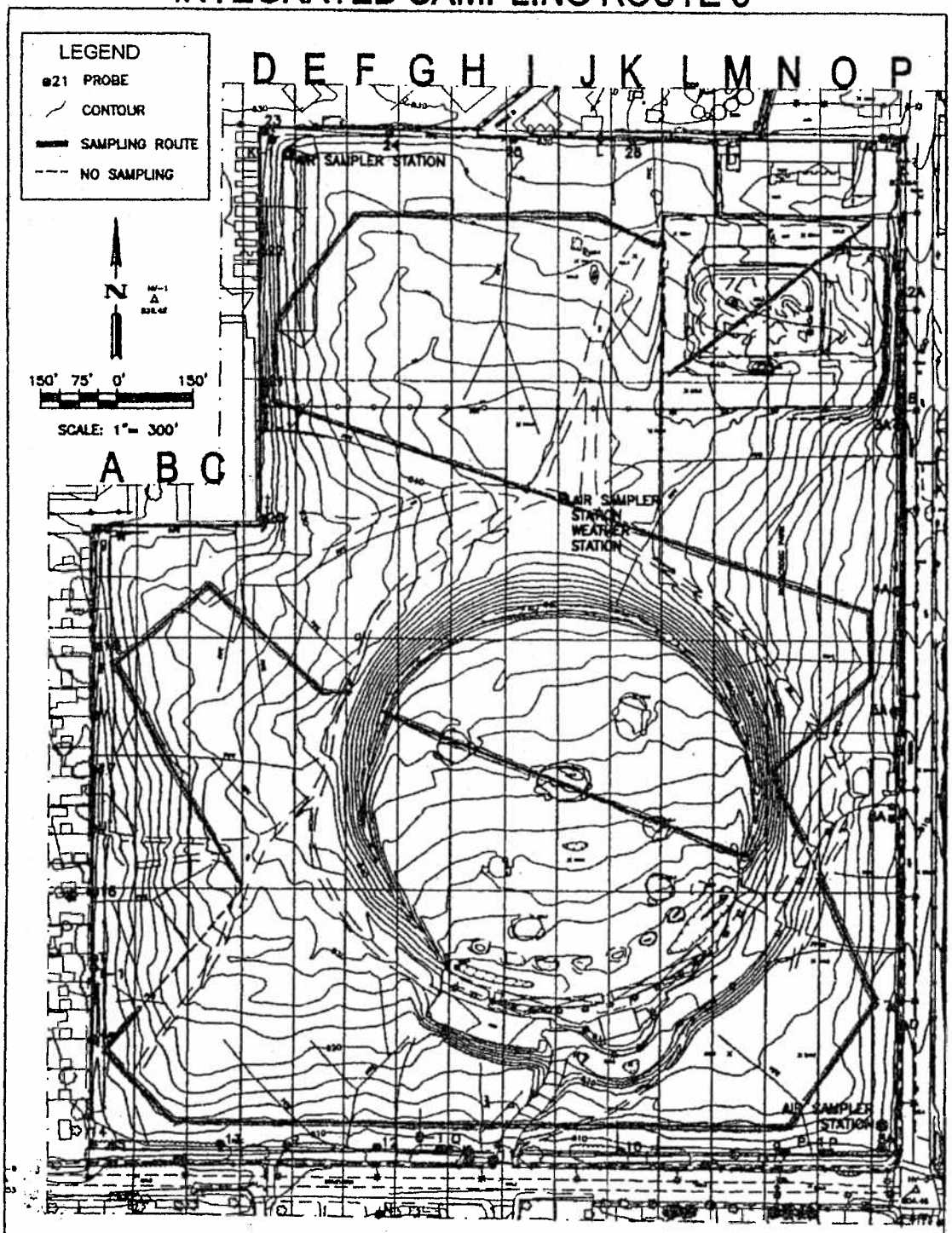

Exhibit 3.1

TERRA-PETRA
INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 458-0494
Fax: (909) 624-8834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products		Date Received:	01/06/06
4050 Katella Avenue, Suite 209		Work Order No:	06-01-0261
Los Alamitos, CA 90720-3482		Preparation:	N/A
		Method:	EPA TO-14A
		Units:	ppb (v/v)
Project: Penrose Landfill			Page 1 of 5

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
G1	06-01-0261-1	01/05/06	Air	N/A	01/09/06	060109L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1900	100	200		1,3-Dichlorobenzene	ND	100	200	
Benzyl Chloride	ND	200	200		1,4-Dichlorobenzene	360	100	200	
Carbon Tetrachloride	ND	100	200		Methylene Chloride	760	400	200	
Chlorobenzene	620	100	200		o-Xylene	2500	100	200	
Chloroform	ND	100	200		p/m-Xylene	5500	200	200	
1,1-Dichloroethane	ND	100	200		Tetrachloroethene	ND	100	200	
1,1-Dichloroethene	ND	100	200		Toluene	7600	100	200	
1,2-Dibromoethane	ND	100	200		Trichloroethene	ND	100	200	
1,2-Dichlorobenzene	ND	100	200		1,1,1-Trichloroethane	ND	100	200	
1,2-Dichloroethane	ND	100	200		Vinyl Chloride	230	100	200	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	111	57-129		1,2-Dichloroethane-d4	104	47-137	
Toluene-d8	99	78-156					

G4	06-01-0261-2	01/05/06	Air	N/A	01/07/06	060107L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.6	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	4.4	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	14	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	17	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	90	57-129		1,2-Dichloroethane-d4	124	47-137	
Toluene-d8	109	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Exhibit 3.2: Sheet 1 of 3

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products		Date Received:	01/06/06
4050 Katella Avenue, Suite 209		Work Order No:	06-01-0261
Los Alamitos, CA 90720-3482		Preparation:	N/A
		Method:	EPA TO-14A
		Units:	ppb (v/v)
Project: Penrose Landfill			Page 2 of 5

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
H4	06-01-0261-3	01/06/06	Air	N/A	01/07/06	060107L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.5	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	3.3	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	10	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	14	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	57-129		1,2-Dichloroethane-d4	124	47-137	
Toluene-d8	111	78-156					

Q10	06-01-0261-4	01/06/06	Air	N/A	01/07/06	060107L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.84	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	7.8	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	4.7	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	13	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	9.6	0.5	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	86	57-129		1,2-Dichloroethane-d4	124	47-137	
Toluene-d8	106	78-156					

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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Exhibit 3.2: Sheet 2 of 3

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482		Date Sampled: Date Received: Date Analyzed:	01/06/06 01/06/06 01/06/06
Attn: Robert McAllister RE: Penrose Landfill		Work Order No.: Method: Page 1 of 1	06-01-0261 EPA 16

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	70	2
G4	ND	1
H4	ND	1
Q10'	ND	1
Q40'	ND	1
E	ND	1
U68'	ND	1
V70'	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
06-01-0261-1	69.6	75.1	8	0 - 15

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Exhibit 3.2: Sheet 3 of 3

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EXHIBIT 4

PENROSE LANDFILL - Fourth Quarter 2005

Ambient Air Sampling (AAS) Documentation

Ambient Air Sample Laboratory Results

AAS TAC Laboratory Results - December 30, 05 - Samples AAS-SE1, AAS-NW1, AAS-SE2, and AAS-NW2

TO-14A Analyses

Calscience
Environmental
Laboratories, Inc.

January 10, 2006

Robert McAllister
L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.: 05-12-1610**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/30/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Ranjit K. K. Clarke

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 12/30/05
Work Order No: 05-12-1610
Preparation: N/A
Method: EPA TO-3(M)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS/SF1	**05-12-1610-1**	**12/30/05**	**Air**	**N/A**	**12/30/05**	**051230L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5.1	1.7		ppm (v/v)

AAS/NW1	**05-12-1610-2**	**12/30/05**	**Air**	**N/A**	**12/30/05**	**051230L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	6.9	2.3		ppm (v/v)

AAS/SF2	**05-12-1610-3**	**12/30/05**	**Air**	**N/A**	**12/30/05**	**051230L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	4.9	1.64		ppm (v/v)

AAS/NW2	**05-12-1610-4**	**12/30/05**	**Air**	**N/A**	**12/30/05**	**051230L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	5.1	1.71		ppm (v/v)

Method Blank	**098-01-005-447**	**N/A**	**Air**	**N/A**	**12/30/05**	**051230L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	3.0	1		ppm (v/v)

RL - Reporting Limit . DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 12/30/05
Work Order No: 05-12-1610
Preparation: N/A
Method: EPA TO-14A
Units: ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS/SE1	05-12-1610-1	12/30/05	Air	N/A	12/31/05	051231L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1.4	0.8	1.7		1,3-Dichlorobenzene	ND	0.85	1.7	
Benzyl Chloride	ND	1.7	1.7		1,4-Dichlorobenzene	ND	0.85	1.7	
Carbon Tetrachloride	ND	0.85	1.7		Methylene Chloride	ND	3.4	1.7	
Chlorobenzene	ND	0.85	1.7		o-Xylene	0.93	0.85	1.7	
Chloroform	ND	0.85	1.7		p/m-Xylene	2.4	1.7	1.7	
1,1-Dichloroethane	ND	0.85	1.7		Tetrachloroethene	ND	0.85	1.7	
1,1-Dichloroethene	ND	0.85	1.7		Toluene	3.9	0.8	1.7	
1,2-Dibromoethane	ND	0.85	1.7		Trichloroethene	ND	0.85	1.7	
1,2-Dichlorobenzene	ND	0.85	1.7		1,1,1-Trichloroethane	ND	0.85	1.7	
1,2-Dichloroethane	ND	0.85	1.7		Vinyl Chloride	ND	0.85	1.7	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	88	57-129		1,2-Dichloroethane-d4	109	47-137	
Toluene-d8	110	78-156					

AAS/NW1	05-12-1610-2	12/30/05	Air	N/A	12/31/05	051231L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.2	2.3		1,3-Dichlorobenzene	ND	1.2	2.3	
Benzyl Chloride	ND	2.3	2.3		1,4-Dichlorobenzene	ND	1.2	2.3	
Carbon Tetrachloride	ND	1.2	2.3		Methylene Chloride	ND	4.6	2.3	
Chlorobenzene	ND	1.2	2.3		o-Xylene	ND	1.2	2.3	
Chloroform	ND	1.2	2.3		p/m-Xylene	ND	2.3	2.3	
1,1-Dichloroethane	ND	1.2	2.3		Tetrachloroethene	ND	1.2	2.3	
1,1-Dichloroethene	ND	1.2	2.3		Toluene	2.9	1.2	2.3	
1,2-Dibromoethane	ND	1.2	2.3		Trichloroethene	ND	1.2	2.3	
1,2-Dichlorobenzene	ND	1.2	2.3		1,1,1-Trichloroethane	ND	1.2	2.3	
1,2-Dichloroethane	ND	1.2	2.3		Vinyl Chloride	ND	1.2	2.3	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	88	57-129		1,2-Dichloroethane-d4	109	47-137	
Toluene-d8	102	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 12/30/05
Work Order No: 05-12-1610
Preparation: N/A
Method: EPA TO-14A
Units: ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS/SF2	05-12-1610-3	12/30/05	Air	N/A	12/31/05	051231L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1.2	0.8	1.64		1,3-Dichlorobenzene	ND	0.82	1.64	
Benzyl Chloride	ND	1.6	1.64		1,4-Dichlorobenzene	ND	0.82	1.64	
Carbon Tetrachloride	ND	0.82	1.64		Methylene Chloride	ND	3.3	1.64	
Chlorobenzene	ND	0.82	1.64		o-Xylene	ND	0.82	1.64	
Chloroform	ND	0.82	1.64		p/m-Xylene	1.9	1.6	1.64	
1,1-Dichloroethane	ND	0.82	1.64		Tetrachloroethene	ND	0.82	1.64	
1,1-Dichloroethene	ND	0.82	1.64		Toluene	3.3	0.8	1.64	
1,2-Dibromoethane	ND	0.82	1.64		Trichloroethene	ND	0.82	1.64	
1,2-Dichlorobenzene	ND	0.82	1.64		1,1,1-Trichloroethane	ND	0.82	1.64	
1,2-Dichloroethane	ND	0.82	1.64		Vinyl Chloride	ND	0.82	1.64	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	57-129		1,2-Dichloroethane-d4	117	47-137	
Toluene-d8	103	78-156					

AAS/NW2	05-12-1610-4	12/30/05	Air	N/A	01/04/06	060104L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1.2	0.9	1.71		1,3-Dichlorobenzene	ND	0.86	1.71	
Benzyl Chloride	ND	1.7	1.71		1,4-Dichlorobenzene	ND	0.86	1.71	
Carbon Tetrachloride	ND	0.86	1.71		Methylene Chloride	ND	3.4	1.71	
Chlorobenzene	ND	0.86	1.71		o-Xylene	ND	0.86	1.71	
Chloroform	ND	0.86	1.71		p/m-Xylene	2.4	1.7	1.71	
1,1-Dichloroethane	ND	0.86	1.71		Tetrachloroethene	ND	0.86	1.71	
1,1-Dichloroethene	ND	0.86	1.71		Toluene	4.3	0.9	1.71	
1,2-Dibromoethane	ND	0.86	1.71		Trichloroethene	ND	0.86	1.71	
1,2-Dichlorobenzene	ND	0.86	1.71		1,1,1-Trichloroethane	ND	0.86	1.71	
1,2-Dichloroethane	ND	0.86	1.71		Vinyl Chloride	ND	0.86	1.71	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	88	57-129		1,2-Dichloroethane-d4	109	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 12/30/05
Work Order No: 05-12-1610
Preparation: N/A
Method: EPA TO-14A
Units: ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**095-01-021-3,572**	**N/A**	**Air**	**N/A**	**12/31/05**	**051231L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	57-129		1,2-Dichloroethane-d4	118	47-137	
Toluene-d8	102	78-156					

Method Blank	**095-01-021-3,577**	**N/A**	**Air**	**N/A**	**01/04/06**	**060104L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	57-129		1,2-Dichloroethane-d4	101	47-137	
Toluene-d8	97	78-156					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 12/30/05
Work Order No: 05-12-1610
Preparation: N/A
Method: EPA TO-3(M)

Project: Penrose Landfill

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
05-12-1593-1	Air	GC 13	N/A	12/30/05	051230D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	75	72	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: N/A
Work Order No: 05-12-1610
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-3,577	Air	GC/MS II	N/A	01/04/06	060104L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	113	101	60-156	11	0-40	
Carbon Tetrachloride	113	112	64-154	2	0-32	
1,2-Dibromoethane	91	87	54-144	4	0-36	
1,2-Dichlorobenzene	87	96	34-160	10	0-47	
1,2-Dichloroethane	124	109	69-153	13	0-30	
1,2-Dichloropropane	125	113	67-157	9	0-35	
1,4-Dichlorobenzene	94	95	36-156	1	0-47	
c-1,3-Dichloropropene	110	100	61-157	10	0-35	
Ethylbenzene	95	89	52-154	7	0-38	
o-Xylene	97	91	52-148	6	0-38	
p/m-Xylene	89	84	42-156	6	0-41	
Tetrachloroethene	89	83	56-152	8	0-40	
Toluene	91	86	56-146	6	0-43	
Trichloroethene	118	106	63-159	11	0-34	
1,1,2-Trichloroethane	112	113	65-149	1	0-37	
Vinyl Chloride	109	84	45-177	25	0-36	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: N/A
Work Order No: 05-12-1610
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-3,572	Air	GC/MS II	N/A	12/31/05	051231L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	110	111	60-156	1	0-40	
Carbon Tetrachloride	133	136	64-154	2	0-32	
1,2-Dibromoethane	91	88	54-144	4	0-36	
1,2-Dichlorobenzene	79	77	34-160	2	0-47	
1,2-Dichloroethane	140	141	69-153	1	0-30	
1,2-Dichloropropane	117	118	67-157	1	0-35	
1,4-Dichlorobenzene	78	76	36-156	3	0-47	
c-1,3-Dichloropropene	107	109	61-157	2	0-35	
Ethylbenzene	93	87	52-154	7	0-38	
o-Xylene	90	86	52-148	5	0-38	
p/m-Xylene	85	81	42-156	6	0-41	
Tetrachloroethene	95	87	56-152	9	0-40	
Toluene	91	87	56-146	4	0-43	
Trichloroethene	119	121	63-159	2	0-34	
1,1,2-Trichloroethane	115	117	65-149	2	0-37	
Vinyl Chloride	100	103	45-177	3	0-36	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-12-1610

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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1610

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 12-30-05

Zuma or Bag (I.D.#)	AAS SE1	AAS NW1	AAS SE2	AAS NW2						
Condition Received in Lab*	15 psi	18	7 psi	10 psi						

Analyses Requested: TO14A, H_2S, TPH gas or FID for VOC

Zuma or Bags Prepared By: [illegible] Time: 1040

Date: 12-30-05

Zuma or Bags Taken Out By: [illegible] Time: 1045

Zuma or Bags Taken to Lab By: [illegible] Time: 1045

Zuma or Bags Received In Lab By: [illegible] Time: 1325

* Zuma Canisters final pressure reading, or

Bags: F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

tp152coc.608

EXHIBIT 4: Sheet 11 of 12

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05-1210-1610

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: LA by Prelogic

DATE: 12/30/05

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ____ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ✓ Ambient temperature.
- ____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact): ____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

Hydrogen Sulfide (H_2S) could not be performed on these samples since they were collected in summa canisters.

EXHIBIT 4: Sheet 12 of 12

Enclosures: for Fourth Quarter 2005, Penrose LF, Compliance Report (# of pages)

EXHIBIT 1 - Control Device Laboratory Results Sheet 1 of 10 (1)

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – Jan. 6, 06 (9)

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation (1)

Exhibit 2.1: Probe Location Map (1)

Exhibit 2.2: Probe Monitoring Exceedances and Follow-up Monitoring Results

Exhibit 2.2.1: LEA required Probe Monitoring Results – Oct. 11, 05 (1)

Exhibit 2.2.2: Follow-up Monitoring Results – Oct. 18, 05 (1)

Exhibit 2.2.3: SRBPM Monitoring Results (pages 2 and 3) – Oct. 26, 27, 28, 05 (2)

Exhibit 2.2.4: Follow-up Monitoring Results – Oct. 31, 05 (1)

Exhibit 2.2.5: LEA required Probe Monitoring Results – Nov. 7, 05 (1)

Exhibit 2.2.6: Follow-up Monitoring Results – Nov. 10, 05 (1)

Exhibit 2.2.7: LEA Inspection Report – Nov. 22, 05 (2)

Exhibit 2.2.8: Follow-up Monitoring Results – Nov. 28, 05 (1)

Exhibit 2.2.9: LEA required Probe Monitoring Results – Dec. 6, 05 (1)

Exhibit 2.2.10: Follow-up Monitoring Results – Dec. 10, 05 (1)

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – Jan. 6, 06
Samples E, Q10', Q40', U68', and V70' (4)

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 3) (1)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses – Jan. 6, 06 (3)

EXHIBIT 4 AAS TAC Laboratory Results: Sheet 1 of 12 (1)
Samples AAS-SE1, -NW1, -SE2, and -NW2, TO-14A Analyses – Dec. 30, 05 (11)

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TERRA-PETRA
INCORPORATED

May 13, 2005
Job # TP152

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for First Quarter, 2005
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the forty-sixth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period January through March 2005. This is the twentieth quarterly report submitted under the March 17, 2000 amended version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill (approved October 1, 2004).

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the first quarter of 2005. Nineteen (19) exceedances were detected from *subsurface refuse boundary probes* (SRBP).

1. Reporting Requirements

South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2005 first quarter activities included the following monitoring and sampling requirements and events:

• 415 W. Foothill Blvd., Suite 301 • Claremont, CA 91711-2777 • T 213 458 0494 • F 909 624 8834 • E post@terra-petra.com

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- Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on January 27 and 31 and February 2 (for January), March 2 and 3 (for February), and March 22, 23, 24, and 25, 2005. Probe TOC (non-compliance) monitoring was performed by Terra-Petra, Inc. on January 12 and 13, February 10, and on March 9, 2005, for the City of Los Angeles, Environmental Affairs Department (LEA) requirements. The LEA Inspector monitoring of selected probes were reported for January 27, February 25, and March 25, 2005, during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes Q at 10', D, and P at 120' were sampled on April 4, 2005).

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 4 traversed, sampled, and monitored for TOC on March 18 and 31, and April 4, 2005; Grids I-1 and J-1 were sampled for TAC laboratory analyses on April 4, 2005).

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on January 31, February 8, and March 18, 2005. In January and March Path B was monitored, and in February Path A was monitored.

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection, header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled April 4, 2005).

All monitoring and sampling activities, except for agency inspections and the bi-monthly (non-compliance) probe monitoring for LEA, were performed by Los Angeles By-Products (LABP) personnel.

2. Record Keeping Requirements

Section (f)(1) of the Rule describes the record keeping requirements. Section (f)(1) of the Rule describes the record keeping requirements. The RECORDS are available for SCAQMD inspection at the Strathern Landfill weigh station on the east side of Tujunga Avenue across from Penrose Landfill. Section (f)(2) of the Rule requires that this report contain documentation regarding exceedances (and follow-up mitigation measures and results) and TAC laboratory results. The requirements regarding exceedances are summarized in the text of this report and required supplemental documentation is included as attachments in the EXHIBITS with this report. The TAC results are included as EXHIBITS with this report.

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The list below inventories the documents supplemental to this report, and required by the Rule, that are available as RECORDS in concurrence with Section (f)(1), but are not included with this report.

- Maps showing ILSM traverse routes; and
- Quality Control Sheets (QCS) for SRBPM (except where exceedances are indicated), SRBPS, ILSS, ILSM (maps only), and TSI.

3. Control System - Penrose Power Plant and Flare

Power Plant Requirements: Through December 31, 2004, the electric power plant operated under, and was compliant to a valid Permit to Construct and a valid Permit to Operate. The permit criteria changed as of January 1, 2005. An upgrading to meet the new standards is in progress. All specifications and data required by the Rule are available at the power plant at 8301 Tujunga Avenue, Sun Valley.

Flare Requirements: To facilitate an extended upgrade period for the electric power plant, a flare, located near the north end of the landfill, was made operational to specifications of a valid permit through SCAQMD. The flare was to be activated as of January 1, 2005. As the upgrade of the power plant progresses, testing has allowed part of the landfills gas to be extracted to the power plant while the remaining landfill is extracted to the flare.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

4. Compliance Probe Monitoring Results

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on January 27 and 31 and February 2 (for the January monitoring event), March 2 and 3 (for the February monitoring event), and March 22, 23, 24, and 25, 2005. There were eight exceedances detected during Rule 1150.1 compliance probe monitoring events and eleven exceedances detected during other probe monitoring events.

Rule 1150.1 requires that Records for probe monitoring (SRBPM) exceedances (see Rule (e)(1)(B & C) on page 7) be documented and included in this report, and also adjustments to vacuum of adjacent wells and re-sampling results (within 10 days, (B)). If the second probe reading (B) is also an exceedance, additional corrective action (C) be performed and the probe be re-sampled again no later than 10 calendar days after the second exceedance. If the re-sampling shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

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Mitigation Measures: The probes that registered exceedances and the nearest wells available for vacuum adjustments are listed below.

Probe	Well	Probe	Well
Q	W2	U	W6A+B
V	W7A+B	3A	A18
20	E1	P	W1
6A	A15, A16	C	P7A+B
D	A14	R	A11, W3

The first corrective action was vacuum adjustments at the nearest well(s).

Exceedances 1: 01-31-05: 10% of volume at Probe Q @ 10' (see EXHIBIT 2.2.1).

Follow-up Results: 02-04-05: follow-up monitoring was performed at approximately 1330 hours at Probe Q (see EXHIBIT 2.2.5 – Sheet 1 (The Probe Q @ 10' read 35% (= second exceedance) at ~ 1330 hours, 02-04-05). 02-13-05: follow-up monitoring was performed at approximately 1000 hours at Probe Q (see EXHIBIT 2.2.5 – Sheet 2 (Probe Q @ 10' read ND on 02-13-05)).

Exceedances 2: 01-31-05: 6% of volume at Probe U @ 68' (see EXHIBIT 2.2.1).

Follow-up Results: 02-04-05: follow-up monitoring was performed at 1300 hours at Probe U (see EXHIBIT 2.2.5 – Sheet 1 (The Probe U @ 68' read 2% at 1300 hours, 02-04-05)).

Exceedance 3: 01-31-05: 9% of volume at Probe V @ 73' (see EXHIBIT 2.2.1).

Follow-up Results: 02-04-05: follow-up monitoring was performed at approximately 1315 hours at Probe V (see EXHIBIT 2.2.5 – Sheet 1 (The Probe V read ND at ~ 1315 hours, 02-04-05).

Exceedance 4: 02-10-05: 7.7% of volume at Probe 3A (see EXHIBIT 2.2.2).

Follow-up Results: 02-15-05: follow-up monitoring was performed at 1254 hours at Probe 3A (see EXHIBIT 2.2.5 – Sheet 3 (The Probe 3A read ND at 1254 hours, 02-15-05)).

Exceedance 5: 02-10-05: 7.2% of volume at Probe 20 (see EXHIBIT 2.2.2).

Follow-up Results: 02-15-05: follow-up monitoring was performed at 1332 hours at Probe 20 (see EXHIBIT 2.2.5 – Sheet 3 (The Probe 20 read ND at 1332 hours, 02-15-05)).

Exceedance 6: 02-10-05: 9% of volume at Probe P @ 10' (see EXHIBIT 2.2.2).

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Follow-up Results: 02-13-05: follow-up monitoring was performed at 0930 hours at Probe P (see EXHIBIT 2.2.5 – Sheet 2 (Probe P @ 10' read ND at 0930 hours, 02-13-05)).

Exceedance 7: 02-10-05: 5.2% of volume at Probe P @ 120' (see EXHIBIT 2.2.2).

Follow-up Results: 02-13-05: follow-up monitoring was performed at 0930 hours at Probe P (see EXHIBIT 2.2.5 – Sheet 2 (Probe P @ 120' read ND at ~ 0930 hours, 02-13-05)).

Exceedance 8: 02-10-05: 24.8% of volume at Probe Q @ 10' (see EXHIBIT 2.2.2).

Follow-up Results: 02-13-05: follow-up monitoring was performed at approximately 0945 hours at Probe Q (see EXHIBIT 2.2.5 – Sheet 1 (Probe Q @ 10' read ND at ~ 0945 hours, 02-13-05)).

Exceedance 9: 02-10-05: 14.7% of volume at Probe U @ 68' (see EXHIBIT 2.2.3).

Follow-up Results: 02-15-05: follow-up monitoring was performed at 1307 hours at Probe U (see EXHIBIT 2.2.5 – Sheet 1 (Probe U @ 68' read 2% at 1307 hours, 02-15-05)).

Exceedance 10: 02-10-05: 20% of volume at Probe V @ 73' (see EXHIBIT 2.2.3).

Follow-up Results: 02-15-05: follow-up monitoring was performed at 1321 hours at Probe V (see EXHIBIT 2.2.5 – Sheet 2 (The Probe V @ 73' read ND at 1321 hours, 02-15-05)).

Exceedance 11: 03-09-05: 27% of volume at Probe 6A (see EXHIBIT 2.2.3).

Follow-up Results: 03-14-05: follow-up monitoring was performed at approximately 1400 at Probe 6A (see EXHIBIT 2.2.5 – Sheet 4 (Probe 6A read 3% at ~ 1400 hours, 03-14-05)).

Exceedance 12: 03-09-05: 20% of volume at Probe C @ 41' (see EXHIBIT 2.2.3).

Follow-up Results: 03-14 and 03-15-05: follow-up monitoring was performed at approximately 1400 hours on both days. The Gas Tech, Natural Gas Indicator, Model NPL-204, hand aspirator did not have enough draw to extract soil gas from the probes at C. (see EXHIBIT 2.2.5 – Sheets 4 and 5). Probe C is located in a restricted (flood wash out) area, in the jurisdiction of the City of Los Angeles. On subsequent attempts to monitor this probe it was inaccessible due to locked gates.

Exceedance 13: 03-09-05: 27% of volume at Probe D (see EXHIBIT 2.2.3).

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Follow-up Results: 03-15-05: follow-up monitoring was performed at 1300 hours at Probe D (see EXHIBIT 2.2.5 – Sheet 5 (Probe D read ND at 1300 hours, 03-15-05).

Exceedance 14: 03-09-05: 17.4% of volume at Probe P @ 120' (see EXHIBIT 2.2.3).

Follow-up Results: 03-15-05: follow-up monitoring was performed at approximately 1315 hours at Probe P (see EXHIBIT 2.2.5 – Sheet 5 (all readings at Probe P registered ND at ~ 1315 hours, 03-15-05).

Exceedance 15: 03-22-05: 12% of volume at Probe D (see EXHIBIT 2.2.4).

Follow-up Results: 03-30-05: follow-up monitoring was performed at approximately 1345 hours at Probe D (see EXHIBIT 2.2.5 – Sheet 7 (Probe D read 2% at ~ 1345 hours, 03-30-05).

Exceedance 16: 03-22-05: 33% of volume at Probe Q @ 10' (see EXHIBIT 2.2.4).

Follow-up Results: 03-31-05: follow-up monitoring performed at approximately 1300 hours at Probe Q (see EXHIBIT 2.2.5 – Sheet 7 (all Probe Q readings were ND at ~ 1300 hours, 03-31-05).

Exceedance 17: 03-23-05: 18% of volume at Probe P @ 120' (see EXHIBIT 2.2.4).

Follow-up Results: 03-30-05: follow-up monitoring at Probe P (see EXHIBIT 2.2.5 – Sheet 6 (all Probe P readings were ND at ~ 1315 hours, 03-30-05).

Exceedance 18: 03-23-05: 6% of volume at Probe R @ 10' (see EXHIBIT 2.2.4).

Follow-up Results: 03-30-05: follow-up monitoring at Probe R (see EXHIBIT 2.2.5 – Sheet 6 (all Probe R readings were ND at ~ 1330 hours, 03-30-05).

Exceedance 19: 03-23-05: 15% of volume at Probe R @ 80' (see EXHIBIT 2.2.4).

Follow-up Results: 03-30-05: follow-up monitoring at Probe R (see EXHIBIT 2.2.5 – Sheet 6 (all Probe R readings were ND at ~ 1330 hours, 03-30-05).

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5. **Compliance Probe Sampling Results**

Three probe TAC samples were collected on April 4, 2005 from Probes Q at 10', D, and P at 120'. The field TOC reading was non-detect (ND) at all three probes with a GasTech Natural Gas Indicator, Model NPL-204, calibrated to methane (CH_4). The lab TAC results (sample I.D.# s Q10', D, and P120) are included in EXHIBIT 2.3.

6. **Integrated Landfill Surface Sampling (ILSS) Results**: (see Map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). The two samples collected for laboratory analyses, ISS-I1 from grid I-1 and ISS-J1 from grid J-1 read ND as measured by a Foxboro portable Organic Vapor Analyzer (OVA), Model OVA Century 128, Flame Ionization Detector (FID), calibrated to methane. The other samples also registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. **Instantaneous Landfill Surface Monitoring (ILSM) Results**

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On January 31 and March 18 Path B was monitored, and on February 8, Path A was monitored. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

8. **Toxic Air Contaminant Results**

As required by Section (f)(2)(B)(ii) of the Rule, first quarter 2005 laboratory TAC analytical results are included in the Exhibits as follows:

• Header Inlet (Sample TSI)	EXHIBIT 1;
• SRBPS (Samples Q10', D, and P120)	EXHIBIT 2.3; and
• ILSS (Samples ISS-I1 and ISS-J1)	EXHIBIT 3.2.

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9. Certification

This quarterly report and certification is based upon Terra-Petra's understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas, migration control and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the First Quarter of 2005.

REGISTERED PROFESSIONAL ENGINEER
JOHNNY RAY CONAWAY
NO. 19,689
exp. 10-30-06
CIVIL
STATE OF CALIFORNIA

Sincerely,
Terra-Petra, Inc.

John Conaway, P. E.

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Distribution:

SCAQMD, Mr. Rich Tambara, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado

California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for First Quarter 2005 Compliance Report

EXHIBIT 1 - Control Device Laboratory Results

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – April 4, 05

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: SRBPM Monitoring Results (pages 2 and 3) – Jan. 31, 05

Exhibit 2.2.2: LEA required Probe Monitoring Results – Feb. 10, 05

Exhibit 2.2.3: LEA required Probe Monitoring Results – March 9, 05

Exhibit 2.2.4: SRBPM Monitoring Results (pages 2 and 3) – March 22 and 23, 05

Exhibit 2.2.5: Follow-up Results – various dates

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – April 4, 05

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 4)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - April 4, 05

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EXHIBIT 1

PENROSE LANDFILL - First Quarter 2005

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results – April 4, 05: Sample TSI

Hydrogen Sulfide and TO-14A Analyses

Calscience Environmental Laboratories, Inc.

April 11, 2005

Robert McAllister
L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.: 05-04-0130**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/4/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Ranjit K. K. Clarke

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 04/04/05
Work Order No: 05-04-0130
Preparation: N/A
Method: EPA TO-14A
Units: ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D	05-04-0130-4	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	18	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	13	2	1	
Chlorobenzene	ND	0.50	1		o-Xylene	25	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	69	1	1	
1,1-Dichloroethane	1.4	0.5	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	110	5	10	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

TSI	05-04-0130-5	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1400	35	70		1,3-Dichlorobenzene	ND	35	70	
Benzyl Chloride	ND	70	70		1,4-Dichlorobenzene	190	35	70	
Carbon Tetrachloride	ND	35	70		Methylene Chloride	220	140	70	
Chlorobenzene	700	35	70		o-Xylene	1900	35	70	
Chloroform	ND	35	70		p/m-Xylene	4000	70	70	
1,1-Dichloroethane	ND	35	70		Tetrachloroethene	63	35	70	
1,1-Dichloroethene	ND	35	70		Toluene	6700	350	700	
1,2-Dibromoethane	ND	35	70		Trichloroethene	84	35	70	
1,2-Dichlorobenzene	36	35	70		1,1,1-Trichloroethane	ND	35	70	
1,2-Dichloroethane	ND	35	70		Vinyl Chloride	220	35	70	

P120	05-04-0130-6	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	6.3	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	8.5	2.0	1	
Chlorobenzene	24	0.50	1		o-Xylene	14	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	39	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	4.5	0.5	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	38	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	2.6	0.5	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	9.7	0.5	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	04/04/05
Work Order No:	05-04-0130
Preparation:	N/A
Method:	EPA TO-14A
Units:	ppb (v/v)

Project: Penrose Landfill

Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**095-01-021-2,986**	**N/A**	**Air**	**N/A**	**04/05/05**	**050405L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482	Date Sampled: Date Received: Date Analyzed:	04/04/05 04/04/05 04/05/05
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	05-04-0130 EPA 16

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
ISS-I1	ND	1
ISS-J1	ND	1
Q10'	ND	1
D	ND	1
TSI	117	5
P120	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
05-04-0130-5	117	111	5	0 - 15

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: N/A
Work Order No: 05-04-0130
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-2,986	Air	GC/MS K	N/A	04/05/05	050405L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	103	61-121	1	0-37	
Bromoform	107	104	62-134	2	0-38	
Carbon Tetrachloride	99	101	56-128	1	0-42	
1,2-Dibromoethane	101	101	63-123	0	0-38	
1,2-Dichlorobenzene	124	113	41-149	9	0-62	
1,2-Dichloroethane	97	97	63-123	0	0-37	
1,2-Dichloropropane	100	101	61-121	1	0-37	
1,4-Dichlorobenzene	115	112	51-147	3	0-49	
c-1,3-Dichloropropene	105	106	62-128	1	0-37	
Ethylbenzene	100	100	61-127	0	0-38	
o-Xylene	99	99	58-130	0	0-38	
p/m-Xylene	99	96	57-129	2	0-39	
Tetrachloroethene	98	98	59-119	0	0-40	
Toluene	100	100	60-120	0	0-39	
Trichloroethene	100	101	65-119	1	0-38	
1,1,2-Trichloroethane	100	101	64-124	1	0-37	
Vinyl Chloride	103	104	58-124	0	0-37	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-04-0130

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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04-0130

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 4/4/05

	7:20 I1	7:40 J1	10:14	9:55	9:45	10:41				
Bag (I.D.#)	I55	I55	Q10	D	T5I	P120				
Condition Received in Lab*										

Analyses Requested: CORE GROUP & H_2S

Bags Prepared By: [signature] Time: 12:00 NOON

Date: 4/4/05

Bags Taken Out By: [signature] Time: 4/4/05 15:00

Bags Taken to Lab By: [signature] Time: 4/4/05 17:45

Bags Received In Lab By: [signature] CEL Time: 4/4/05 1745

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

J152TABL.609

EXHIBIT 1: Sheet 8 of 9

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000013

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05 - 0 4 - 0 1 3 0

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: LA By-Products DATE: 4/4/5

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
✓ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

EXHIBIT 2

PENROSE LANDFILL - First Quarter 2005

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: SRBPM Monitoring Results (pages 2 and 3) – Jan. 31, 05

Exhibit 2.2.2: LEA required Probe Monitoring Results – Feb. 10, 05

Exhibit 2.2.3: LEA required Probe Monitoring Results – March 9, 05

Exhibit 2.2.4: SRBPM Monitoring Results (pages 2 and 3) – March 22 and 23, 05

Exhibit 2.2.5: Follow-up Results – various dates

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – April 4, 05
Samples Q10', D, and P120 - Hydrogen Sulfide and TO-14A Analyses

PROBE MAP

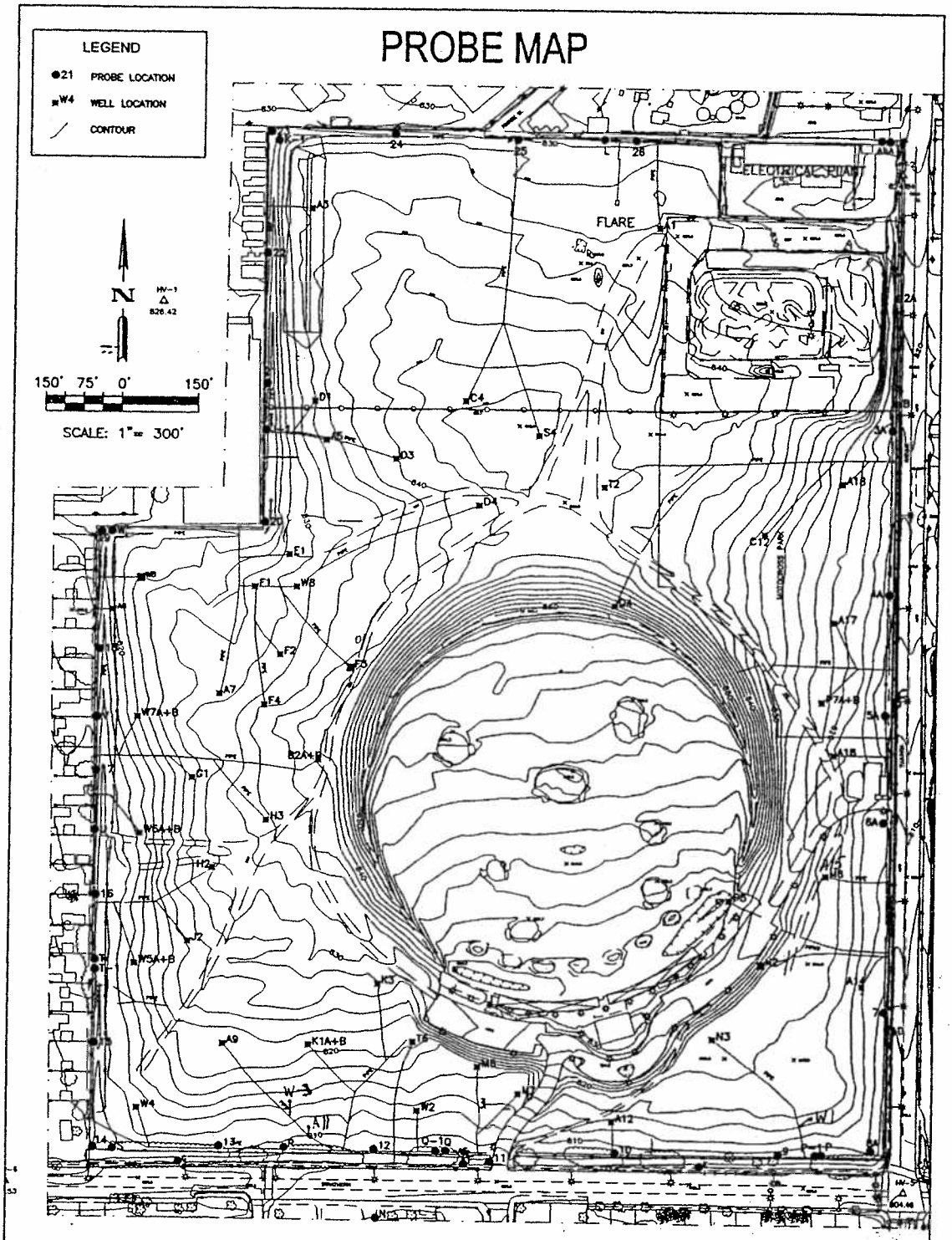

Exhibit 2.1

TERRA-PETRA
INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 458-0494
Fax: (909) 624-8834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE:

					Page 2
A-1		9:02.26	9:03.34	ND	1/27/05
B		9:12.37	9:15.09		
C	GREEN-21'	9:32.38	9:33.57		
	YELLOW-41'	9:31.21	9:31.59		
	~~[illegible]~~				MISSING
	RED - 81'	9:34.10	9:34.36		2 Pumps
D		9:36.54	9:38.08		
E		10:10.46	10:11.59		
F		10:16.37	10:17.46		
G		10:20.20	10:22.18		
J-1		1:54	1:55		2/2/05
K-1		2:03	2:04		
L	GREEN-45'	2:15	2:16	.6%	
	YELLOW-65'	2:20	2:21	ND	
	ORANGE-85'	2:19	2:20	.6%	
	RED - 105'	2:18	2:19	.6%	
N	GREEN-22'	10:27.50	10:28.55	ND	1/27/05
	YELLOW-45'	10:26.19	10:27.31		
	ORANGE-68'	10:29.13	10:30.47		
	RED - 90'	10:24.46	10:25.54		
P	10'	2:50	2:51		2/2/05
	40'	2:49	2:50		
	80'	2:48	2:49		
P-1	120'	2:52	2:53		
Q	10'	2:09.40	2:11.55	10%	1/31/05
	40'	2:08.79	2:09.23	ND	
	75'	2:14.00	2:14.54		
	120'	2:15.21	2:16.04		
Q-1	158'	2:16.22	2:17.24		

Exhibit 2.2.1: Sheet 1 of 2

1/27/05 – Cool temp – Thick cloud cover – Looks like Rain –
– Everything was wet from yesterday Rain –

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE:

					Page 3
R	10'	2:25.35	2:26.17	ND	1/31/05
	40'	2:24.25	2:25.25		
	80'	2:23.09	2:24.13		
	120'	2:26.32	2:27.32		
S	10'	2:40.26	2:41.09		
	40'	2:39.04	2:40.09		
	80'	2:41.22	2:42.19		
	120'	2:42.33	2:43.52		
T	10'	2:59.53	3:01.06		
	40'	3:01.23	3:02.16		
	73'	2:58.21	2:59.29		
T-1	72'	2:54.11	2:57.54		
U	10'	3:08.11	3:09.03		
	37'	3:06.54	3:07.58		
	68'	3:05.53	3:06.23	6%	
V	10'	3:18.30	3:20.41	ND	
	40'	3:22.39	3:23.43	ND	
	73'	3:20.56	3:22.02	89%	
W	10'	3:32.54	3:33.46	ND	
	40'	3:35.07	3:35.51		
	80'	3:36.06	3:37.00		
	120'	3:34.03	3:34.51		
	158'	3:31.21	3:32.36		

NOTES:

Exhibit 2.2.1: Sheet 2 of 2

Rev.03-19-04 tp152tbl.012

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Penrose Landfill 8301 Tujunga Ave. Sun Valley, California 91352 Tel: (323) 875-1095 Fax (818) 768-6039	JOB NAME **PENROSE**	DATE 2/10/2005 JOB No. TP481

GAS CONCENTRATIONS

TIME	1000 hr.
INITIALS	ATF
INSTRUMENT	GEM 2000
PARAMETER	% Vol.

REMARKS: Landtec GEM 2000 last factory calibrated in August 2004. Seven exceedances and eleven other detections.

Probe #	CH_4	Remarks	Probe #		CH_4	Remarks	Probe #		CH_4	Remarks
1	ND		A-1		ND		R	10'	ND	
2A	ND		B		0.3			40'	ND	
3A	7.7		C	GREEN-21'	ND			80'	ND	
4A	0.2			YELLOW-41'	1.3	hard draw		120'	ND	
5A	ND			RED-81'	ND		S	10'	ND	
6A	0.6	max=9.2	D		ND			40'	ND	
7A	ND		E		ND			80'	ND	
8A	ND		F		ND			120'	ND	
9	ND		G		ND		T	10'	ND	
10	ND		J-1		1.2			40'	ND	
11	ND		K-1		ND			73'	ND	vacuum
12	ND		L	GREEN-45'	2.3		T-1	72'	ND	
13	ND			YELLOW-65'	0.1		U	10'	ND	
14	ND			ORANGE-85'	2.1			37'	ND	
15	ND			RED - 105'	1.7			68'	14.7	
16	ND		N	GREEN-22'	ND		V	10'	ND	
17	ND			YELLOW-45'	ND			40'	2.5	
18	ND			ORANGE-68'	ND			73'	20	
19	ND			RED - 90'	ND		W	10'	ND	
20	7.2	max=16.3	P	10'	9			40'	ND	
21A	ND			40'	ND			80'	ND	
22	ND			80'	ND			120'	ND	
23	ND		P-1	120'	5.2			158'	ND	
24	3		Q	10'	24.8					
25	ND			40'	ND					
26	ND			75'	ND					
			Q-1	120'	ND					
				158'	ND					

NOTES:

Exhibit 2.2.2

rev. 02/10/05, tp481log.016/atf

TERRA-PETRA, Inc.
Tel (213) 458-0494

415 W. Foothill Bl., Ste 301
Fax (909) 624-8834

Claremont, CA 91711-2777
e-mail havery@terra-petra.com

CONFIDENTIAL

Penrose Landfill 8301 Tujunga Ave. Sun Valley, California 91352 Tel: (323) 875-1095 Fax (818) 768-6039	JOB NAME **PENROSE**	DATE 3/9/2005 JOB No. TP481

GAS CONCENTRATIONS

TIME	1000 hr.	**REMARKS:** Landtec GEM 2000 last field calibrated on 03-07-05
INITIALS	ATF	(with 50% CH_4, 35% CO_2, and 4% O_2 calibrant).
INSTRUMENT	GEM 2000	Four exceedances. Five other detections.
PARAMETER	% Vol.	

Probe #	CH_4	Remarks	Probe #		CH_4	Remarks	Probe #		CH_4	Remarks
1	ND		A-1		ND		R	10'	ND	
2A	ND		B		ND			40'	ND	
3A	ND		C	GREEN-21'	ND			80'	ND	
4A	4.7			YELLOW-41'	20	hard draw		120'	ND	
5A	2			RED-81'	0.5		S	10'	ND	
6A	27		D		27			40'	ND	
7A	ND		E		ND			80'	ND	
8A	ND		F		ND			120'	ND	
9	ND		G		ND		T	10'	ND	
10	ND		J-1		ND			40'	ND	
11	ND		K-1		ND			73'	ND	vacuum
12	ND		L	GREEN-45'	ND		T-1	72'	ND	
13	ND			YELLOW-65'	ND	hard draw	U	10'	ND	
14	ND			ORANGE-85'	ND			37'	ND	
15	ND			RED - 105'	ND			68'	ND	
16	ND		N	GREEN-22'	ND		V	10'	ND	
17	ND			YELLOW-45'	ND			40'	ND	
18	ND			ORANGE-68'	ND			73'	1.3	
19	ND			RED - 90'	ND		W	10'	ND	
20	ND		P	10'	1.1			40'	ND	
21A	ND			40'	ND			80'	ND	
22	ND			80'	ND			120'	ND	
23	ND		P-1	120'	17.4			158'	ND	
24	ND		Q	10'	ND					
25	ND			40'	ND					
26	ND			75'	ND					
			Q-1	120'	ND					
				158'	ND					

NOTES:

Exhibit 2.2.3

rev. 03/09/05, tp481log.017/atf

TERRA-PETRA, Inc.
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Claremont, CA 91711-2777
e-mail havery@terra-petra.com

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE:

					Page 2
A-1		3:03	3:04	ND	3/22/05
B		9:49	9:51		3/25/05
C Locked in sink hole area	GREEN-21'				
	YELLOW-41'				
	~~ORANGE-61'~~				MISSING
	RED - 81'				
D		3:28	3:29	12%	3/22/05
E		3:33	3:33	ND	
F		3:36	3:37		
G		3:41	3:42		
J-1		1:12	1:13		3/24/05
K-1		1:04	1:05		
N	GREEN-45'	3:45	3:45		3/22/05
	YELLOW-65'	3:46	3:47		
	ORANGE-85'	3:47	3:48		
	RED - 105'	3:49	3:49		
L	GREEN-22'	12:38	12:39		3/24/05
	YELLOW-45'	12:36	12:36		3 Pumps.
	ORANGE-68'	12:36	12:37		
	RED - 90'	12:39	12:40		
P	10'	1:47	1:47		3/23/05
	40'	1:45	1:46		
	80'	1:47	1:48	2%	
P-1	120'	1:48	1:49	18%	
Q	10'	4:00	4:01	33%	3/22/05
	40'	4:02	4:02	ND	
	75'	4:03	4:03		
Q-1	120'	4:04	4:05		
	158'	4:05	4:06		

3/22/05 - RAIN - Cool temps - Cloudy -

1:59 pm
Q10 17% 3/25/05

Exhibit 2.2.4: Sheet 1 of 2

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE: 3/23/05

					Page 3
R	10'	2:19	2:19	6%	3/23/05
	40'	2:17	2:18	ND	
	80'	2:16	2:17	15%	
	120'	2:18	2:18	2%	
S	10'	2:45	2:45	ND	
	40'	2:46	2:46		
	80'	2:44	2:44		
	120'	2:42	2:43		
T	10'	9:13	9:14		
	40'	9:14	9:15		
	73'	9:12	9:13		
T-1	72'	9:10	9:12		
U	10'	9:19	9:20		3/25/05
	37'	9:20	9:21		
	68'	9:21	9:22		
V	10'	9:26	9:27		
	40'	9:27	9:28		
	73'	9:28	9:29		
W	10'	1:24	1:24		
	40'	1:27	1:28		3/24/05
	80'	1:26	1:27		
	120'	1:24	1:25		
	158'	1:22	1:24		3/24/05

NOTES:

Exhibit 2.2.4: Sheet 2 of 2

Rev.03-19-04 tp152tbl.012

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TERRA-PETRA
INCORPORATED

INSPECTION REPORT

PENROSE LANDFILL

Project: Date: 2-4-05

Task: PROBE MONITORING Time: 1:00 PM

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☐ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS:

CHECK PROBES U 68'-2% V-0% AT 73' Q-35% AT 10'

Prepared by: Gerald Amburgy

Checked by:

Exhibit 2.2.5: Sheet 1 of 7

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TERRA-PETRA
INCORPORATED

INSPECTION REPORT

PENROSE LANDFILL

Project: PENROSE Date: 2/13/05

Task: PROBE MONITOR Time: 9:30 AM - 10:45 AM

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☐ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS:

PROBE CHECK

P - Q - R - 10 - 11 - 12 - G - F

ALL ND

Prepared by: [signature]

Checked by:

Exhibit 2.2.5: Sheet 2 of 7

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INSPECTION REPORT

PENROSE LANDFILL

Project: Date: 2/15/05

Task: Time: 1:00pm

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☐ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp 67° °F Sky High Clouds Wind Light

REMARKS: Probes

3 - 0% 12:54pm

6 - Trace 12:58

P 10' - 0%
40' 0%
80' 0%
} 1:02

Q 10' 9% 1:07
40' 0%
80' 0%

U 10' 0% 1:17
37 0%
68 2%

V 10' 0% 1:21
40' 0%
80' 0%

26 = 0% 1:32 PM
24 = 0% 1:38

Prepared by: Checked by: Gerald Amthor

Exhibit 2.2.5: Sheet 3 of 7

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INSPECTION REPORT

PENROSE LANDFILL

Project: Date: 3-14-05

Task: PROBE MONITORING Time: 1:15 PM

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☐ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS:

CHECK PROBES Q-40-0% 80'-0%
U-68'-2.5%
P 10-0% 40'-0% 80'-0%
6-3%
PROBE C 0 pumps

Prepared by: Checked by:

Exhibit 2.2.5: Sheet 4 of 7

000033

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INCORPORATED

INSPECTION REPORT

PENROSE LANDFILL

Project: Date: 3-15-05

Task: PROBE MONITORING Time: 1:00 PM

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☐ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS:

CHECK PROBES D-0% P-All 0% P1 0%
Q 10'-3% REST 0% U All 0% V 80'-1% REST 0%
G-0%

PROBE C 0 pumps

Gerald Ashley
Prepared by:

Checked by:

Exhibit 2.2.5: Sheet 5 of 7

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INCORPORATED

INSPECTION REPORT

PENROSE LANDFILL

Project: Date: 3-30-05

Task: PROBE MONITORING Time: 1:15 PM

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☐ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS:

CHECK PROBES P-All 0% P1-All 0% R All 0%
D-2%

Prepared by: Gerald Amler

Checked by:

Exhibit 2.2.5: Sheet 6 of 7

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INCORPORATED

INSPECTION REPORT

PENROSE LANDFILL

Project: PENROSE Date: 3/31/05

Task: PROBE CHECK Time: 1:00 PM

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☐ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS:

PROBE MONITOR

Q- R- V- W

ALL CLEAR.

Prepared by: [signature]

Checked by:

Exhibit 2.2.5: Sheet 7 of 7

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 04/04/05
Work Order No: 05-04-0130
Preparation: N/A
Method: EPA TO-14A
Units: ppb (v/v)

Project: Penrose Landfill

Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS-I1	05-04-0130-1	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	3.5	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	8.8	2.0	1	
Chlorobenzene	2.6	0.5	1		o-Xylene	11	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	30	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	31	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

ISS-JI	05-04-0130-2	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	4.7	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	7.8	2.0	1	
Chlorobenzene	1.1	0.5	1		o-Xylene	10	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	30	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	35	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Q10'	05-04-0130-3	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	5.8	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	20	2	1	
Chlorobenzene	ND	0.50	1		o-Xylene	22	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	58	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	59	2	4	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Exhibit 2.3: Sheet 1 of 3

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	04/04/05
Work Order No:	05-04-0130
Preparation:	N/A
Method:	EPA TO-14A
Units:	ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D	05-04-0130-4	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	18	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	13	2	1	
Chlorobenzene	ND	0.50	1		o-Xylene	25	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	69	1	1	
1,1-Dichloroethane	1.4	0.5	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	110	5	10	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

TSI	05-04-0130-5	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1400	35	70		1,3-Dichlorobenzene	ND	35	70	
Benzyl Chloride	ND	70	70		1,4-Dichlorobenzene	190	35	70	
Carbon Tetrachloride	ND	35	70		Methylene Chloride	220	140	70	
Chlorobenzene	700	35	70		o-Xylene	1900	35	70	
Chloroform	ND	35	70		p/m-Xylene	4000	70	70	
1,1-Dichloroethane	ND	35	70		Tetrachloroethene	63	35	70	
1,1-Dichloroethene	ND	35	70		Toluene	6700	350	700	
1,2-Dibromoethane	ND	35	70		Trichloroethene	84	35	70	
1,2-Dichlorobenzene	36	35	70		1,1,1-Trichloroethane	ND	35	70	
1,2-Dichloroethane	ND	35	70		Vinyl Chloride	220	35	70	

P120	05-04-0130-6	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	6.3	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	8.5	2.0	1	
Chlorobenzene	24	0.50	1		o-Xylene	14	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	39	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	4.5	0.5	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	38	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	2.6	0.5	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	9.7	0.5	1	

Exhibit 2.3: Sheet 2 of 3

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482	Date Sampled: Date Received: Date Analyzed:	04/04/05 04/04/05 04/05/05
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	05-04-0130 EPA 16

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
ISS-I1	ND	1
ISS-J1	ND	1
Q10'	ND	1
D	ND	1
TSI	117	5
P120	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
05-04-0130-5	117	111	5	0 - 15

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Exhibit 2.3: Sheet 3 of 3

EXHIBIT 3

PENROSE LANDFILL - First Quarter 2005

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 4)

Exhibit 3.2: ILSS TAC Laboratory Results – April 4, 05: Samples ISS-I1 and ISS-J1

Hydrogen Sulfide and TO-14A Analyses

INTEGRATED SAMPLING ROUT E 4

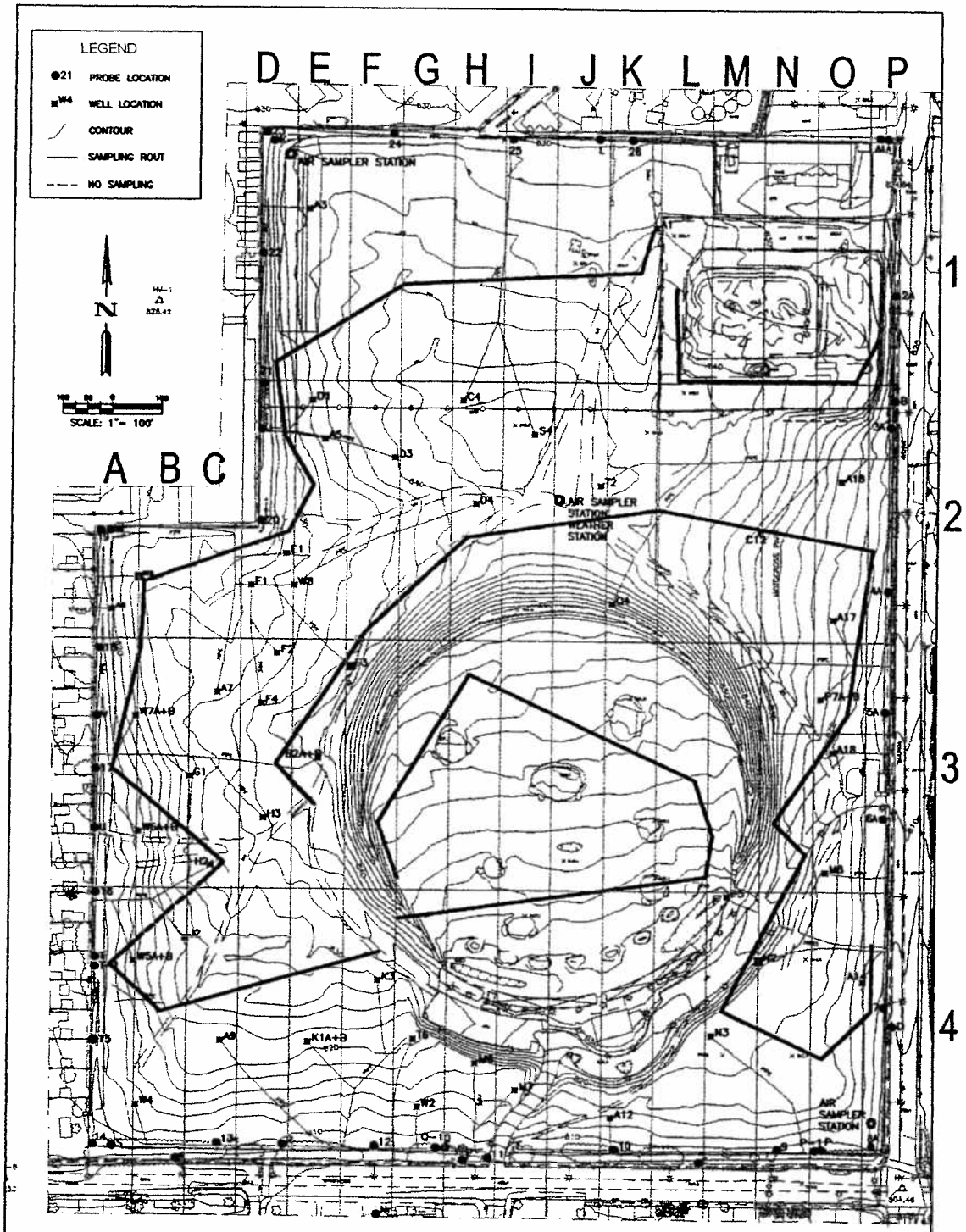

Exhibit 3.1

TERRA-PETRA
INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 458-0494
Fax: (909) 624-8834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	04/04/05
Work Order No:	05-04-0130
Preparation:	N/A
Method:	EPA TO-14A
Units:	ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS-I1	05-04-0130-1	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	3.5	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	8.8	2.0	1	
Chlorobenzene	2.6	0.5	1		o-Xylene	11	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	30	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	31	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

ISS-J1	05-04-0130-2	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	4.7	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	7.8	2.0	1	
Chlorobenzene	1.1	0.5	1		o-Xylene	10	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	30	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	35	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Q10'	05-04-0130-3	04/04/05	Air	N/A	04/05/05	050405L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	5.8	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	20	2	1	
Chlorobenzene	ND	0.50	1		o-Xylene	22	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	58	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	59	2	4	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Exhibit 3.2: Sheet 1 of 2

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482	Date Sampled: Date Received: Date Analyzed:	04/04/05 04/04/05 04/05/05
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	05-04-0130 EPA 16

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
ISS-I1	ND	1
ISS-J1	ND	1
Q10'	ND	1
D	ND	1
TSI	117	5
P120	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
05-04-0130-5	117	111	5	0 - 15

Exhibit 3.2: Sheet 2 of 2

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NOV 14 2005

L.A. BY-PROD. CO.

November 14, 2005
Job # TP152

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Third Quarter, 2005
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the forty-eighth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period July through September 2005. This is the twenty-second quarterly report submitted under the March 17, 2000 amended version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill (approved October 1, 2004).

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the third quarter of 2005. Seven (7) exceedances were detected from *subsurface refuse boundary probes* (SRBP).

1. Reporting Requirements

South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2005 third quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 77 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events). Compliance probe monitoring was performed on July 28,

August 25, and September 29 and 30, 2005. Probe TOC (non-compliance) monitoring was performed by Terra-Petra, Inc. on July 13, August 8, and on September 8, 2005, for the City of Los Angeles, Environmental Affairs Department (LEA) requirements. The LEA Inspector monitoring of selected probes were reported for, July 21, August 22, and September 13, 2005 during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes Q at 10' and Q at 40' were sampled on October 4, 2005).

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 2 traversed, sampled, and monitored for TOC on September 23, 26, 27, and October 4, 2005; Grids G-4 and H-4 were sampled for TAC laboratory analyses on October 11, 2005).

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on July 21, August 25, and September 27, 2005. In July and September Path A was monitored, and in August Path B was monitored.

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection, header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled October 4, 2005).

All monitoring and sampling activities, except for agency inspections and the monthly (non-compliance) probe monitoring for LEA, were performed by Los Angeles By-Products (LABP) personnel.

2. Record Keeping Requirements

Section (f)(1) of the Rule describes the record keeping requirements. The RECORDS are available for SCAQMD inspection at the Strathern Landfill weigh station on the east side of Tujunga Avenue across from Penrose Landfill. Section (f)(2) of the Rule requires that this report contain documentation regarding exceedances (and follow-up mitigation measures and results) and TAC laboratory results. The requirements regarding exceedances are summarized in the text of this report and required supplemental documentation is included as attachments in the EXHIBITS with this report. The TAC results are included as EXHIBITS with this report.

The list below inventories the documents supplemental to this report, and required by the

Rule, that are available as RECORDS in concurrence with Section (f)(1), but are not included with this report.

- Maps showing ILSM traverse paths; and
- Quality Control Sheets (QCS) for SRBPM (except where exceedances are indicated or where the QCS is a follow-up document for an exceedance), SRBPS, ILSS, ILSM (maps only), and TSI.

3. Control System - Penrose Power Plant and Flare

Power Plant Requirements: Through December 31, 2004, the electric power plant operated under, and was compliant to a valid Permit to Construct and a valid Permit to Operate. The permit criteria changed as of January 1, 2005. An upgrading to meet the new standards is in progress (administered by Penrose Landfill Gas Conversion, LLC). All specifications and data required by the Rule are available at the power plant at 8301 Tujunga Avenue, Sun Valley.

Flare Requirements: To facilitate an extended upgrade period for the electric power plant, a flare, located near the north end of the landfill, was made operational to specifications of a valid permit through SCAQMD. The flare was to be activated as of January 1, 2005. As the upgrade of the power plant progresses, part of the landfill gas is extracted to the power plant while the remaining landfill gas is extracted to the flare.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

4. Compliance Probe Monitoring Results

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on July 28, August 25, and September 29 and 30, 2005. There were no exceedances detected during Rule 1150.1 compliance probe monitoring events but seven exceedances detected during other probe monitoring events.

Rule 1150.1 requires that Records for probe monitoring (SRBPM) exceedances (see Rule (e)(1)(B & C) on page 7) be documented and included in this report, and also adjustments to vacuum of adjacent wells and re-sampling results (within 10 days, (e)(1)(B)). If the second probe reading is also an exceedance, additional corrective action ((e)(1)(C)) be performed and the probe be re-sampled again no later than 10 calendar days after the second exceedance. If the re-sampling shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

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Mitigation Measures: The probes that registered exceedances and the nearest wells available for vacuum adjustments are listed below.

Probe	Well	Probe	Well
L	A1	P	W1
Q	W2		

The first corrective action was vacuum adjustments at the nearest well(s).

Exceedance 1: 08-22-05: 9.1% of volume at Probe Q @ 40' (see EXHIBIT 2.2.1).

Follow-up Results: 08-25-05: monitoring at Probe Q @ 40' (see EXHIBIT 2.2.2) registered ND (0%).

Exceedances 2 & 3: 09-08-05: 6.1% of volume at Probe L @ 45' and 6% of volume at Probe L @ 105' (see EXHIBIT 2.2.3).

Follow-up Results: 09-12-05 (~1400 hours): monitoring at Probe L (see EXHIBIT 2.2.4) registered ND (0%) at all depths.

Exceedance 4: 09-08-05: 24.3% of volume at Probe P @ 10' (see EXHIBIT 2.2.3).

Follow-up Results: 09-12-05 (~1400 hours): monitoring of Probe P @ 10' registered ND (0%) (see EXHIBIT 2.2.4).

Exceedances 5 & 6: 09-08-05: 6.7% of volume at Probe Q @ 10' and 6.4% of volume at Probe Q @ 40' (see EXHIBIT 2.2.3).

Follow-up Results: 09-12-05: monitoring at Probe Q (see EXHIBIT 2.2.4) registered 0% at all depths.

Exceedance 7: 09-13-05: 5.4% of volume at Probe Q @ 40' (see EXHIBIT 2.2.5).

Follow-up Results: 09-15-05: monitoring at Probe Q @ 40' (see EXHIBIT 2.2.2) registered 3% (at 80' registered ND (0%).

There were no exceedances in July, one in August, and six (6) in September.

5. Compliance Probe Sampling Results

Two probe TAC samples were collected on October 4, 2005 from Probes Q at 10' and Q at 40'. The field TOC reading was non-detect (ND) at the 10-foot probe and 0.2% of volume

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at the 40-foot probe with a GasTech Natural Gas Indicator, Model NPL-204, calibrated to methane (CH_4). The lab TAC results (sample I.D.# s Q 10' and Q 40') are included in EXHIBIT 2.3.

6. **Integrated Landfill Surface Sampling (ILSS) Results**: (see Map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). For third quarter, fifty-eight (58) grids were sampled for TOC using 1-liter Tedlar bags. Route 2 was traversed, sampled, and the samples were monitored for TOC on September 23, 26, 27, and October 4, 2005. The samples all registered non-detect (ND) as measured by a Foxboro portable Organic Vapor Analyzer (OVA), Model OVA Century 128, Flame Ionization Detector (FID), calibrated to methane.

The two samples collected for laboratory analyses (TAC), G-4 from grid G-4 and H-4 from grid H-4 (collected in 10-liter Tedlar bags on October 11, 2005) read ND as measured by the Foxboro FID. TAC results are included as laboratory results in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. **Instantaneous Landfill Surface Monitoring (ILSM) Results**

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On July 21 and September 27, Path A was monitored, and on August 25, Path B was monitored. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

8. **Toxic Air Contaminant Results**

As required by Section (f)(2)(B)(ii) of the Rule, third quarter 2005 laboratory TAC analytical results are included in the Exhibits as follows:

• Header Inlet (Sample TSI)	EXHIBIT 1;
• SRBPS (Samples Q 10' and Q 40')	EXHIBIT 2.3; and
• ILSS (Samples G-4 and H-4)	EXHIBIT 3.2.

9. **Certification**

This quarterly report and certification is based upon Terra-Petra's understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas, migration control, and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the Third Quarter of 2005.

Sincerely,
Terra-Petra, Inc.

11/11/05

REGISTERED PROFESSIONAL ENGINEER
EDWARD D. COLLINS
No. C54032
EXP 12/31/07
CIVIL
STATE OF CALIFORNIA

Ed Collins, P. E.

Distribution:

SCAQMD, Mr. Rich Tambara, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado

California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for Third Quarter 2005 Compliance Report

EXHIBIT 1 - Control Device Laboratory Results

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – October 4, 05

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: Probe Monitoring Exceedances and Follow-up Monitoring Results

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Exhibit 2.2.1: LEA Inspection Report Results – August 22, 05

Exhibit 2.2.2: Follow-up Monitoring Results – August 25, 05

Exhibit 2.2.3: LEA required Probe Monitoring Results – September 8, 05

Exhibit 2.2.4: Follow-up Monitoring Results – September 12, 05

Exhibit 2.2.5: LEA Inspection Report Results – September 13, 05

Exhibit 2.2.6: Follow-up Monitoring Results – September 15, 05

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – October 4, 05

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 2)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses – October 11, 05

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EXHIBIT 1

PENROSE LANDFILL - Third Quarter 2005

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results – October 4, 05: Sample TSI

Hydrogen Sulfide and TO-14A Analyses

EXHIBIT 2

PENROSE LANDFILL - Third Quarter 2005

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: Probe Monitoring Exceedances and Follow-up Monitoring Results

Exhibit 2.2.1: LEA Inspection Report Results – August 22, 05

Exhibit 2.2.2: Follow-up Monitoring Results – August 25, 05

Exhibit 2.2.3: LEA required Probe Monitoring Results – September 8, 05

Exhibit 2.2.4: Follow-up Monitoring Results – September 12, 05

Exhibit 2.2.5: LEA Inspection Report Results – September 13, 05

Exhibit 2.2.6: Follow-up Monitoring Results – September 15, 05

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – October 4, 05
Samples Q 10' and Q 40' - Hydrogen Sulfide and TO-14A Analyses

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EXHIBIT 3

PENROSE LANDFILL - Third Quarter 2005

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 2)

Exhibit 3.2: ILSS TAC Laboratory Results – October 11, 05: Samples G4 and H4

Hydrogen Sulfide and TO-14A Analyses

DISTRIBUTION INSTRUCTIONS Job TP152 (rev. 10-26-05)

THIRD QUARTER 2005 REPORT

FOR: Penrose Landfill, 11501 Strathern Street, Sun Valley, CA

1) Make 4 copies;

2) Mail text and copy of documents to Mr. Rich Tambara, Toxics and Waste Management Branch, California South Coast Air Quality Management District, 21865 E. Copley Drive, Diamond Bar, California 91765-4182

3) Mail text and documents to Mr. Peter Janicke, California Integrated Waste Management Board, PO Box 4025, Sacramento, CA 95812-4025

4) Mail text and documents to Mr. Michael Mercado, City of Los Angeles, Local Enforcement Agency, 200 North Spring St., Room 1905, Mailstop 248, Los Angeles, California 90012

5) Mail copies of text and documents to Mr. Mike McAllister, LOS ANGELES BY-PRODUCTS Co., 4050 Katella Ave., Suite 209, Los Alamitos, California 90720

6) File copy of text and original documents in File TP152.

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California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention:Mr. Rich Tambara
Toxics and Waste Management Branch

California Integrated Waste Management Board
1001 I Street
Sacramento, CA 95814

Attention: Mr. Peter Janicke

City of Los Angeles
Local Enforcement Agency
200 North Spring St., Room 1905, Mailstop 248
Los Angeles, California 90012

Attention: Mr. Michael Mercado

LOS ANGELES BY-PRODUCTS Co.
4050 Katella Ave., Suite 209
Los Alamitos, California 90720

Attention: Mr. Mike McAllister

Enclosures: for Third Quarter 2005, Penrose LF, Compliance Report (# of pages)

EXHIBIT 1 - Control Device Laboratory Results Sheet 1 of 10 (1)

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – October 4, 05 (9)

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation (1)

Exhibit 2.1: Probe Location Map (1)

Exhibit 2.2: Probe Monitoring Exceedances and Follow-up Monitoring Results

Exhibit 2.2.1: LEA Inspection Report Results – August 22, 05 (1)

Exhibit 2.2.2: Follow-up Monitoring Results – August 25, 05 (1)

Exhibit 2.2.3: LEA required Probe Monitoring Results – September 8, 05 (1)

Exhibit 2.2.4: Follow-up Monitoring Results – September 12, 05 (1)

Exhibit 2.2.5: LEA Inspection Report Results – September 13, 05 (1)

Exhibit 2.2.6: Follow-up Monitoring Results – September 15, 05 (1)

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – October 4, 05
Samples Q 10' and Q 40' - Hydrogen Sulfide and TO-14A Analyses (2)

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation (1)

Exhibit 3.1: ILSS Traverse Map (Route 2) (1)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses – October 11, 05
Samples G-4 and H-4 - Hydrogen Sulfide and TO-14A Analyses (8)

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August 11, 2005
Job # TP152

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Second Quarter, 2005
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the forty-seventh quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period April through June 2005. This is the twenty-first quarterly report submitted under the March 17, 2000 amended version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill (approved October 1, 2004).

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the second quarter of 2005. Twenty-nine (29) exceedances were detected from *subsurface refuse boundary probes* (SRBP).

1. Reporting Requirements

South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2005 second quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 77 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events). Compliance probe monitoring was performed on April 25 and 26, May 31 and June 1 (for May monitoring event), and June 21 and 22, 2005.

Probe TOC (non-compliance) monitoring was performed by Terra-Petra, Inc. on April 11, May 11, and on June 7, 2005, for the City of Los Angeles, Environmental Affairs Department (LEA) requirements. The LEA Inspector monitoring of selected probes were reported for, April 18, May 10, and June 13, 2005 during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes #20, V at 73', F, Q at 10', and D were sampled on June 30, 2005).

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 1 traversed, sampled, and monitored for TOC on June 21, 22, 23, and 30, 2005; Grids D-1 and E-1 were sampled for TAC laboratory analyses on June 30, 2005).

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on April 19, May 17, and June 21, 2005. In April and June Path B was monitored, and in May Path A was monitored.

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection, header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled June 30, 2005).

All monitoring and sampling activities, except for agency inspections and the monthly (non-compliance) probe monitoring for LEA, were performed by Los Angeles By-Products (LABP) personnel.

2. Record Keeping Requirements

Section (f)(1) of the Rule describes the record keeping requirements. The RECORDS are available for SCAQMD inspection at the Strathern Landfill weigh station on the east side of Tujunga Avenue across from Penrose Landfill. Section (f)(2) of the Rule requires that this report contain documentation regarding exceedances (and follow-up mitigation measures and results) and TAC laboratory results. The requirements regarding exceedances are summarized in the text of this report and required supplemental documentation is included as attachments in the EXHIBITS with this report. The TAC results are included as EXHIBITS with this report.

The list below inventories the documents supplemental to this report, and required by the Rule, that are available as RECORDS in concurrence with Section (f)(1), but are not included with this report.

- Maps showing ILSM traverse paths; and
- Quality Control Sheets (QCS) for SRBPM (except where exceedances are indicated or where the QCS is a follow-up document for an exceedance), SRBPS, ILSS, ILSM (maps only), and TSI.

3. Control System - Penrose Power Plant and Flare

Power Plant Requirements: Through December 31, 2004, the electric power plant operated under, and was compliant to a valid Permit to Construct and a valid Permit to Operate. The permit criteria changed as of January 1, 2005. An upgrading to meet the new standards is in progress (administered by Penrose Landfill Gas Conversion, LLC). All specifications and data required by the Rule are available at the power plant at 8301 Tujunga Avenue, Sun Valley.

Flare Requirements: To facilitate an extended upgrade period for the electric power plant, a flare, located near the north end of the landfill, was made operational to specifications of a valid permit through SCAQMD. The flare was to be activated as of January 1, 2005. As the upgrade of the power plant progresses, part of the landfill gas is extracted to the power plant while the remaining landfill gas is extracted to the flare.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

4. Compliance Probe Monitoring Results

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on April 25 and 26, May 31 and June 1 (for the May monitoring event), and June 21 and 22, 2005. There were seven exceedances detected during Rule 1150.1 compliance probe monitoring events and twenty-two exceedances detected during other probe monitoring events.

Rule 1150.1 requires that Records for probe monitoring (SRBPM) exceedances (see Rule (e)(1)(B & C) on page 7) be documented and included in this report, and also adjustments to vacuum of adjacent wells and re-sampling results (within 10 days, (e)(1)(B)). If the second probe reading is also an exceedance, additional corrective action ((e)(1)(C)) be performed and the probe be re-sampled again no later than 10 calendar days after the second exceedance. If the re-sampling shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

Mitigation Measures: The probes that registered exceedances and the nearest wells

available for vacuum adjustments are listed below.

Probe	Well	Probe	Well
4A	A17	F	W2, M6 & 7
5A	P7A+B	G	W4
6A	A15, A16	P	W1
10	A12	Q	W2
20	E1	R	A11, W3
C	P7A+B	T	W5A+B
D	A14	U	W6A+B
E	A12, W1	V	W7A+B

The first corrective action was vacuum adjustments at the nearest well(s).

Exceedances 1: 04-11-05: 17.2% of volume at Probe 4A (see EXHIBIT 2.2.1).

Follow-up Results: 04-14-05: monitoring at Probe 4A (see EXHIBIT 2.2.2) registered 0%.

Exceedances 2: 04-11-05: 15% of volume at Probe 6A (see EXHIBIT 2.2.1).

Follow-up Results: 04-14-05: monitoring at Probe 6A (see EXHIBIT 2.2.2) registered 0%.

Exceedance 3: 04-11-05: 24.3% of volume at Probe C @ 41' (see EXHIBIT 2.2.1).

Follow-up Results: 04-14-05: monitoring of Probe C @ 41' (see EXHIBIT 2.2.2) read 0%.

Exceedance 4: 04-25-05: 25% of volume at Probe D (see EXHIBIT 2.2.3).

Follow-up Results: 04-28-05: monitoring at Probe D (see EXHIBIT 2.2.4) registered 0%.

Exceedance 5: 04-26-05: 15% of volume at Probe U @ 68' (see EXHIBIT 2.2.5).

Follow-up Results: 04-28-05: monitoring of Probe U @ 68' (see EXHIBIT 2.2.4) read 0%.

Exceedance 6: 04-26-05: 10% of volume at Probe V @ 73' (see EXHIBIT 2.2.5).

Follow-up Results: 04-28-05: monitoring of Probe V @ 73' (see EXHIBIT 2.2.4) read 0%.

Exceedance 7: 05-10-05: 17.8% of volume at Probe D (see EXHIBIT 2.2.6).

Follow-up Results: 05-18-05: monitoring at Probe D (see EXHIBIT 2.2.7) registered 0%.

Exceedance 8: 05-10-05: 6.7% of volume at Probe T @ 40' (see EXHIBIT 2.2.6).

Follow-up Results: 05-18-05: monitoring of Probe T @ 40' (see EXHIBIT 2.2.7) read 0%.

Exceedance 9: 05-10-05: 6.5% of volume at Probe U @ 68' (see EXHIBIT 2.2.6).

Follow-up Results: 05-18-05: monitoring of Probe U @ 68' (see EXHIBIT 2.2.7) read 0%.

Exceedances 10: 05-11-05: 18.5% of volume at Probe 4A (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring at Probe 4A (see EXHIBIT 2.2.7) registered 0%.

Exceedances 11: 05-11-05: 8.8% of volume at Probe 5A (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring at Probe 5A (see EXHIBIT 2.2.7) registered 0%.

Exceedances 12: 05-11-05: 7% of volume at Probe 10 (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring at Probe 10 (see EXHIBIT 2.2.7) registered 0%.

Exceedance 13: 05-11-05: 9.7% of volume at Probe C @ 41' (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring of Probe C @ 41' (see EXHIBIT 2.2.7) read 0%.

Exceedance 14: 05-11-05: 41% of volume at Probe D (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring at Probe D (see EXHIBIT 2.2.7) registered 0%.

Exceedance 15: 05-11-05: 15.2% of volume at Probe E (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring at Probe E (see EXHIBIT 2.2.7) registered 0%.

Exceedance 16: 05-11-05: 17.7% of volume at Probe G (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring at Probe G (see EXHIBIT 2.2.7) registered 0%.

Exceedance 17: 05-11-05: 16.5% of volume at Probe P @ 80' (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring of Probe P @ 80' (see EXHIBIT 2.2.7) read 0%.

Exceedance 18: 05-11-05: 24.7% of volume at Probe P-1 @ 120' (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring of Probe P-1 (see EXHIBIT 2.2.7) read 0%.

Exceedance 19: 05-11-05: 12% of volume at Probe R @ 40' (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring of Probe R @ 40' (see EXHIBIT 2.2.7) read 0%.

Exceedance 20: 05-11-05: 7.2% of volume at Probe R @ 120' (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring of Probe R @ 120' (see EXHIBIT 2.2.7) read 0%.

Exceedance 21: 05-11-05: 6.2% of volume at Probe T @ 10' (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring of Probe T @ 10' (see EXHIBIT 2.2.7) read 0%.

Exceedance 22: 05-11-05: 16.4% of volume at Probe T @ 40' (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring of Probe T @ 40' (see EXHIBIT 2.2.7) read 0%.

Exceedance 23: 05-11-05: 9.2% of volume at Probe T-1 @ 72' (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring of Probe T-1 (see EXHIBIT 2.2.7) read 0%.

Exceedance 24: 05-11-05: 20% of volume at Probe U @ 68' (see EXHIBIT 2.2.8).

Follow-up Results: 05-18-05: monitoring of Probe U @ 68' (see EXHIBIT 2.2.7) read 0%.

Exceedance 25: 05-31-05: 6% of volume at Probe 20 (see EXHIBIT 2.2.9).

Follow-up Results: 06-07-05: monitoring at Probe 20 (see EXHIBIT 2.2.10) registered 2.5%.

Exceedance 26: 05-31-05: 5% of volume at Probe Q @ 10' (see EXHIBIT 2.2.11).

Follow-up Results: 06-07-05: monitoring of Probe Q @ 10' (see EXHIBIT 2.2.10) read ND (non-detect).

Exceedance 27: 05-31-05: 5% of volume at Probe V @ 73' (see EXHIBIT 2.2.12).

Follow-up Results: 06-07-05: monitoring of Probe V @ 73' (see EXHIBIT 2.2.10) read 3.5%.

Exceedance 28: 06-01-05: 5% of volume at Probe F (see EXHIBIT 2.2.11).

Follow-up Results: 06-07-05: monitoring of Probe F (see EXHIBIT 2.2.10) read ND.

Exceedance 29: 06-13-05: 7.4% of volume at Probe Q @ 10' (see EXHIBIT 2.2.13).

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Follow-up Results: 06-22-05: monitoring of Probe Q @ 10' (see EXHIBIT 2.2.14) read ND.

There were six (6) exceedances in April, twenty-one (21) in May, and two (2) in June. No additional exceedances have been reported in July and to the time of submitting this report in August 2005.

5. Compliance Probe Sampling Results

Five probe TAC samples were collected on June 30, 2005 from Probes #20, V at 73', F, Q at 10', and D. The field TOC reading was non-detect (ND) at all five probes with a GasTech Natural Gas Indicator, Model NPL-204, calibrated to methane (CH_4). The lab TAC results (sample I.D.# s #20, V73', F, Q10', and D) are included in EXHIBIT 2.3.

6. Integrated Landfill Surface Sampling (ILSS) Results: (see Map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). The two samples collected for laboratory analyses, D-1 from grid D-1 and E-1 from grid E-1 read ND as measured by a Foxboro portable Organic Vapor Analyzer (OVA), Model OVA Century 128, Flame Ionization Detector (FID), calibrated to methane. The other samples also registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. Instantaneous Landfill Surface Monitoring (ILSM) Results

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On April 19 and June 21, Path B was monitored, and on May 17, Path A was monitored. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

8. Toxic Air Contaminant Results

As required by Section (f)(2)(B)(ii) of the Rule, second quarter 2005 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) EXHIBIT 1;

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9. Certification

This quarterly report and certification is based upon Terra-Petra's understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas, migration control, and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the Second Quarter of 2005.

Sincerely,
Terra-Petra, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHNNY RAY CONAWAY
No. C 19,689
exp. 10-30-05
CIVIL
STATE OF CALIFORNIA

John Conaway, P. E.

Distribution:

SCAQMD, Mr. Rich Tambara, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado

California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for Second Quarter 2005 Compliance Report

EXHIBIT 1 - Control Device Laboratory Results

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – June 30, 05

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

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EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: Probe Monitoring Exceedances and Follow-up Monitoring Results

Exhibit 2.2.1: LEA required Probe Monitoring Results – April 11, 05

Exhibit 2.2.2: Follow-up Monitoring Results – April 14, 05

Exhibit 2.2.3: SRBPM Monitoring Results (page 2) – April 25, 05

Exhibit 2.2.4: Follow-up Monitoring Results – April 28, 05

Exhibit 2.2.5: SRBPM Monitoring Results (page 3) – April 26, 05

Exhibit 2.2.6: LEA Inspection Report – May 10, 05

Exhibit 2.2.7: Follow-up Monitoring Results – May 18, 05

Exhibit 2.2.8: LEA required Probe Monitoring Results – May 11, 05

Exhibit 2.2.9: SRBPM Monitoring Results (page 1) – May 31, 05

Exhibit 2.2.10: Follow-up Monitoring Results (LEA required Probe Monitoring) – June 7, 05

Exhibit 2.2.11: SRBPM Monitoring Results (page 2) – May 31 and June 1, 05

Exhibit 2.2.12: SRBPM Monitoring Results (page 3) – May 31, 05

Exhibit 2.2.13: LEA Inspection Report – June 13, 05

Exhibit 2.2.14: Follow-up Results (SRBPM Monitoring Results (page 2)) – June 22, 05

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – June 30, 05

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 1)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses – June 30, 05

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention:Mr. Rich Tambara
Toxics and Waste Management Branch

California Integrated Waste Management Board
1001 I Street
Sacramento, CA 95814

Attention: Mr. Peter Janicke

City of Los Angeles
Local Enforcement Agency
200 North Spring St., Room 1905, Mailstop 248
Los Angeles, California 90012

Attention: Mr. Michael Mercado

LOS ANGELES BY-PRODUCTS Co.
4050 Katella Ave., Suite 209
Los Alamitos, California 90720

Attention: Mr. Mike McAllister

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EXHIBIT 1

PENROSE LANDFILL - Second Quarter 2005

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results – June 30, 05: Sample TSI

Hydrogen Sulfide and TO-14A Analyses

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Calscience Environmental Laboratories, Inc.

July 08, 2005

Robert McAllister
L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.: 05-06-1968**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/30/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Ranjit T. T. Clarke

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/30/05
Work Order No: 05-06-1968
Preparation: N/A
Method: EPA TO-14A
Units: ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D	05-06-1968-7	06/30/05	Air	N/A	07/02/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	3.8	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	2.3	0.5	1		o-Xylene	11	0.50	1	
Chloroform	1.2	0.5	1		p/m-Xylene	27	1	1	
1,1-Dichloroethane	3.3	0.5	1		Tetrachloroethene	0.87	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	24	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	1.6	0.5	1	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TBI	05-06-1968-8	06/30/05	Air	N/A	07/02/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1100	30	60		1,3-Dichlorobenzene	ND	30	60	
Benzyl Chloride	ND	60	60		1,4-Dichlorobenzene	ND	30	60	
Carbon Tetrachloride	ND	30	60		Methylene Chloride	ND	120	60	
Chlorobenzene	740	30	60		o-Xylene	2300	30	60	
Chloroform	ND	30	60		p/m-Xylene	4600	60	60	
1,1-Dichloroethane	ND	30	60		Tetrachloroethene	76	30	60	
1,1-Dichloroethene	ND	30	60		Toluene	5600	300	600	
1,2-Dibromoethane	ND	30	60		Trichloroethene	87	30	60	
1,2-Dichlorobenzene	71	30	60		1,1,1-Trichloroethane	ND	30	60	
1,2-Dichloroethane	ND	30	60		Vinyl Chloride	210	30	60	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	098-01-021-3,147	N/A	Air	N/A	07/01/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	06/30/05
Work Order No:	05-06-1968
Preparation:	N/A
Method:	EPA TO-14A
Units:	ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	098-01-021-3,148	N/A	Air	N/A	07/02/05	050702L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

nel c

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482		Date Sampled: Date Received: Date Analyzed:	06/30/05 06/30/05 06/30/05
Attn: Robert McAllister RE: Penrose Landfill		Work Order No.: Method: Page 1 of 1	05-06-1968 EPA 16

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
D-1	ND	1
E-1	ND	1
#20	ND	1
V 73'	ND	1
F	ND	1
Q 10'	ND	1
D	ND	1
TBI	38	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
05-06-1968-08	38.3	40.3	5	0 - 15

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	N/A
Work Order No:	05-06-1968
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-01-021-3,147	Air	GC/MS DD	N/A	07/01/06	060701L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	103	61-121	0	0-37	
Bromoform	107	111	62-134	4	0-38	
Carbon Tetrachloride	116	119	56-128	3	0-42	
1,2-Dibromoethane	106	110	63-123	3	0-38	
1,2-Dichlorobenzene	108	114	41-149	5	0-62	
1,2-Dichloroethane	101	105	63-123	4	0-37	
1,2-Dichloropropane	106	105	61-121	0	0-37	
1,4-Dichlorobenzene	108	112	51-147	4	0-49	
c-1,3-Dichloropropene	111	111	62-126	0	0-37	
Ethylbenzene	106	109	61-127	3	0-38	
o-Xylene	107	111	58-130	4	0-38	
p/m-Xylene	106	112	57-129	4	0-39	
Tetrachloroethene	96	99	59-119	3	0-40	
Toluene	103	106	60-120	3	0-39	
Trichloroethene	109	110	65-119	1	0-38	
1,1,2-Trichloroethane	111	110	64-124	1	0-37	
Vinyl Chloride	99	104	58-124	5	0-37	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	N/A
Work Order No:	05-06-1968
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-01-021-3,148	Air	GC/MS DD	N/A	07/02/96	960702L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	101	61-121	0	0-37	
Bromoform	101	103	62-134	1	0-38	
Carbon Tetrachloride	108	113	56-128	6	0-42	
1,2-Dibromoethane	103	103	63-123	1	0-38	
1,2-Dichlorobenzene	104	106	41-149	1	0-62	
1,2-Dichloroethane	91	97	63-123	7	0-37	
1,2-Dichloropropane	102	103	61-121	1	0-37	
1,4-Dichlorobenzene	103	104	51-147	1	0-49	
c-1,3-Dichloropropene	105	107	62-128	2	0-37	
Ethylbenzene	104	102	61-127	2	0-38	
o-Xylene	102	103	58-130	0	0-38	
p/m-Xylene	103	103	57-129	0	0-39	
Tetrachloroethene	88	84	59-119	4	0-46	
Toluene	102	100	60-120	2	0-39	
Trichloroethene	104	106	66-119	2	0-38	
1,1,2-Trichloroethane	106	107	64-124	1	0-37	
Vinyl Chloride	89	96	58-124	7	0-37	

RPD - Relative Percent Difference CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-06-1968

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

05-06-1968

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 6/30/05

Bag (I.D.#)	D-1	E-1	#20	V 73'	F	Q 10'	D	TSI		
Condition Received in Lab*										

Analyses Requested: CORE GROUP, H_2S

Bags Prepared By: [illegible] Time:

Date: 6/30/05

Bags Taken Out By: [illegible] Time: 6/30/5 13:15

Bags Taken to Lab By: [illegible] Time: 6/30/5 16:20

Bags Received In Lab By: [illegible] Time: 6/30/5 16:50

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05 - 0 6 - 1 9 6 8

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: LA By Products DATE: 6/3/05

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ____ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ✓ Ambient temperature.
- ____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact): ____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

EXHIBIT 1: Sheet 10 of 10

EXHIBIT 2

PENROSE LANDFILL - Second Quarter 2005

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: Probe Monitoring Exceedances and Follow-up Monitoring Results

Exhibit 2.2.1: LEA required Probe Monitoring Results – April 11, 05

Exhibit 2.2.2: Follow-up Monitoring Results – April 14, 05

Exhibit 2.2.3: SRBPM Monitoring Results (page 2) – April 25, 05

Exhibit 2.2.4: Follow-up Monitoring Results – April 28, 05

Exhibit 2.2.5: SRBPM Monitoring Results (page 3) – April 26, 05

Exhibit 2.2.6: LEA Inspection Report – May 10, 05

Exhibit 2.2.7: Follow-up Monitoring Results – May 18, 05

Exhibit 2.2.8: LEA required Probe Monitoring Results – May 11, 05

Exhibit 2.2.9: SRBPM Monitoring Results (page 1) – May 31, 05

Exhibit 2.2.10: Follow-up Monitoring Results (LEA required Probe Monitoring) – June 7, 05

Exhibit 2.2.11: SRBPM Monitoring Results (page 2) – May 31 and June 1, 05

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Exhibit 2.2.13: LEA Inspection Report – June 13, 05

Exhibit 2.2.14: Follow-up Results (SRBPM Monitoring Results (page 2)) – June 22, 05

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – June 30, 05
Samples #20, V73', F, Q10', and D - Hydrogen Sulfide and TO-14A Analyses

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PROBE MAP

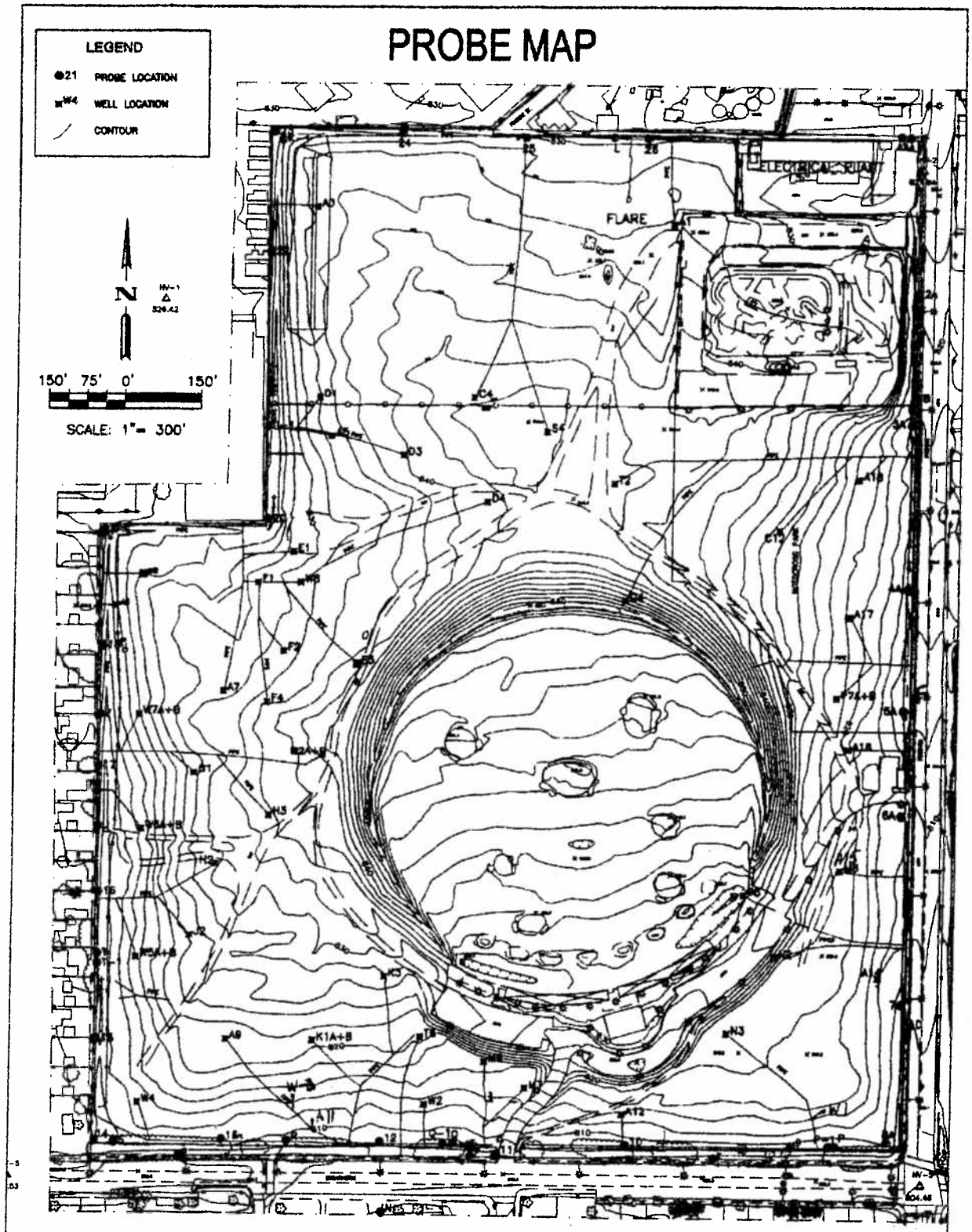

Exhibit 2.1

TERRA-PETRA
INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 458-0494
Fax: (909) 624-6834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

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Penrose Landfill 8301 Tujunga Ave. Sun Valley, California 91352 Tel: (323) 875-1095 Fax (818) 768-6039	JOB NAME **PENROSE**	DATE 4/11/2005 JOB No. TP481

GAS CONCENTRATIONS

TIME	1100 hr.	**REMARKS:** Landtec GEM 2000 last field calibrated on 04-09-05
INITIALS	ATF	(with 50% CH_4, 35% CO_2, and 4% O_2 calibrant).
INSTRUMENT	GEM 2000	Three exceedances. Four other detections.
PARAMETER	% Vol.	

Probe #	CH_4	Remarks	Probe #		CH_4	Remarks	Probe #		CH_4	Remarks
1	ND		A-1		ND		R	10'	0.6	
2A	ND		B		ND			40'	ND	
3A	ND		C	GREEN-21'	ND			80'	ND	
4A	17.2			YELLOW-41'	24.3			120'	ND	
5A	3.7			RED-81'	ND		S	10'	ND	
6A	15		D		ND			40'	ND	
7A	ND		E		ND			80'	ND	
8A	ND		F		ND			120'	ND	
9	ND		G		2.2		T	10'	ND	
10	ND		J-1		ND			40'	ND	
11	ND		K-1		ND			73'	ND	vacuum
12	ND		L	GREEN-45'	ND		T-1	72'	ND	
13	ND			YELLOW-65'	ND		U	10'	ND	
14	ND			ORANGE-85'	ND			37'	ND	
15	ND			RED - 105'	ND			68'	ND	
16	ND		N	GREEN-22'	ND		V	10'	ND	
17	ND			YELLOW-45'	ND			40'	ND	
18	ND			ORANGE-68'	ND			73'	ND	
19	ND			RED - 90'	ND		W	10'	ND	
20	ND		P	10'	ND			40'	ND	
21A	ND			40'	ND			80'	ND	
22	ND			80'	0.2			120'	ND	
23	ND		P-1	120'	ND			158'	ND	
24	ND		Q	10'	ND					
25	ND			40'	ND					
26	ND			75'	ND					
			Q-1	120'	ND					
				158'	ND					

NOTES: **Exhibit 2.2.1**

rev. 04/11/05, tp481log.018/atf

TERRA-PETRA, Inc.
Tel (213) 458-0494
415 W. Foothill Bl., Ste 301
Fax (909) 624-8834
Claremont, CA 91711-2777
e-mail havery@terra-petra.com

CONFIDENTIAL

TERRA-PETRA
INCORPORATED

INSPECTION REPORT

PENROSE LANDFILL

Project: Penrose Date: 4/14/05

Task: Probes Time:

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☒ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS:

Took Reading on Probes 4A = 0% 6A = 0% and Probe C at 41' = Yellow 0% D = 0% Q: 10' = 0% 40' = 0% 80' = 0%

Prepared by: [signature]

Checked by:

Exhibit 2.2.2

CONFIDENTIAL

PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE:

					Page 2
A-1		3:04	3:05	ND	4/25/05
B					
C	GREEN-21'	Locked	in Sink hole		
	YELLOW-41'				
	~~ORANGE-61'~~				MISSING
	RED - 81'				
D		1:32	1:33	25%	4/25/05
E		1:36	1:38	ND	
F		1:40	1:41		
G		1:44	1:45		
J-1		12:49	12:50		4/29/05
K-1		12:59	1:00		
L	GREEN-45'	1:10	1:11		
	YELLOW-65'	1:12	1:12		3 Pumps
	ORANGE-85'	1:16	1:17		
	RED - 105'	1:08	1:10		
N	GREEN-22'	1:52	1:53		4/25/05
	YELLOW-45'	1:49	1:50		
	ORANGE-68'	1:51	1:52		
	RED - 90'	1:48	1:49		
P	10'	2:37	2:38		
	40'	2:36	2:36		
	80'	2:03	2:04		
P-1	120'	2:38	2:46		
Q	10'	2:49	2:50		
	40'	2:50	2:52		
	75'	2:52	2:53		
Q-1	120'	2:54	2:55		
	158'	2:53	2:54		

Exhibit 2.2.3

TREE Planting 30th - SATURDAY ✓

CONFIDENTIAL

TERRA-PETRA
INCORPORATED

INSPECTION REPORT

PENROSE LANDFILL

Project: Penrose Date: 4/28/05

Task: Time:

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☒ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS:

Took PROBES 4A=0% 5A=0% 6A 0%
D=0% U=10'=0% 37'=0% 68=0%
V=10'=0% 40'=0% 73'=0%

Prepared by: Gerald Ambrus

Checked by:

Exhibit 2.2.4

CONFIDENTIAL

PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE:

						Page 3
R	10'	2:06	2:07	2%		4/26/05
	40'	2:08	2:09	4%		
	80'	2:05	2:06	3%		
	120'	2:07	2:08	ND		
S	10'	2:17	2:18			
	40'	2:13	2:14			
	80'	2:16	2:17			
	120'	2:14	2:16			
T	10'	2:26	2:27	3%		
	40'	2:27	2:29	4%		
	73'	2:25	2:26	ND		
T-1	72'	2:23	2:25			
U	10'	2:33	2:34			
	37'	2:34	2:35			
	68'	2:36	2:36	15%		
V	10'	2:41	2:43	ND		
	40'	2:43	2:44			
	73'	2:44	2:45	10%		
W	10'	2:53	2:54	ND		
	40'	2:52	2:52			
	80'	2:53	2:53			
	120'	2:51	2:51			
	158'	2:55	2:56			

NOTES:

Exhibit 2.2.5

Rev.03-19-04 tp152tbl.012

CONFIDENTIAL

STATE OF CALIFORNIA
CIWMB-188 (New 6/04)

Closed Disposal Site Inspection Report

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Enforcement Agency: City of Los Angeles

FACILITY FILE NUMBER/Unit #	PROGRAM CODE LOCAL = L STATE = S	INSPECTION DATE MM	DD	YY	TIME IN / TIME OUT	INSPECTION TIME
19 - AR - 0006 /	L	05	10	05		

FACILITY NAME	Penrose Landfill	RECEIVED BY (OPERATOR)	
FACILITY LOCATION	8300 Tujunga Avenue, Sun Valley, CA 91352	OWNER	
INSPECTOR Ronald L. Roque	INSPECTOR SIGNATURE	ALSO PRESENT C. Lin, LEA	

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 30 OF THE PUBLIC RESOURCES CODE (PRC) AND TITLE 27 CALIFORNIA CODE OF REGULATION (CCR

THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING: V = VIOLATION A = AREA OF CONCERN NA = NOT APPLICABLE

POSTCLOSURE	V	A	NA
20750 - SITE MAINTENANCE			
21180 - POSTCLOSURE MAINTENANCE			
21190 - POSTCLOSURE LAND USE			
GAS MONITORING AND CONTROL SYSTEMS			
20918 - EXEMPTIONS			
20919 - GAS CONTROLS	X		
20919.5 - EXPLOSIVE GAS CONTROL			
20921 - GAS MONITORING/CONTROL			
20923 - MONITORING			
20925 - PERIMETER MONITORING NETWORK			
20931 - STRUCTURE MONITORING			
20932 - MONITORED PARAMETERS			
20933 - MONITORING FREQUENCY			
20934 - REPORTING			
20937 - CONTROL			
GRADING/FINAL COVER			
20650 - GRADING OF FILL SURFACES			
21140 - FINAL COVER			
21142 - FINAL GRADING			
21145 - SLOPE STABILITY			

DRAINAGE AND EROSION CONTROL	V	A	NA
20820 - DRAINAGE/EROSION CONTROL			
21150 - DRAINAGE/EROSION CONTROL			
MONITORING AND CONTROL SYSTEMS			
20790 - LEACHATE CONTROL			
20830 - LITTER CONTROL			
21160 - LF GAS CONTROL/LEACHATE CONTACT			
SECURITY			
20530 - SITE SECURITY			
21135 - SECURITY AT CLOSED SITES			
21137 - STRUCTURE REMOVAL			
RECORDS			
21130 - EMERGENCY RESPONSE PLAN			
21170 - RECORDING			
21200 - CHANGE OF OWNERSHIP			
CLOSURE PLANS			
21880 - CERTIFICATION OF CLOSURE			
21890 - REVISION OF APPROVED PLANS FOR C/PC MAINT			
OTHER			

COMMENTS (USE CIWMB 3 FOR ADDITIONAL SPACE)

VIOLATION
20919 - GAS CONTROLS
All readings were made by a calibrated Landtec GEM 2000.
Probes monitored registered the following readings:

D 17.8 % (see pic labeled "7" from inside the prop.)
P 4.0%
Q 0 %
Q' 0 %
S 0 %
T 10 ft 3.0%
T 40 ft 6.7%
U 68 ft 6.5 %
V 0%

Operator is required to make corrective measures so that adjacent properties are safe from hazard or nuisance caused by methane gas movement and keep gas migration levels below 5.0 %.

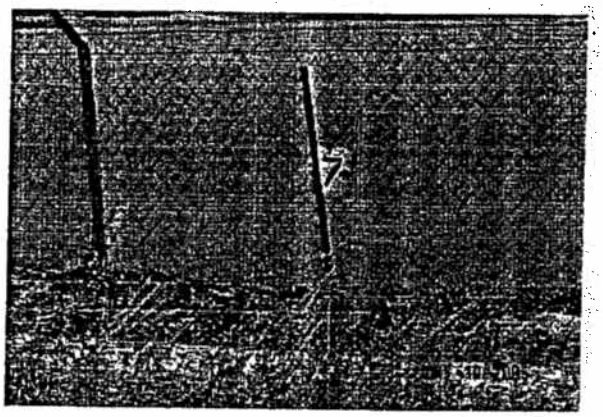
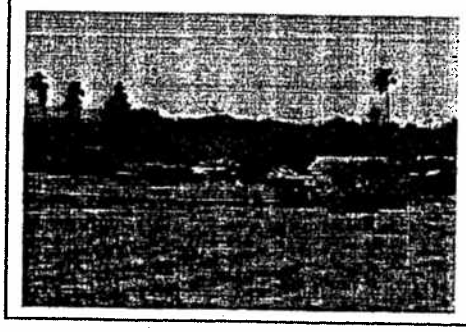
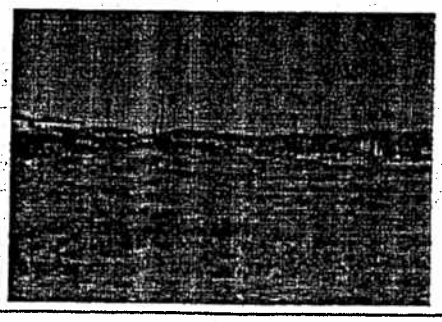


Exhibit 2.2.6





DISTRIBUTION: TOP - CIWMB MIDDLE - EA BOTTOM - OPERATOR

CONFIDENTIAL

TERRA-PETRA
INCORPORATED

INSPECTION REPORT

PENROSE LANDFILL

Project: Penrose Date: MAY 18, 2005

Task: Time:

Others present:

MONITORING AND SAMPLING ACTIVITY
☐ INSTANTANEOUS SURFACE MONITORING (ILSM) PATH
☒ SUBSURFACE REFUSE BOUNDARY PROBE MONITORING (SRBPM)
☐ SUBSURFACE REFUSE BOUNDARY PROBE SAMPLING (SRBPS)
☐ INTEGRATED SURFACE SAMPLING (ILSS) GRIDS SAMPLED
☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
☐ AMBIENT AIR SAMPLING (AAS)
☐ OTHER

Temp _____ °F Sky _____ Wind _____

REMARKS:

Took PROBE READING D=0% T10'=0% 40'=0% T1=0%
U 10'=0% 37'=0% 68'=0% 4A=0% 5A=0% 10=0%
C 41' Yellow 0% D=0% E=0% G=0% P10'=0% 40'=0% 80'=0%
P1=0% R 10'=0% 40'=0% 80'=0% 120'=0%
T 10'=0% 40'=0% T1=0% U 10'=0% 37'=0% 68'=0%

Prepared by: Checked by:

Exhibit 2.2.7

CONFIDENTIAL

Penrose Landfill 8301 Tujunga Ave. Sun Valley, California 91352 Tel: (323) 875-1095 Fax (818) 768-6039	JOB NAME **PENROSE**	DATE 5/11/2005 JOB No. TP481

GAS CONCENTRATIONS

TIME	1100 hr.
INITIALS	ATF
INSTRUMENT	GEM 2000
PARAMETER	% Vol.

REMARKS: Landtec GEM 2000 last field calibrated on 05-10-05 (with 50% CH_4, 35% CO_2, and 4% O_2 calibrant). Fifteen exceedances. Eleven other detections. If a peak occurs in "Remarks", the CH_4 reading given is the stabilized reading.

Probe #	CH_4	Remarks	Probe #		CH_4	Remarks	Probe #		CH_4	Remarks
1	ND		A-1		ND		R	10'	4.6	
2A	ND		B		ND			40'	12	
3A	ND		C	GREEN-21'	ND			80'	4.5	
4A	18.5	peak=48		YELLOW-41'	9.7			120'	7.2	
5A	8.8	peak=43		RED-81'	3.7		S	10'	ND	
6A	2.8	peak=37	D		41			40'	ND	
7A	ND		E		15.2			80'	ND	
8A	ND		F		ND			120'	ND	
9	ND		G		17.7		T	10'	6.2	
10	7	peak=10	J-1		ND			40'	16.4	
11	ND		K-1		ND			73'	ND	vacuum
12	ND		L	GREEN-45'	3.2		T-1	72'	9.2	
13	ND			YELLOW-65'	ND		U	10'	ND	
14	ND			ORANGE-85'	3.1			37'	ND	
15	ND			RED - 105'	2.8			68'	20	
16	ND		N	GREEN-22'	ND		V	10'	ND	
17	ND			YELLOW-45'	ND			40'	ND	
18	ND			ORANGE-68'	ND			73'	0.4	
19	ND			RED - 90'	ND		W	10'	ND	
20	ND		P	10'	ND			40'	ND	
21A	4.9	peak=10		40'	ND			80'	ND	
22	ND			80'	16.5			120'	ND	
23	ND		P-1	120'	24.7			158'	ND	
24	3.2		Q	10'	ND					
25	ND			40'	4.7					
26	ND			75'	ND					
			Q-1	120'	ND					
				158'	ND					

NOTES:

rev. 05/11/05, tp481log.019/atf

Exhibit 2.2.8

CONFIDENTIAL

Penrose Landfill 8301 Tujunga Ave. Sun Valley, California 91352 Tel: (323) 875-1095 Fax (818) 768-6039	JOB NAME **PENROSE**	DATE 6/7/2005 JOB No. TP481

GAS CONCENTRATIONS

TIME	1000 hr.
INITIALS	ATF
INSTRUMENT	GEM 2000
PARAMETER	% Vol.

REMARKS: Landtec GEM 2000 last field calibrated on 06-01-05 (with 50% CH_4, 35% CO_2, and 4% O_2 calibrant). No exceedances. Eight detections. If a peak occurs in the Remark column, the CH_4 reading is the stabilized reading. P = plugged.

Probe #	CH_4	Remarks
1	ND	
2A	ND	
3A	ND	
4A	ND	
5A	ND	
6A	ND	
7A	ND	
8A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	2.5	peak=6.3
21A	0.3	peak=3.6
22	ND	
23	ND	
24	ND	
25	ND	
26	ND	

Probe #		CH_4	Remarks
A-1		ND	
B		ND	
C	GREEN-21'	X	inaccessible
	YELLOW-41'	X	
	RED-81'	X	
D		2.2	
E		ND	
F		ND	
G		ND	
J-1		4.1	
K-1		ND	
L	GREEN-45'	0.6	
	YELLOW-65'	P	vacuum
	ORANGE-85'	0.3	
	RED - 105'	1	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	ND	
	80'	ND	
P-1	120'	ND	
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

Probe #		CH_4	Remarks
R	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
S	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
T	10'	ND	
	40'	ND	
	73'	ND	vacuum
T-1	72'	ND	
U	10'	ND	
	37'	ND	
	68'	ND	
V	10'	ND	
	40'	ND	
	73'	3.5	
W	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
	158'	ND	

NOTES:

Exhibit 2.2.10

rev. 06/07/05, tp481log.020/atf

TERRA-PETRA, Inc.
Tel (213) 458-0494
415 W. Foothill Bl., Ste 301
Fax (909) 624-8834
Claremont, CA 91711-2777
e-mail havery@terra-petra.com

CONFIDENTIAL

PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE:

A-1		1:03	1:04	ND	6/1/05
B		12:57	12:58		
C	GREEN-21'	1:35	1:36		6/1/05
	YELLOW-41'	1:37	1:38		
	~~ORANGE-61'~~				MISSING
	RED - 81'	1:39	1:40		
D		1:43	1:44		
E		1:48	1:49		
F		1:50	1:51	5%	
G		1:53	1:54	ND	
J-1		2:13	2:15		5/31/05
K-1		2:22	2:23		5/31/05
L	GREEN-45'	2:37	2:38		
	YELLOW-65'	2:33	2:33		2 Pumps 5/31/05
	ORANGE-85'	2:35	2:36		
	RED - 105'	2:34	2:35		
N	GREEN-22'	2:53	2:54		6/1/05
	YELLOW-45'	2:54	2:55		
	ORANGE-68'	2:56	2:57		
	RED - 90'	2:52	2:53		
P	10'	12:41	12:42		5/31/05
	40'	12:42	12:43		
	80'	12:44	12:45		
P-1	120'	12:45	12:46		
Q	10'	12:58	12:59	5%	
	40'	12:59	1:00	ND	
	75'	1:00	1:01		
Q-1	120'	1:02	1:03		
	158'	1:03	1:05		

Exhibit 2.2.11

CONFIDENTIAL

PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE:

R	10'	1:12	1:13	ND	5/31/05
	40'	1:09	1:10		
	80'	1:13	1:14		
	120'	1:10	1:11		
S	10'	1:20	1:21		
	40'	1:19	1:20		
	80'	1:22	1:22		
	120'	1:18	1:19		
T	10'	1:32	1:33		
	40'	1:30	1:31		
	73'	1:29	1:30		
T-1	72'	1:31	1:32		
U	10'	1:37	1:38		
	37'	1:39	1:40		
	68'	1:40	1:41	3%	
V	10'	1:51	1:52	ND	
	40'	1:50	1:51	ND	
	73'	1:53	1:54	5%	
W	10'	2:04	2:05	ND	
	40'	2:02	2:03		
	80'	2:03	2:04		
	120'	2:01	2:02		
	158'	2:05	2:06		

NOTES:

Exhibit 2.2.12

Rev.03-19-04 tp152tbl.012

CONFIDENTIAL

FROM : FAX NO. :18185009322 Aug. 15 2005 03:17PM P1

STATE OF CALIFORNIA
CIWMB-186 (Rev. 6/04)

Closed Disposal Site Inspection Report

RECEIVED
JUN 21 2005

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Enforcement Agency: City of Los Angeles

Page 1 of 1

FACILITY FILE NUMBER/Unit #	PROGRAM CODE LOCAL = L STATE = S	INSPECTION DATE MM DD YY	TIME IN / TIME OUT	INSPECTION TIME
19 . AR . 0008 /	L	06 13 06	A. BYPROD. CO.	

FACILITY NAME	Penrose Landfill
FACILITY LOCATION	8300 Tujunga Avenue, Sun Valley, CA 91352
INSPECTOR	Ronald L. Roque
INSPECTOR SIGNATURE	RLR
RECEIVED BY (OPERATOR)	
OWNER	
ALSO PRESENT	C. Lin, LEA; R. McAllister, LA Byproducts, Inc

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 30 OF THE PUBLIC RESOURCES CODE (PRC) AND TITLE 27 CALIFORNIA CODE OF REGULATION (CCR

THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING: V = VIOLATION A = AREA OF CONCERN NA = NOT APPLICABLE

POSTCLOSURE	V	A	NA
20750 - SITE MAINTENANCE			
21180 - POSTCLOSURE MAINTENANCE			
21190 - POSTCLOSURE LAND USE			
GAS MONITORING AND CONTROL SYSTEMS			
20918 - EXEMPTIONS			
20919 - GAS CONTROLS	X		
20919.5 - EXPLOSIVE GAS CONTROL			
20921 - GAS MONITORING/CONTROL			
20923 - MONITORING			
20925 - PERIMETER MONITORING NETWORK			
20931 - STRUCTURE MONITORING			
20932 - MONITORED PARAMETERS			
20933 - MONITORING FREQUENCY			
20934 - REPORTING			
20937 - CONTROL			
GRADING/FINAL COVER			
20850 - GRADING OF FILL SURFACES			
21140 - FINAL COVER			
21142 - FINAL GRADING			
21145 - SLOPE STABILITY			

DRAINAGE AND EROSION CONTROL	V	A	NA
20820 - DRAINAGE/EROSION CONTROL			
21150 - DRAINAGE/EROSION CONTROL			
MONITORING AND CONTROL SYSTEMS			
20790 - LEACHATE CONTROL			
20830 - LITTER CONTROL			
21160 - LF GAS CONTROL/LEACHATE CONTACT			
SECURITY			
20830 - SITE SECURITY			
21135 - SECURITY AT CLOSED SITES			
21137 - STRUCTURE REMOVAL			
RECORDS			
21130 - EMERGENCY RESPONSE PLAN			
21170 - RECORDING			
21200 - CHANGE OF OWNERSHIP			
CLOSURE PLANS			
21880 - CERTIFICATION OF CLOSURE			
21850 - REVISION OF APPROVED PLANS FOR C/PC MAINT.			
OTHER			

COMMENTS (USE CIWMB 3 FOR ADDITIONAL SPACE)

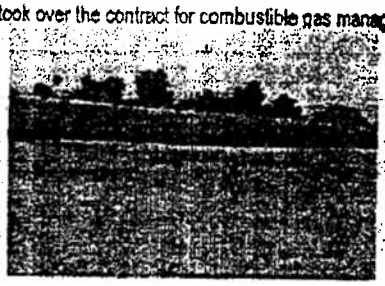
VIOLATION
20919 - GAS CONTROLS
All readings were made by a calibrated Landtec GEM 2000.
Probes monitored registered the following readings:

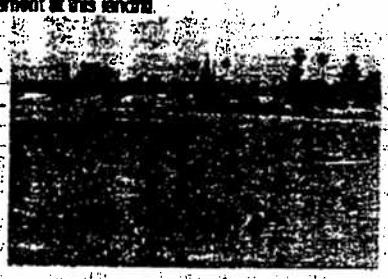
Q 10 ft 7.4 % vol
40 ft 3.5 %
80 ft 0.3 %

Exhibit: 2.2.13

Other probes measured registered zero readings.
This is the 2nd month that the company has violated this regulation.
Operator is required to make corrective measures so that adjacent properties are safe from hazard or nuisance caused by methane gas movement and keep gas migration levels below 5.0 %.

Operator informed LEA that SCS Engineers just took over the contract for combustible gas management at this landfill.





DISTRIBUTION: TOP - CIWMB MIDDLE - EA BOTTOM - OPERATOR

CONFIDENTIAL

PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE:

					Page 2
A-1		12:53	12:54	ND	6/21/05
B		1:32	1:33		6/23/05
C	GREEN-21'	1:35	1:35		6/21/05
	YELLOW-41'	1:32	1:33		2 Pumps,
	~~ORANGE-61'~~				MISSING
	RED - 81'	1:33	1:34		6/21/05
D		1:45	1:47		
E		1:49	1:50		
F		1:52	1:53	.6%	
G		1:56	1:57	ND	
J-1		2:04	2:05		6/22/05
K-1		12:27	12:28		6/21/05
L	GREEN-45'	12:43	12:44	1.4%	
	YELLOW-65'	12:38	12:38	ND	3 Pumps
	ORANGE-85'	12:39	12:40		
	RED - 105'	12:41	12:42		
N	GREEN-22'	2:02	2:03		6/21/05
	YELLOW-45'	2:03	2:04		
	ORANGE-68'	2:01	2:02		
	RED - 90'	1:59	2:00		
P	10'	1:18	1:19		6/22/05
	40'	1:19	1:20		
	80'	1:20	1:21		
P-1	120'	1:15	1:16		
Q	10'	1:28	1:29		
	40'	1:30	1:31		
	75'	1:31	1:32		
Q-1	120'	1:33	1:34		
	158'	1:35	1:36		

Exhibit 2.2.14

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	06/30/05
Work Order No:	05-06-1968
Preparation:	N/A
Method:	EPA TO-14A
Units:	ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D-1	05-06-1968-1	06/30/05	Air	N/A	07/01/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.2	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	4.7	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	12	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	20	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
E-1	05-06-1968-2	06/30/05	Air	N/A	07/01/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1.8	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	2.9	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	7.9	1.0	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	13	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
#20	05-06-1968-3	06/30/05	Air	N/A	07/02/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.4	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	2.1	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	6.0	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	16	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	19	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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Exhibit 2.3: Sheet 1 of 4

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/30/05
Work Order No: 05-06-1968
Preparation: N/A
Method: EPA TO-14A
Units: ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
V 73'	05-06-1968-4	06/30/05	Air	N/A	07/02/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.9	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	2.8	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	11	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	28	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	25	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

F	05-06-1968-5	06/30/05	Air	N/A	07/02/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1.8	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	5.6	0.5	1	
Chloroform	1.3	0.5	1		p/m-Xylene	15	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	15	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

Q 10'	05-06-1968-6	06/30/05	Air	N/A	07/02/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.1	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	2.2	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	6.8	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	18	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	18	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Exhibit 2.3: Sheet 2 of 4

Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/30/05
Work Order No: 05-06-1968
Preparation: N/A
Method: EPA TO-14A
Units: ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D	05-06-1968-7	06/30/05	Air	N/A	07/02/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	3.8	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	2.3	0.5	1		o-Xylene	11	0.50	1	
Chloroform	1.2	0.5	1		p/m-Xylene	27	1	1	
1,1-Dichloroethane	3.3	0.5	1		Tetrachloroethene	0.87	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	24	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	1.5	0.5	1	

TSI	05-06-1968-8	06/30/05	Air	N/A	07/02/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1100	30	60		1,3-Dichlorobenzene	ND	30	60	
Benzyl Chloride	ND	60	60		1,4-Dichlorobenzene	ND	30	60	
Carbon Tetrachloride	ND	30	60		Methylene Chloride	ND	120	60	
Chlorobenzene	740	30	60		o-Xylene	2300	30	60	
Chloroform	ND	30	60		p/m-Xylene	4600	60	60	
1,1-Dichloroethane	ND	30	60		Tetrachloroethene	76	30	60	
1,1-Dichloroethene	ND	30	60		Toluene	5600	300	600	
1,2-Dibromoethane	ND	30	60		Trichloroethene	87	30	60	
1,2-Dichlorobenzene	71	30	60		1,1,1-Trichloroethane	ND	30	60	
1,2-Dichloroethane	ND	30	60		Vinyl Chloride	210	30	60	

Method Blank	095-01-021-3,147	N/A	Air	N/A	07/01/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Exhibit 2.3: Sheet 3 of 4

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482		Date Sampled: Date Received: Date Analyzed:	06/30/05 06/30/05 06/30/05
Attn: Robert McAllister RE: Penrose Landfill		Work Order No.: Method: Page 1 of 1	05-06-1968 EPA 16

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
D-1	ND	1
E-1	ND	1
#20	ND	1
V 73'	ND	1
F	ND	1
Q 10'	ND	1
D	ND	1
TSI	38	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
05-06-1968-08	38.3	40.3	5	0 - 15

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Exhibit 2.3: Sheet 4of 4

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EXHIBIT 3

PENROSE LANDFILL - Second Quarter 2005

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 1)

Exhibit 3.2: ILSS TAC Laboratory Results – June 30, 05: Samples ISS-I1 and ISS-J1

Hydrogen Sulfide and TO-14A Analyses

PENROSE LANDFILL
INTEGRATED SAMPLING ROUTE 1

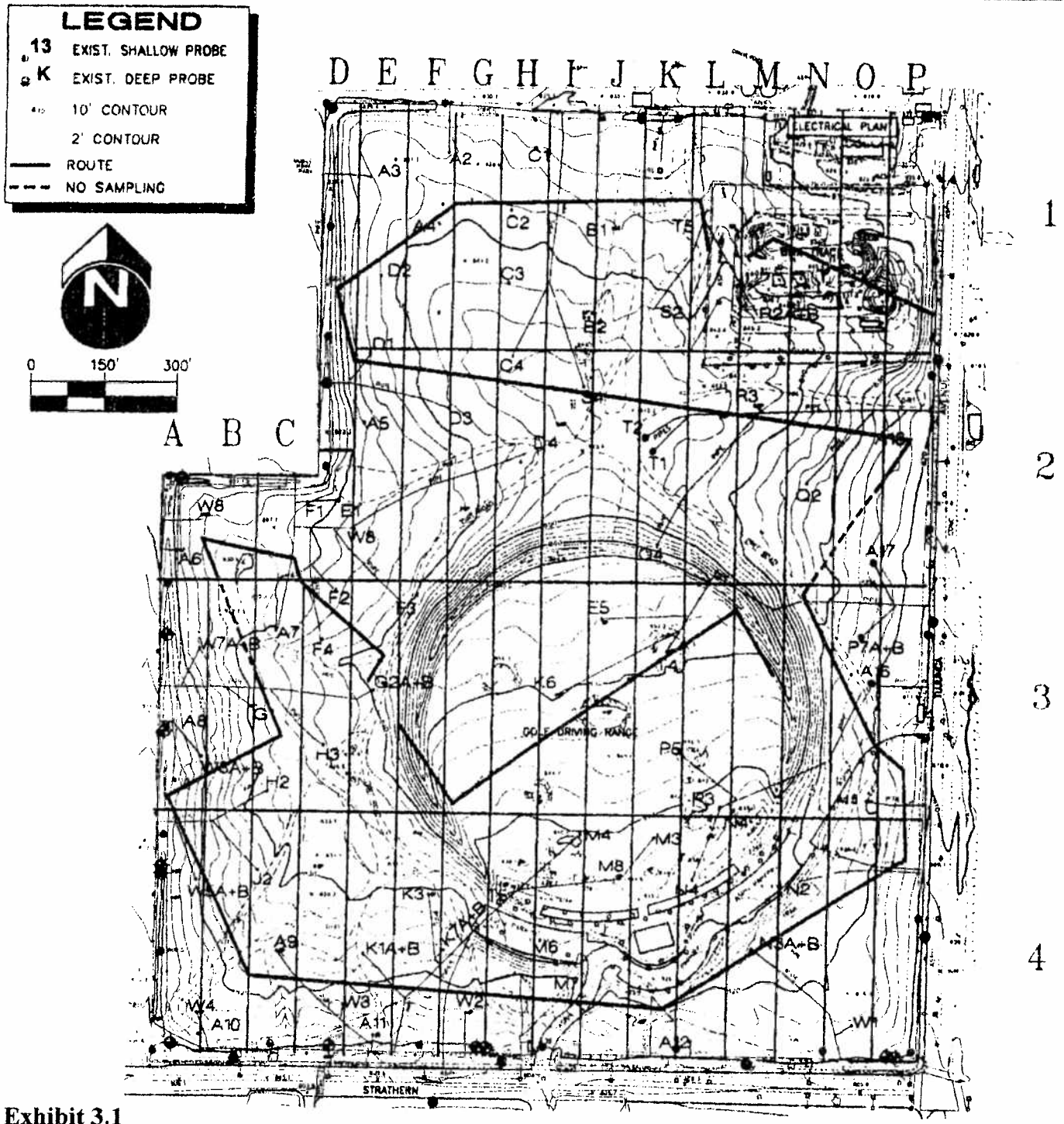

Exhibit 3.1

TERRA-PETRA
INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 458-0494
Fax: (909) 624-8834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	06/30/05
Work Order No:	05-06-1968
Preparation:	N/A
Method:	EPA TO-14A
Units:	ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D-1	05-06-1968-1	06/30/05	Air	N/A	07/01/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.2	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	4.7	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	12	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	20	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

E-1	05-06-1968-2	06/30/05	Air	N/A	07/01/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1.8	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	ND	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	2.9	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	7.9	1.0	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	13	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

#20	05-06-1968-3	06/30/05	Air	N/A	07/02/05	050701L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.4	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Benzyl Chloride	ND	1.0	1		1,4-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		Methylene Chloride	2.1	2.0	1	
Chlorobenzene	ND	0.50	1		o-Xylene	6.0	0.5	1	
Chloroform	ND	0.50	1		p/m-Xylene	16	1	1	
1,1-Dichloroethane	ND	0.50	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		Toluene	19	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		1,1,1-Trichloroethane	ND	0.50	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Chloride	ND	0.50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Exhibit 3.2: Sheet 1 of 2

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482		Date Sampled: Date Received: Date Analyzed:	06/30/05 06/30/05 06/30/05
Attn: Robert McAllister RE: Penrose Landfill		Work Order No.: Method: Page 1 of 1	05-06-1968 EPA 16

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
D-1	ND	1
E-1	ND	1
#20	ND	1
V 73'	ND	1
F	ND	1
Q 10'	ND	1
D	ND	1
TSI	38	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
05-06-1968-08	38.3	40.3	5	0 - 15

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Exhibit 3.2: Sheet 2 of 2

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METHANE SPECIALISTS
621 Via Alondra Suite 611
Camarillo CA, 93012
www.methanespecialists.com
TEL (805) 987-5356
FAX(805) 987-3968

May 14, 2003
Job # 152-6

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

RECEIVED
MAY 18 2003
L.A. BY-PROD. CO.

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for First Quarter, 2003
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the thirty-eighth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period January through March 2003. This is the twelfth quarterly report submitted under the 1999 revised version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill.

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the first quarter of 2003. Two exceedances were detected from *subsurface refuse boundary probes* (SRBP).

1. Reporting Requirements

South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2003 first quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on January 28 and 29, February 27 and March 5 for the month of February, and March 25 and 31, 2003. In addition,

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TOC monitoring (a non-compliance monitoring event performed by Methane Specialists for the City of Los Angeles, Environmental Affairs Department (LEA) requirements) was performed on January 9, February 6, and March 11, 2003. LEA Inspector monitoring of selected probes were reported for January 15, February 24, and March 28, 2003, during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes D, and G were sampled on April 3, 2003).

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 4 traversed, monitored on March 25 and 31 and sampled for TOC on April 3, 2003. Grids D-3 and E-3 were sampled for TAC laboratory analyses on April 3, 2003).

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on January 29, February 25, and March 23 and 25, 2003. In January Path A was monitored, and in February and March Path B was monitored.

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection, header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled April 3, 2003).

All monitoring and sampling activities, except for agency inspections, the bi-monthly (non-compliance) probe monitoring, the ambient air sampling, and monitoring of TOC readings of SRBPS, ILSS, TSI and AAS samples were performed by Los Angeles By-Products (LABP) personnel.

2. Record Keeping Requirements

Section (f)(1) of the Rule describes the record keeping requirements. Section (f)(1) of the Rule describes the record keeping requirements. The RECORDS are available for SCAQMD inspection at the Strathern Landfill weigh station on the east side of Tujunga Avenue across from Penrose Landfill. Section (f)(2) of the Rule requires that this report contain documentation regarding exceedances (and follow-up mitigation measures and results) and TAC laboratory results. The requirements regarding exceedances are summarized in the text of this report and required supplemental documentation is included as attachments in the EXHIBITS with this report. The TAC results are included as EXHIBITS with this report.

The list below inventories the documents supplemental to this report, and required by the

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Rule, that are available as RECORDS in concurrence with Section (f)(1), but are not included with this report:

- Maps showing ILSM traverse routes; and
- Quality Control Sheets (QCS) for SRBPM, SRBPS, ILSS, ILSM (maps only), and TSI.

3. Control System - 8309 Tujunga Avenue Corp. (8309 TAC) - Penrose Power Plant

Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at 8309 TAC's Plant at 8301 Tujunga Avenue, Sun Valley.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

4. Compliance Probe Monitoring Results

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on January 28 and 29, February 27 and March 5, and March 25 and 31, 2003. Results: There were no exceedances detected in compliance probes during these first quarter 2003 monitoring events. One exceedance was detected in a compliance probe during probe monitoring for LEA compliance at Probe D on March 11, 2003. Another exceedance was detected in Probe D during quarterly probe sampling on April 3, 2003.

Exceedance 1: 03-11-03: 8.5% of volume at Probe D (see EXHIBIT 2.2.1).

Mitigation Measures and Follow-up Results: 03-12-03: according to the Rule, the first mitigation measure is to make extraction well adjustments (Wells N3A&B flow rates were increased at ~ 1230 hours). Follow-up monitoring results on March 13 through 18, at Probe D are presented in EXHIBIT 2.2.2 (Probe D read 2% of volume on March 13 and ND (non-detect) on March 14, 15, 16, 17, and 18).

Exceedance 2: 04-03-03: 7% of volume at Probe D (see EXHIBIT 2.2.3).

Mitigation Measures and Follow-up Results: 04-04-03: according to the Rule, the first mitigation measure is to make extraction well adjustments (Wells N3A&B flow rates were increased at ~0845 hours). Follow-up monitoring results on April 7, at Probe D are presented in EXHIBIT 2.2.4 (Probe D read ND on April 7, 2003).

5. Compliance Probe Sampling Results

Two probe TAC samples were collected on April 3, 2003 from Probes D and G. The field TOC was non-detect from Probe G, but the Probe D sample registered 7% by volume with a GasTech Natural Gas Indicator, Model NPL-204, calibrated to methane (CH_4). The same mitigation routine was followed as for the March 11 exceedance. The lab TOC result indicated % by volume from the sample from Probe D and the TAC results (sample I.D.# s D and G) are included in EXHIBIT 2.3.

6. Integrated Landfill Surface Sampling (ILSS) Results: (see traverse map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). The two samples collected for laboratory analyses, D-3 from grid D-3 and E-3 from grid E-3 read ND as measured by a Foxboro FID. The other 57 samples also registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results (samples D-3 and E-3) in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. Instantaneous Landfill Surface Monitoring (ILSM) Results

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On January 15 Path A was monitored, and on February 25, and March 23 and 25, Path B was monitored. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

8. Toxic Air Contaminant Results

As required by Section (f)(2)(B)(ii) of the Rule, fourth quarter 2002 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) — EXHIBIT 1;
- SRBPS (Samples D and G') — EXHIBIT 2.3; and
- ILSS (Samples D-3 and E-3) — EXHIBIT 3.2.

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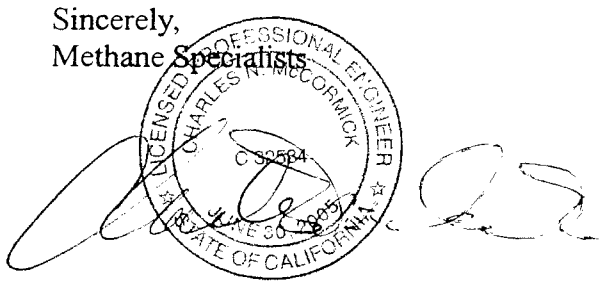
9. Certification

This quarterly report and certification is based upon Methane Specialists' understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas, migration control and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the First Quarter of 2003.

Sincerely,
Methane Specialists



Charles N. McCormick, P. E.

Distribution:

SCAQMD, Mr. Rich Tambara, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado

California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for First Quarter 2003

EXHIBIT 1 - Control Device Laboratory Results

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – April 3, 2003

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

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Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: SRBPS Monitoring Results – March 11, 2003

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results – March 12 - 18, 2003

Exhibit 2.2.3: SRBPS Monitoring Results – April 3, 2003

Exhibit 2.2.4: Mitigation and Follow-up SRBPM Results – April 4, 7, 2003

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – April 3, 2003

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 4)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses – April 3, 2003

J152REPT.638

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EXHIBIT 1

PENROSE LANDFILL - First Quarter 2003

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results – April 3, 2003: Sample TSI

Hydrogen Sulfide and TO-14A Analyses

EXHIBIT 1: Sheet 1 of 8

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists	Date Sampled:	04/03/03
4050 Katella Avenue, Suite 209	Date Received:	04/03/03
Los Alamitos, CA 90720-3482	Date Analyzed:	04/03/03
	Work Order No.:	03-04-0191
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	130	5
D	ND	1
E3	ND	1
G	ND	1
D3	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	130	127	2	0 - 30

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 04/03/03
Work Order No: 03-04-0191
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	03-04-0191-1	04/03/03	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	50	100		ppb (v/v)	Trichloroethene	81	50	100		ppb (v/v)
1,1-Dichloroethene	ND	50	100		ppb (v/v)	1,2-Dibromoethane	ND	50	100		ppb (v/v)
Methylene Chloride	230	200	100		ppb (v/v)	Tetrachloroethene	80	50	100		ppb (v/v)
1,1-Dichloroethane	ND	50	100		ppb (v/v)	Chlorobenzene	690	50	100		ppb (v/v)
Chloroform	ND	50	100		ppb (v/v)	p/m-Xylene	6700	100	100		ppb (v/v)
1,2-Dichloroethane	ND	50	100		ppb (v/v)	o-Xylene	3100	50	100		ppb (v/v)
1,1,1-Trichloroethane	ND	50	100		ppb (v/v)	Benzyl Chloride	ND	100	100		ppb (v/v)
Benzene	1200	50	100		ppb (v/v)	1,3-Dichlorobenzene	ND	50	100		ppb (v/v)
Carbon Tetrachloride	ND	50	100		ppb (v/v)	1,4-Dichlorobenzene	750	50	100		ppb (v/v)
Toluene	8200	50	100	E	ppb (v/v)	1,2-Dichlorobenzene	230	50	100		ppb (v/v)

TSI	03-04-0191-1	04/03/03	Air	N/A	04/04/03	030403L01

Parameter	Result	RL	DF	Qual	Units
Toluene	7400	200	400		ppb (v/v)

B	03-04-0191-2	04/03/03	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	1.3	2.5		ppb (v/v)	Trichloroethene	ND	1.3	2.5		ppb (v/v)
1,1-Dichloroethene	ND	1.3	2.5		ppb (v/v)	1,2-Dibromoethane	ND	1.3	2.5		ppb (v/v)
Methylene Chloride	ND	5.0	2.5		ppb (v/v)	Tetrachloroethene	ND	1.3	2.5		ppb (v/v)
1,1-Dichloroethane	ND	1.3	2.5		ppb (v/v)	Chlorobenzene	100	1	2.5		ppb (v/v)
Chloroform	ND	1.3	2.5		ppb (v/v)	p/m-Xylene	97	2	2.5		ppb (v/v)
1,2-Dichloroethane	ND	1.3	2.5		ppb (v/v)	o-Xylene	36	1	2.5		ppb (v/v)
1,1,1-Trichloroethane	ND	1.3	2.5		ppb (v/v)	Benzyl Chloride	ND	2.5	2.5		ppb (v/v)
Benzene	71	1	2.5		ppb (v/v)	1,3-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Carbon Tetrachloride	ND	1.3	2.5		ppb (v/v)	1,4-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Toluene	75	1	2.5		ppb (v/v)	1,2-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)

E3	03-04-0191-3	04/03/03	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	2.2	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	11	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	19	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	7.2	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	1.9	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	4.0	0.5	1		ppb (v/v)
Toluene	16	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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ANALYTICAL REPORT

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 04/03/03
Work Order No: 03-04-0191
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
G	03-04-0191-4	04/03/03	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	13	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	8.4	0.5	1		ppb (v/v)
Chloroform	0.54	0.50	1		ppb (v/v)	p/m-Xylene	38	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	15	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	0.56	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	2.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	4.6	0.5	1		ppb (v/v)
Toluene	27	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

D3	03-04-0191-5	04/03/03	Air	N/A	04/04/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	6.9	0.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	19	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	7.2	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	1.3	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	3.8	0.5	1		ppb (v/v)
Toluene	14	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,968	N/A	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received: 04/03/03
Work Order No: 03-04-0191
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,966	Air	GC/MS K	N/A	04/03/03	030403L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	105	107	60-140	2	0-30	
1,2-Dichloroethane	106	107	60-140	1	0-30	
Benzene	88	93	60-140	5	0-30	
Carbon Tetrachloride	106	105	60-140	0	0-30	
1,2-Dichloropropane	84	88	60-140	5	0-30	
c-1,3-Dichloropropane	92	93	60-140	1	0-30	
1,1,2-Trichloroethane	88	91	60-140	4	0-30	
Toluene	92	94	60-140	2	0-30	
Trichloroethene	94	98	60-140	4	0-30	
1,2-Dibromoethane	99	100	60-140	1	0-30	
Tetrachloroethene	100	102	60-140	2	0-30	
Ethylbenzene	92	94	60-140	1	0-30	
p/m-Xylene	98	99	60-140	1	0-30	
Bromoform	117	117	60-140	0	0-30	
o-Xylene	95	96	60-140	1	0-30	
1,4-Dichlorobenzene	115	116	60-140	1	0-30	
1,2-Dichlorobenzene	127	131	60-140	3	0-30	

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EXHIBIT 1: Sheet 5 of 8

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 03-04-0191

Qualifier	Definition
E	Concentration exceeds the calibration range.
ND	Not detected at indicated reporting limit.

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 03-0 4 - 0 1 9 1

Cooler 0 of 0

SAMPLE RECEIPT FORM

CLIENT: LABY PRODUCTS DATE: 4/3/3

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ____ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ✓ Ambient temperature. S AIR
- ____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: BK

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact) : ____ Not Applicable (N/A): ✓

Initial: BK

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation		✓	

Initial: ____

COMMENTS:

TS1 1135 received w/ condensation

EXHIBIT 1: Sheet 7 of 8

03-04-0191

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: April 3, 03

	43% 11:35	7% 9:15	ND 10:04	ND 10:55	ND 10:24					
Bag (I.D.#)	TSI	D	E3	G	D3					
Condition Received in Lab*										

Analyses Requested:

Bags Prepared By: [signature] Date: 4/3/03

Bags Taken Out By: BILL KENNEDY Time: 4/3/03 1330

Bags Taken to Lab By: BILL KENNEDY Time: 4/3/03 1445

Bags Received In Lab By: [signature] Time: 4/3/03 14:45

* F = ¾ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

J152TNBL.408

EXHIBIT 1: Sheet 8 of 8

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EXHIBIT 2

PENROSE LANDFILL - First Quarter 2003

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: Monitoring Results – March 11, 2003

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results – March 12 – 18, 2003

Exhibit 2.2.3: SRBPS Monitoring Results – April 3, 2003

Exhibit 2.2.4: Mitigation and Follow-up SRBPM Results – April 4, 7, 2003

Exhibit 2.3: SRBPS TAC Laboratory Results – April 3, 2003: Samples D and G Hydrogen Sulfide and TO-14A Analyses

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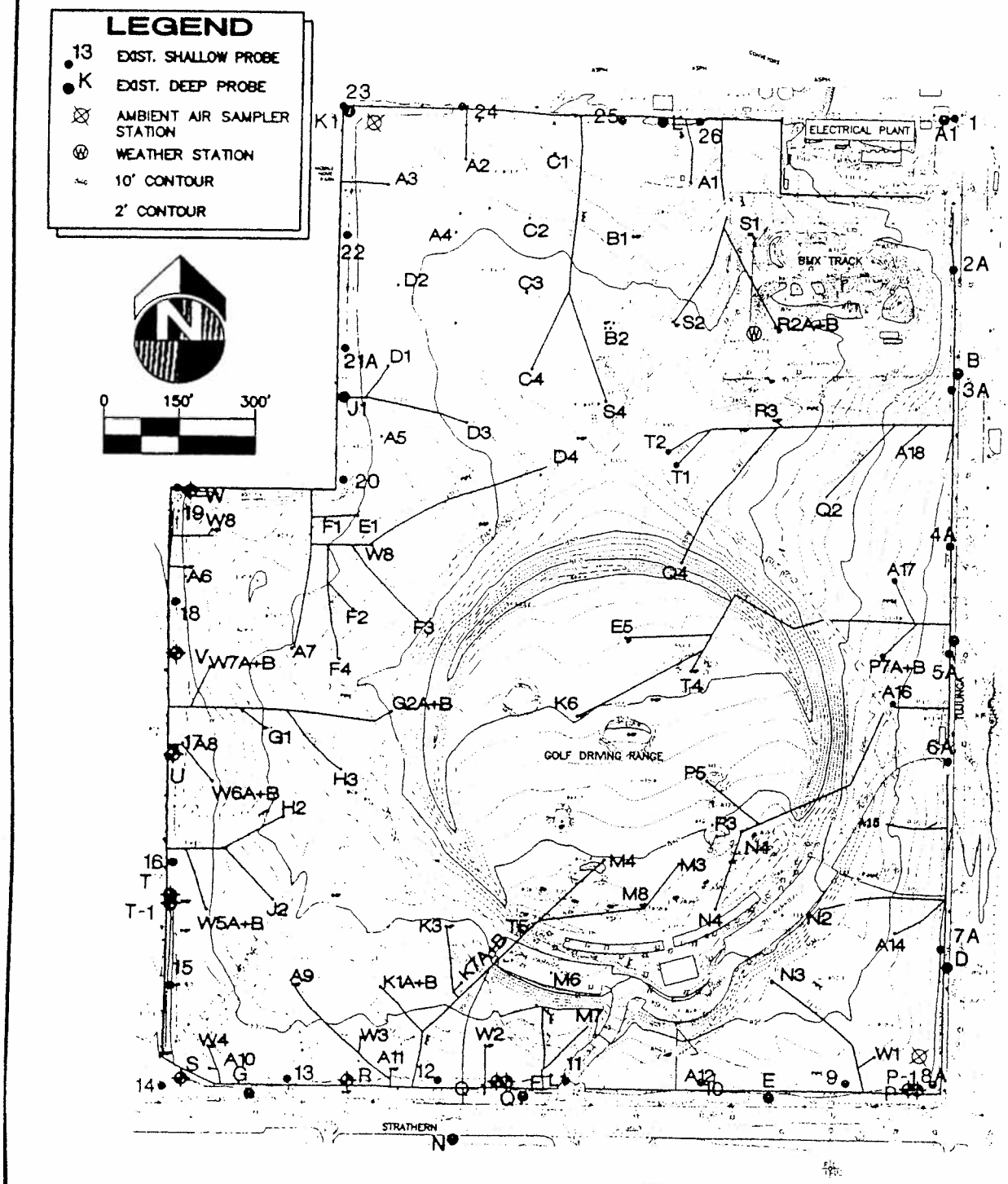
PENROSE LANDFILL
MONITORING PROBE LOCATIONS



METHANE SPECIALISTS
621 Via Alondra Suite 610 & 611
Camarillo CA, 93012
TEL: (818) 707-3036
(805) 552-0000
(805 987-5356
FAX: (805) 987-3968

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

Exhibit 2.1

SHEET ___ OF ___

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8309 Tujunga Avenue C . – Penrose
8301 Tujunga Avenue
Sun Valley, California 91352
Tel. (323) 875-1095 Fax: (818) 768-6039

JOB NAME: PENROSE LANDFILL

DATE: 03-11-03

JOB No.: J431

GAS CONCENTRATIONS

INITIALS: QTF

TIME: 0945 - 1300

INSTRUMENT: RKI. Eagle

PARAMETER: % Vol.

REMARKS: Checked 3-gas RKI Eagle w/2.5% CH4 at 244 hr 03-11-03: read 46% LEL.

PROBE #		
1	ND	
2 A	ND	
3 A	ND	
4 A	ND	
5 A	ND	
6 A	ND	
7 A	ND	
8 A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	ND	
21 A	ND	
22	ND	
23	ND	
24	ND	
25	ND	
26	ND	

PROBE #		% Vol.	Remarks
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	
	ORANGE-61'	X	missing
	RED - 81'	ND	
D		8.5	
E		ND	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	0.15	
	YELLOW-65'	ND	
	ORANGE-85'	ND	
	RED - 105'	ND	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	ND	
	80'	ND	
P-1	120'	ND	
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

R	10'	ND
	40'	ND
	80'	ND
	120'	ND
S	10'	ND
	40'	ND
	80'	ND
	120'	ND
T	10'	ND
	40'	ND
	73'	ND
T-1	72'	ND
U	10'	ND
	37'	ND
	68'	ND
V	10'	ND
	40'	ND
	73'	ND
W	10'	ND
	40'	ND
	80'	ND
	120'	ND
	158'	ND

ANY PROBE ≥ 5% CALL (323) 875-1095

METHANE SPECIALISTS
621 Via Alondra Suite 610 TEL (805)552-0000 FAX (805)987-3968

Exhibit 2.2.1

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8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

May 15, 03

Sepich Associates
Methane Specialists
621 Via Alondra, Ste 610-1
Camarillo, Ca. 93012

Re: Probe Reads on "D", 03-11-03

Mr. Alex Leucht:

"D" probe was 9.0% in volume taken at 1230, 3-12-03. Adjusted vacuum on wells N 3A + B to mitigate gas concentration on "D" probe on the same day. Kept monitoring the following days. 2.0% volume was detected at 1230, 03-13-03. No gas reads was detected after 03/14/03 through 03/18/03.

Victor Lam

Field Foreman

Exhibit 2.2.2

PENROSE LANDFILL, SUN VALLEY QUALITY CONTROL SHEET for INTEGRATED SURFACE SAMPLES (ILSS)

Parameters applicable to monitoring / sampling for Integrated Surface Samples.

Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample.

All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

OPERATION					BAG SAMPLES					COMMENTS
GRID TRAVERSED	DATE	Wind Speed	Time On	Time Off	J152-6	Valve Open	Rotameter Reading	Pump (On/Off)	OVA	
D-3	3/31/03	1.0	10:02.33	10:05.04					ND	
L-1		1.6	10:50.01	10:52.58						
M-1		3.1	10:53.42	10:56.16						
N-1		NR	10:56.55	10:59.28						
O-1		.7	11:01.25	11:03.57						
P-1		1.5	11:04.50	11:07.47						
									TOC	
TSI	4/3/03		11:35AM						43%	
D	4/3/03		9:15AM						7%	
G	4/3/03		10:55AM						ND	
									OVA	
IA E3	4/3/03	2.4	10:04AM						ND	
IA D3	4/3/03	1.6	10:24AM						ND	

NOTES: (Route traversed, TOC instrument, last rain, wind instrument and wind conditions (max ≤ 5 mph), sample container, lab used, analyses requested)

4/3/03 - Sunny Bright, Warm Temp. - Gusty - with still air.
Scattered High Clouds

rev 1-31-01, J152TABL.603

Exhibit 2.2.3

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8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

May 15, 03

Sepich Associates
Methane Specialists
621 Via Alondra Ste. 610-1
Camarillo, Ca. 93012

Re: probe "D" on 04-03-03

Mr. Alex Fendt:

Vacuum adjustment was made on Wells N3 A+B at 0845 AM, 04/04/03 To mitigate gas concentration on "D" probe.
Took reads on 04/07/03, probe "D" was clear this time, 1000 AM. No further adjustment on M.C. wells.

Victor Lam

Field Foreman

Exhibit 2.2.4

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482	Date Sampled: Date Received: Date Analyzed:	04/03/03 04/03/03 04/03/03
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	03-04-0191 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	130	5
D	ND	1
E3	ND	1
G	ND	1
D3	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	130	127	2	0 - 30

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Exhibit 2.3: Sheet 1 of 3

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	04/03/03
Work Order No:	03-04-0191
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	03-04-0191-1	04/03/03	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	50	100		ppb (v/v)	Trichloroethene	81	50	100		ppb (v/v)
1,1-Dichloroethene	ND	50	100		ppb (v/v)	1,2-Dibromoethane	ND	50	100		ppb (v/v)
Methylene Chloride	230	200	100		ppb (v/v)	Tetrachloroethene	80	50	100		ppb (v/v)
1,1-Dichloroethane	ND	50	100		ppb (v/v)	Chlorobenzene	690	50	100		ppb (v/v)
Chloroform	ND	50	100		ppb (v/v)	p/m-Xylene	6700	100	100		ppb (v/v)
1,2-Dichloroethane	ND	50	100		ppb (v/v)	o-Xylene	3100	50	100		ppb (v/v)
1,1,1-Trichloroethane	ND	50	100		ppb (v/v)	Benzyl Chloride	ND	100	100		ppb (v/v)
Benzene	1200	50	100		ppb (v/v)	1,3-Dichlorobenzene	ND	50	100		ppb (v/v)
Carbon Tetrachloride	ND	50	100		ppb (v/v)	1,4-Dichlorobenzene	750	50	100		ppb (v/v)
Toluene	8200	50	100	E	ppb (v/v)	1,2-Dichlorobenzene	230	50	100		ppb (v/v)

TSI	03-04-0191-1	04/03/03	Air	N/A	04/04/03	030403L01

Parameter	Result	RL	DF	Qual	Units
Toluene	7400	200	400		ppb (v/v)

B	03-04-0191-2	04/03/03	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	1.3	2.5		ppb (v/v)	Trichloroethene	ND	1.3	2.5		ppb (v/v)
1,1-Dichloroethene	ND	1.3	2.5		ppb (v/v)	1,2-Dibromoethane	ND	1.3	2.5		ppb (v/v)
Methylene Chloride	ND	5.0	2.5		ppb (v/v)	Tetrachloroethene	ND	1.3	2.5		ppb (v/v)
1,1-Dichloroethane	ND	1.3	2.5		ppb (v/v)	Chlorobenzene	100	1	2.5		ppb (v/v)
Chloroform	ND	1.3	2.5		ppb (v/v)	p/m-Xylene	97	2	2.5		ppb (v/v)
1,2-Dichloroethane	ND	1.3	2.5		ppb (v/v)	o-Xylene	36	1	2.5		ppb (v/v)
1,1,1-Trichloroethane	ND	1.3	2.5		ppb (v/v)	Benzyl Chloride	ND	2.5	2.5		ppb (v/v)
Benzene	71	1	2.5		ppb (v/v)	1,3-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Carbon Tetrachloride	ND	1.3	2.5		ppb (v/v)	1,4-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Toluene	75	1	2.5		ppb (v/v)	1,2-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)

E3	03-04-0191-3	04/03/03	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	2.2	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	11	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	19	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	7.2	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	1.9	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	4.0	0.5	1		ppb (v/v)
Toluene	16	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 04/03/03
Work Order No: 03-04-0191
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
G	03-04-0191-4	04/03/03	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	13	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	8.4	0.5	1		ppb (v/v)
Chloroform	0.54	0.50	1		ppb (v/v)	p/m-Xylene	38	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	15	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	0.56	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	2.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	4.6	0.5	1		ppb (v/v)
Toluene	27	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

D3	03-04-0191-5	04/03/03	Air	N/A	04/04/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	6.9	0.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	19	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	7.2	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	1.3	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	3.8	0.5	1		ppb (v/v)
Toluene	14	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,988	N/A	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Exhibit 2.3: Sheet 3 of 3

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EXHIBIT 3

PENROSE LANDFILL – First Quarter 2003

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 4)

Exhibit 3.2: ILSS TAC Laboratory Results – April 3, 2003: Samples D-3 and E-3 Hydrogen Sulfide and TO-14A Analyses

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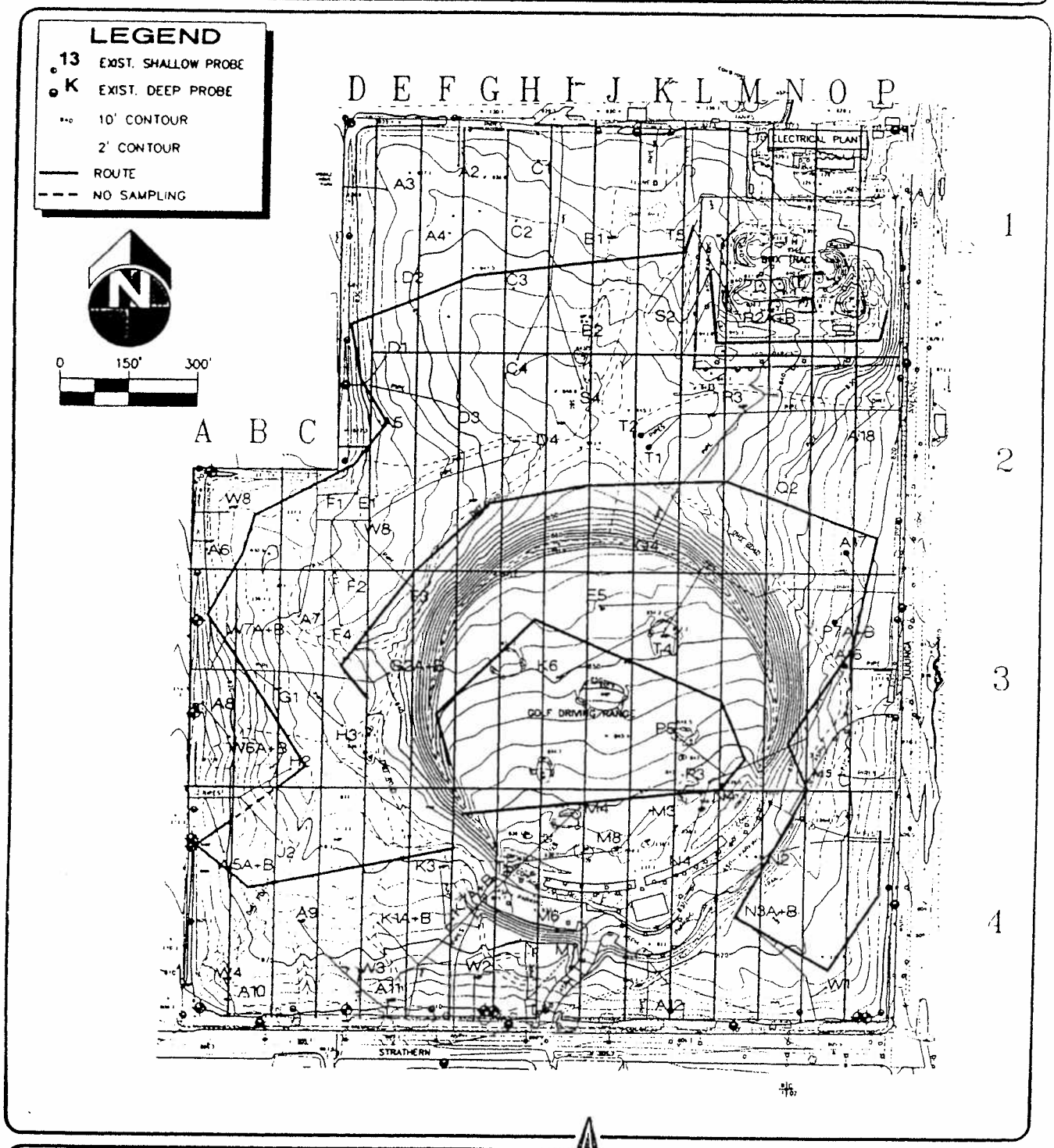
PENROSE LANDFILL

INTEGRATED SAMPLING ROUTE 4



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Los Angeles By-Products Co.
Incorporated 1925
444 Irving Drive Suite #101 Burbank CA 91504
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Exhibit 3.1

SHEET ___ OF ___

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482	Date Sampled: Date Received: Date Analyzed:	04/03/03 04/03/03 04/03/03
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	03-04-0191 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	130	5
D	ND	1
E3	ND	1
G	ND	1
D3	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	130	127	2	0 - 30

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Exhibit 3.2: Sheet 1 of 3

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	04/03/03
Work Order No:	03-04-0191
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	03-04-0191-1	04/03/03	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	50	100		ppb (v/v)	Trichloroethene	81	50	100		ppb (v/v)
1,1-Dichloroethene	ND	50	100		ppb (v/v)	1,2-Dibromoethane	ND	50	100		ppb (v/v)
Methylene Chloride	230	200	100		ppb (v/v)	Tetrachloroethene	80	50	100		ppb (v/v)
1,1-Dichloroethane	ND	50	100		ppb (v/v)	Chlorobenzene	690	50	100		ppb (v/v)
Chloroform	ND	50	100		ppb (v/v)	p/m-Xylene	6700	100	100		ppb (v/v)
1,2-Dichloroethane	ND	50	100		ppb (v/v)	o-Xylene	3100	50	100		ppb (v/v)
1,1,1-Trichloroethane	ND	50	100		ppb (v/v)	Benzyl Chloride	ND	100	100		ppb (v/v)
Benzene	1200	50	100		ppb (v/v)	1,3-Dichlorobenzene	ND	50	100		ppb (v/v)
Carbon Tetrachloride	ND	50	100		ppb (v/v)	1,4-Dichlorobenzene	750	50	100		ppb (v/v)
Toluene	8200	50	100	E	ppb (v/v)	1,2-Dichlorobenzene	230	50	100		ppb (v/v)

TSI	03-04-0191-1	04/03/03	Air	N/A	04/04/03	030403L01

Parameter	Result	RL	DF	Qual	Units
Toluene	7400	200	400		ppb (v/v)

D	03-04-0191-2	04/03/03	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	1.3	2.5		ppb (v/v)	Trichloroethene	ND	1.3	2.5		ppb (v/v)
1,1-Dichloroethene	ND	1.3	2.5		ppb (v/v)	1,2-Dibromoethane	ND	1.3	2.5		ppb (v/v)
Methylene Chloride	ND	5.0	2.5		ppb (v/v)	Tetrachloroethene	ND	1.3	2.5		ppb (v/v)
1,1-Dichloroethane	ND	1.3	2.5		ppb (v/v)	Chlorobenzene	100	1	2.5		ppb (v/v)
Chloroform	ND	1.3	2.5		ppb (v/v)	p/m-Xylene	97	2	2.5		ppb (v/v)
1,2-Dichloroethane	ND	1.3	2.5		ppb (v/v)	o-Xylene	36	1	2.5		ppb (v/v)
1,1,1-Trichloroethane	ND	1.3	2.5		ppb (v/v)	Benzyl Chloride	ND	2.5	2.5		ppb (v/v)
Benzene	71	1	2.5		ppb (v/v)	1,3-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Carbon Tetrachloride	ND	1.3	2.5		ppb (v/v)	1,4-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Toluene	75	1	2.5		ppb (v/v)	1,2-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)

E3	03-04-0191-3	04/03/03	Air	N/A	04/03/03	030403L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	2.2	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	11	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	19	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	7.2	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	1.9	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	4.0	0.5	1		ppb (v/v)
Toluene	16	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Exhibit 3.2: Sheet 2 of 3

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METHANE SPECIALISTS
621 Via Alondra Suite 611
Camarillo CA, 93012
www.methanespecialists.com
TEL (805) 987-5356
FAX(805) 987-3968

August 14, 2003
Job # 152-6

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

RECEIVED
AUG 18 2003
L.A. BY-PROD. CO.

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Second Quarter, 2003
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the thirty-ninth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period April through June 2003. This is the thirteenth quarterly report submitted under the 1999 revised version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill.

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the second quarter of 2003. Three exceedances were detected from *subsurface refuse boundary probes* (SRBP).

1. Reporting Requirements

South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2003 second quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on April 21, 23, and 24, May 22 and 23, and June 26 and 27, 2003. In addition, TOC monitoring (a non-compliance

monitoring event performed by Methane Specialists for the City of Los Angeles, Environmental Affairs Department (LEA) requirements) was performed on April 11, May 13, and June 10, 2003. LEA Inspector monitoring of selected probes were reported for April 11, May 19, and June 20, 2003, during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes D and G were sampled on June 30, 2003).

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 1 traversed, monitored on June 17, 23, and 26 and sampled for TOC with and FID. Grids E-4 and F-4 were sampled for TAC laboratory analyses on June 30, 2003).

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on April 18, May 13, and June 8, 2003. In April and June Path A was monitored, and in May Path B was monitored.

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection, header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled June 30, 2003).

All monitoring and sampling activities, except for agency inspections, the bi-monthly (non-compliance) probe monitoring, and follow-up mitigation and monitoring were performed by Los Angeles By-Products (LABP) personnel.

2. Record Keeping Requirements

Section (f)(1) of the Rule describes the record keeping requirements. Section (f)(1) of the Rule describes the record keeping requirements. The RECORDS are available for SCAQMD inspection at the Strathern Landfill weigh station on the east side of Tujunga Avenue across from Penrose Landfill. Section (f)(2) of the Rule requires that this report contain documentation regarding exceedances (and follow-up mitigation measures and results) and TAC laboratory results. The requirements regarding exceedances are summarized in the text of this report and required supplemental documentation is included as attachments in the EXHIBITS with this report. The TAC results are included as EXHIBITS with this report.

The list below inventories the documents supplemental to this report, and required by the Rule, that are available as RECORDS in concurrence with Section (f)(1), but are not included with this report:

- Maps showing ILSM traverse routes; and
- Quality Control Sheets (QCS) for SRBPM, SRBPS, ILSS, ILSM (maps only), and TSI.

3. Control System - 8309 Tujunga Avenue Corp. (8309 TAC) - Penrose Power Plant

Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at 8309 TAC's Plant at 8301 Tujunga Avenue, Sun Valley.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

4. Compliance Probe Monitoring Results

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on April 22, 23, and 24, May 22 and 23, and June 26 and 27, 2003. Results: There was one exceedance detected in compliance probes during these second quarter 2003 monitoring events (6% of volume detected in Probe D on May 23). Two exceedances were detected in compliance probes during probe monitoring for LEA compliance at Probe D and Probe V on May 13, 2003.

Exceedance 1: 05-13-03: 6.5% of volume at Probe D (see EXHIBIT 2.2.1).

Mitigation Measures and Follow-up Results: 05-14, 15, 19-03: according to the Rule, the first mitigation measure is to make extraction well adjustments (Wells N3A&B flow rates were increased at ~1230 hours May 14). Follow-up monitoring results on May 15 and 19, at Probe D are presented in EXHIBIT 2.2.2 (Probe D read non-detect (ND) at % of volume range on both days).

Exceedance 2: 05-13-03: 5.5% of volume at Probe V @ 73' (see EXHIBIT 2.2.1).

Mitigation Measures and Follow-up Results: 05-14, 15, 19-03: according to the Rule, the first mitigation measure is to make extraction well adjustments (Well W7A flow rate was increased at ~1230 hours May 14). Follow-up monitoring results on May 15 and 19, at Probe V are presented in EXHIBIT 2.2.2 (Probe V @ 73' read ND on both days).

Exceedance 3: 05-23-03: 6% of volume at Probe D (see EXHIBIT 2.2.3).

Mitigation Measures and Follow-up Results: 05-26 through 30-03: according to the Rule, the first mitigation measure is to make extraction well adjustments (Wells N3A&B flow rates were not increased on May 26 because results were ND at ~1230 hours May 26).

Follow-up monitoring results on May 27, 28, 29, and 30 at Probe D were all ND (see EXHIBIT 2.2.2).

5. Compliance Probe Sampling Results

Two probe TAC samples were collected on June 30, 2003 from Probes D and G. The field TOC was non-detect from Probe G and 1.5% by volume from Probe D as read with a GasTech Natural Gas Indicator, Model NPL-204, calibrated to methane (CH_4) Sample I.D.# s D and G are included in EXHIBIT 2.3.

6. Integrated Landfill Surface Sampling (ILSS) Results: (see traverse map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). The two samples collected for laboratory analyses, E-4 from grid E-4 and F-4 from grid F-4 read ND as measured by a Foxboro FID. The other 57 samples also registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results (samples ISS E4 and ISS F4) in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. Instantaneous Landfill Surface Monitoring (ILSM) Results

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On April 18 and June 8 Path A was monitored, and on May 13 Path B was monitored. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

8. Toxic Air Contaminant Results

As required by Section (f)(2)(B)(ii) of the Rule, second quarter 2003 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) — EXHIBIT 1;
- SRBPS (Samples D and G') — EXHIBIT 2.3; and
- ILSS (Samples E4 and F4) — EXHIBIT 3.2.

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9. Certification

This quarterly report and certification is based upon Methane Specialists' understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas, migration control and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the Second Quarter of 2003.

Sincerely,
Methane Specialists

LICENSED PROFESSIONAL ENGINEER
CHARLES N. McCORMICK
C62534
JUNE 30, 2005
STATE OF CALIFORNIA

Charles N. McCormick, P.E.

Distribution:

SCAQMD, Mr. Rich Tambara, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado

California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for Second Quarter 2003 Report

EXHIBIT 1 - Control Device Laboratory Results

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – June 30, 2003

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

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Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: SRBPM Monitoring Results – May 13, 2003

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results – May 14, 15, 19, and 26 - 30, 2003

Exhibit 2.2.3: SRBPM Monitoring Results – May 23, 2003

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – June 30, 2003

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 1)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses – June 30, 2003

J152REPT.639

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EXHIBIT 1

PENROSE LANDFILL - Second Quarter 2003

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results – June 30, 2003: Sample TSI

Hydrogen Sulfide and TO-14A Analyses

EXHIBIT 1: Sheet 1 of 9

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Calscience Environmental Laboratories, Inc.

July 08, 2003

Robert McAllister
L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.: 03-06-1647**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/30/03 and analyzed in accordance with the attached chain of custody and the facsimile dated 7/01/03.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

EXHIBIT 1: Sheet 2 of 9

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482	Date Sampled: Date Received: Date Analyzed:	06/30/03 06/30/03 06/30/03
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	03-06-1647 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
PPS "G"	ND	1
PPS "D"	ND	1
ISS F4	ND	1
ISS E4	ND	1
TSI	112	5
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	112	112	0	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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EXHIBIT 1: Sheet 3 of 9

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/30/03
Work Order No: 03-06-1647
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS E4	03-06-1647-4	06/30/03	Air	N/A	07/01/03	030701L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	3.2	0.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	73	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	29	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	6.4	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	2.4	0.5	1		ppb (v/v)
Toluene	60	1	2	D	ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

TSI	03-06-1647-5	06/30/03	Air	N/A	07/01/03	030701L01	

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	200	38	75		ppb (v/v)	Trichloroethene	95	38	75		ppb (v/v)
1,1-Dichloroethene	ND	38	75		ppb (v/v)	1,2-Dibromoethane	ND	38	75		ppb (v/v)
Methylene Chloride	ND	150	75		ppb (v/v)	Tetrachloroethene	76	38	75		ppb (v/v)
1,1-Dichloroethane	ND	38	75		ppb (v/v)	Chlorobenzene	720	38	75		ppb (v/v)
Chloroform	ND	38	75		ppb (v/v)	p/m-Xylene	6100	75	75		ppb (v/v)
1,2-Dichloroethane	ND	38	75		ppb (v/v)	o-Xylene	3000	38	75		ppb (v/v)
1,1,1-Trichloroethane	ND	38	75		ppb (v/v)	Benzyl Chloride	ND	75	75		ppb (v/v)
Benzene	1400	38	75		ppb (v/v)	1,3-Dichlorobenzene	ND	38	75		ppb (v/v)
Carbon Tetrachloride	ND	38	75		ppb (v/v)	1,4-Dichlorobenzene	600	38	75		ppb (v/v)
Toluene	8200	380	750	D	ppb (v/v)	1,2-Dichlorobenzene	160	38	75		ppb (v/v)

Method Blank	095-01-021-2,067	N/A	Air	N/A	07/01/03	030701L01	

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/30/03
Work Order No: 03-06-1647
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**095-01-021-2,068**	**N/A**	**Air**	**N/A**	**07/02/03**	**0307021.01**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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EXHIBIT 1: Sheet 5 of 9

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received: 06/30/03
Work Order No: 03-06-1647
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-2,067	Air	GC/MS V	N/A	07/01/03	030701L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	65	76	61-127	15	0-20	
1,2-Dichloroethane	90	96	66-126	9	0-19	
Benzene	82	92	64-118	12	0-17	
Carbon Tetrachloride	97	110	63-129	13	0-18	
1,2-Dichloropropane	83	93	64-118	12	0-17	
c-1,3-Dichloropropene	89	101	66-120	12	0-18	
1,1,2-Trichloroethane	86	97	68-118	11	0-18	
Toluene	83	90	64-118	8	0-17	
Trichloroethene	85	98	68-116	14	0-17	
1,2-Dibromoethane	87	95	66-120	9	0-17	
Tetrachloroethene	88	98	65-119	11	0-17	
Ethylbenzene	88	96	69-117	10	0-17	
p/m-Xylene	90	99	68-116	10	0-17	
Bromoform	102	115	73-127	12	0-17	
o-Xylene	90	100	73-115	11	0-17	
1,4-Dichlorobenzene	120	137	72-138	13	0-20	
1,2-Dichlorobenzene	124	139	61-151	11	0-22	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received: 06/30/03
Work Order No: 03-06-1647
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-2,068	Air	GC/MS V	N/A	07/02/03	030702L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	91	90	61-127	1	0-20	
1,2-Dichloroethane	94	86	66-126	9	0-19	
Benzene	90	89	64-118	1	0-17	
Carbon Tetrachloride	99	89	63-129	11	0-18	
1,2-Dichloropropane	96	94	64-118	2	0-17	
c-1,3-Dichloropropene	102	99	66-120	3	0-18	
1,1,2-Trichloroethane	102	97	68-116	4	0-18	
Toluene	81	84	64-118	4	0-17	
Trichloroethene	95	94	68-116	1	0-17	
1,2-Dibromoethane	90	92	66-120	2	0-17	
Tetrachloroethene	88	89	65-119	1	0-17	
Ethylbenzene	90	90	69-117	1	0-17	
p/m-Xylene	90	87	68-116	3	0-17	
Bromoform	106	94	73-127	12	0-17	
o-Xylene	93	87	73-115	6	0-17	
1,4-Dichlorobenzene	126	105	72-138	19	0-20	
1,2-Dichlorobenzene	128	105	61-151	19	0-22	

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 03-06-1647

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: LA Dry Products DATE: 6/30/03

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ____ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ✓ Ambient temperature.
- ____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact): ____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

EXHIBIT 1: Sheet 8 of 9

CONFIDENTIAL

06-1647

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 6/30/03

Bag (I.D.#)	PPS "G"	PPS "D"	ISS #4	ISS #4	TBI					
Condition Received in Lab*										

Analyses Requested: CORE GROUP; METHANE; H2S
SAME AS LAST QUARTER

Bags Prepared By: Robert McAllister Time:

Date: 6/30/03

Bags Taken Out By: [illegible] Time: 1225

Bags Taken to Lab By: [illegible] Time: 1345

Bags Received In Lab By: [illegible] Time: 1400

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,
E = Less than ¼ full but contains some sample, N = No sample at all.

J152TABL.408

EXHIBIT 1: Sheet 9 of 9

CONFIDENTIAL

EXHIBIT 2

PENROSE LANDFILL - Second Quarter 2003

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: Monitoring Results – May 13, 2003

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results – May 14, 15, 19, & 26 – 30, 2003

Exhibit 2.2.3: SRBPM Monitoring Results – May 23, 2003

Exhibit 2.3: SRBPS TAC Laboratory Results – June 30, 2003: Samples D and G Hydrogen Sulfide and TO-14A Analyses

CONFIDENTIA

J481

PENROSE LANDFILL MONITORING PROBE LOCATIONS

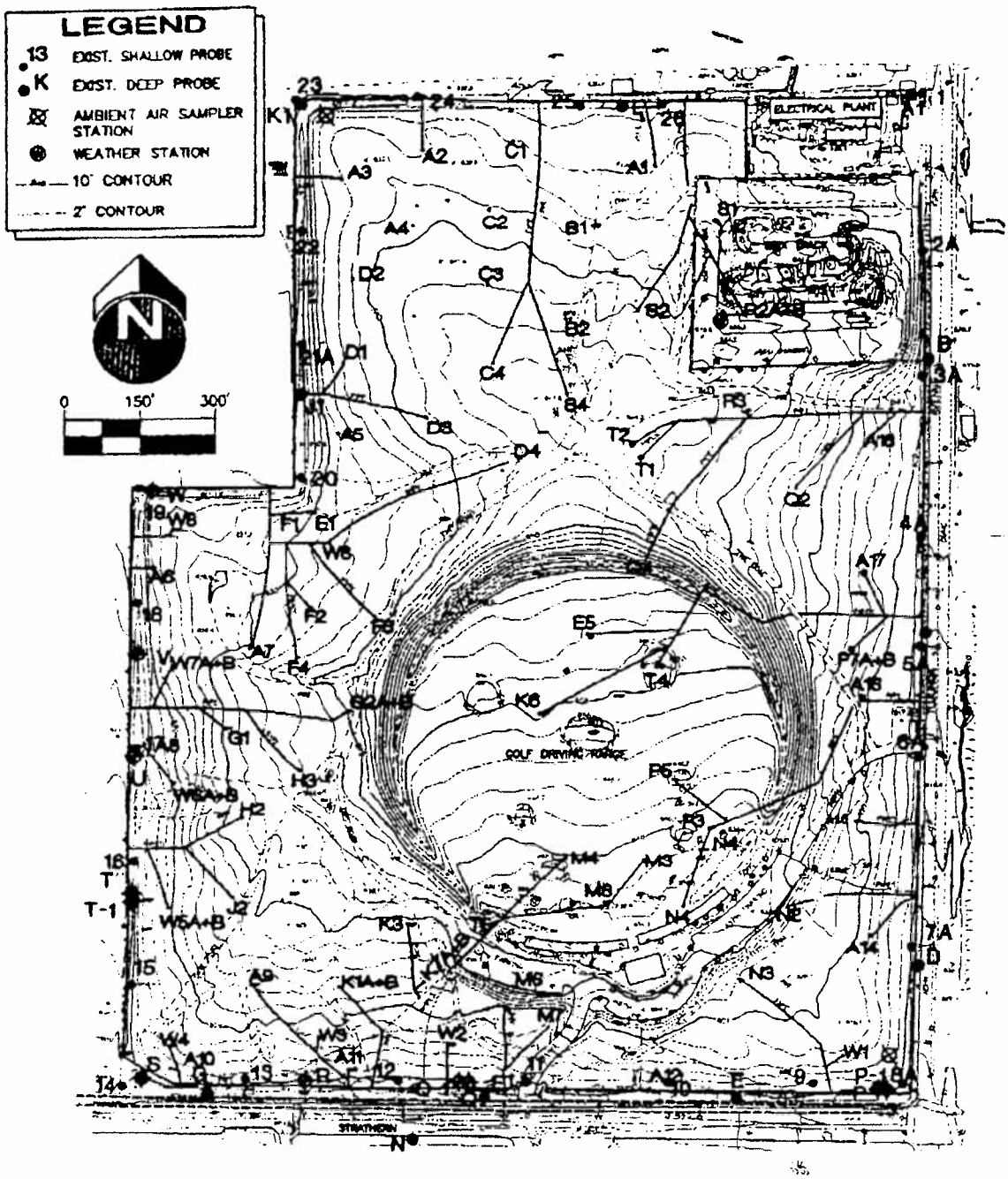

Exhibit 2.1

METHANE SPECIALISTS
680 WALNUT ST.
MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001
CIVIL ENGINEERS SANITARY ENVIRONMENTAL WASTE AND GAS CONTROL SPECIALISTS

8309 Tujunga Avenue Corp. – Penrose
8301 Tunjunga Avenue
Sun Valley, California 91352
Tel: (323) 875-1095 Fax: (818) 768-6039

SHEET ___ OF ___

CONFIDENTIA

8309 Tujunga Avenue Corp. – Penrose
8301 Tujunga Avenue
Sun Valley, California 91352
Tel: (323) 875-1095 Fax: (818) 768-8039

JOB NAME: PENROSE LANDFILL

DATE: 05-13-03

JOB No.: J4B1

GAS CONCENTRATIONS

INITIALS: CTF

TIME: 1305-1600

INSTRUMENT: RKI Eagle

PARAMETER: % Vol.

REMARKS: Calibrated RKI Eagle to 2.5% CH4 at 1080hr 05-13-03. (A) read as a stabilized reading of 65% LEL (initial reading was a peak of 10% volume).

PROBE #		
1	ND	
2 A	ND	
3 A	ND	
4 A	ND	
5 A	ND	
6 A	ND	
7 A	ND	
8 A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	3.25 (A)	
21 A	ND	
22	ND	
23	ND	
24	ND	
25	ND	
26	ND	

PROBE #			
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	
	ORANGE-61'	X	Lost
	RED - 81'	ND	
D		6.5	
E		ND	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	0.2	
	YELLOW-65'	ND	
	ORANGE-85'	ND	
	RED - 105'	0.8	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	ND	
	80'	ND	
P-1	120'	ND	
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

R	10'	ND
	40'	ND
	80'	ND
	120'	ND
S	10'	ND
	40'	ND
	80'	ND
	120'	ND
T	10'	ND
	40'	ND
	73'	ND (V)
T-1	72'	ND
U	10'	ND
	37'	ND
	88'	ND
V	10'	ND
	40'	ND
	73'	5.5
W	10'	ND
	40'	ND
	80'	ND
	120'	ND
	158'	ND

Exhibit 2.2.1

ANY PROBE ≥ 5% CALL (323) 875-1095

METHANE SPECIALISTS
621 Via Alondra Suite 610 TEL (805)552-0000 FAX (805)987-3986

CONFIDENTIAL

8308 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

August 14, 03

Sepid Associates
Methane Specialists
621 Via Alondra, Ste 610-1
Camarillo, Ca. 93012

Re: Gas detection on probes "D" and "V"

Mr. Alex Jeuelt:

Vacuum adjustments on Wells N3A+B and W7A at 1230, May 14, 03 for mitigating gas migration on probes "D" and "V" 73'.
No gas was detected @ 1300, May 15, 03
Follow-up monitoring on May 19, 03. Probes "D" and "V" all clear up.
Monitored probe "D" at 1230 May 26, 03. No gas detection this time. No further vacuum adjustment on gas wells N3A+B.
Follow-up monitoring daily on probe "D" through May 30, 03. No gas concentration was detected.

Victor Lam
Field foreman

Exhibit 2.2.2

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE: 5/22/03

PAGE 2

PROBE #	DESIGNATION DEPTH	Time on	Time off	VOC/CH_4 (% VOLUME)	REMARKS
A-1		2:12.52	2:14.19	ND	5/22/03
B		[redacted]	[redacted]		2:27.27 / 2:29.05
C	GREEN-21'	1:33.58	1:35.32		5/23/03
	YELLOW-41'	1:32.30	1:33.42		
	~~ORANGE-61'~~				
	RED - 81'	1:35.55	1:39.39		
D		2:34.36	2:37.19	[redacted]	6%
E		2:40.01	2:41.14		
F		2:43.50	2:45.03		5/22/03
G		2:47.50	2:49.02		
J-1		10:52.50	10:54.19		
K-1		10:41.26	10:42.42		
L	GREEN-45'	10:25.31	10:26.20		
	YELLOW-65'	10:27.07	10:28.16		4ppm PS.
	ORANGE-85'	10:28.42	10:30.31		.4%
	RED - 105'	10:30.49	10:32.09		.4%
N	GREEN-22'	2:54.53	2:56.05		5/23/03
	YELLOW-45'	2:53.22	2:54.20		
	ORANGE-68'	2:51.52	2:53.03		
	RED - 90'	2:56.34	2:57.41		
P	10'	1:48.16	1:49.07		5/22/03
	40'	1:47.15	1:48.01		
	80'	1:46.14	1:47.00		
P-1	120'	1:49.36	1:50.36		
Q	10'	2:01.03	2:02.03		
	40'	2:02.19	2:03.18		
	75'	2:03.34	2:04.31		
Q-1	120'	2:05.06	2:06.17		
	158'	2:06.31	2:08.10		

Exhibit 2.2.3

SEPTECH ASSOCIATES/METHANE SPECIALISTS, 680 WALNUT ST., MOORPARK, CA 93021 TEL (818) 707-3036, FAX (818) 707-3012

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	06/30/03
4050 Katella Avenue, Suite 209	Date Received:	06/30/03
Los Alamitos, CA 90720-3482	Date Analyzed:	06/30/03
	Work Order No.:	03-06-1647
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
PPS "G"	ND	1
PPS "D"	ND	1
ISS F4	ND	1
ISS E4	ND	1
TSI	112	5
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	112	112	0	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Exhibit 2.3: Sheet 1 of 2

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
4050 Katella Avenue. Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/30/03
Work Order No: 03-06-1647
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPS "C"	03-06-1647-1	06/30/03	Air	N/A	07/01/03	030701L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	7.2	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	10	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	53	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	19	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	5.4	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	5.4	0.5	1		ppb (v/v)
Toluene	49	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

PPS "D"	03-06-1647-2	06/30/03	Air	N/A	07/01/03	030701L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	33	2	5		ppb (v/v)	Trichloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethene	ND	2.5	5		ppb (v/v)	1,2-Dibromoethane	ND	2.5	5		ppb (v/v)
Methylene Chloride	ND	10	5		ppb (v/v)	Tetrachloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethane	4.0	2.5	5		ppb (v/v)	Chlorobenzene	110	2	5		ppb (v/v)
Chloroform	ND	2.5	5		ppb (v/v)	p/m-Xylene	200	5	5		ppb (v/v)
1,2-Dichloroethane	ND	2.5	5		ppb (v/v)	o-Xylene	75	2	5		ppb (v/v)
1,1,1-Trichloroethane	ND	2.5	5		ppb (v/v)	Benzyl Chloride	ND	5.0	5		ppb (v/v)
Benzene	50	2	5		ppb (v/v)	1,3-Dichlorobenzene	ND	2.5	5		ppb (v/v)
Carbon Tetrachloride	ND	2.5	5		ppb (v/v)	1,4-Dichlorobenzene	5.2	2.5	5		ppb (v/v)
Toluene	170	2	5		ppb (v/v)	1,2-Dichlorobenzene	ND	2.5	5		ppb (v/v)

ISS F4	03-06-1647-3	06/30/03	Air	N/A	07/01/03	030701L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	5.7	0.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	77	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	30	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	7.4	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	3.7	0.5	1		ppb (v/v)
Toluene	62	1	2	D	ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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Exhibit 2.3: Sheet 2 of 2

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EXHIBIT 3

PENROSE LANDFILL – Second Quarter 2003

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 1)

Exhibit 3.2: ILSS TAC Laboratory Results – June 30, 2003: Samples E4 and F4

Hydrogen Sulfide and TO-14A Analyses

J152-6

PENROSE LANDFILL
INTEGRATED SAMPLING ROUTE 1

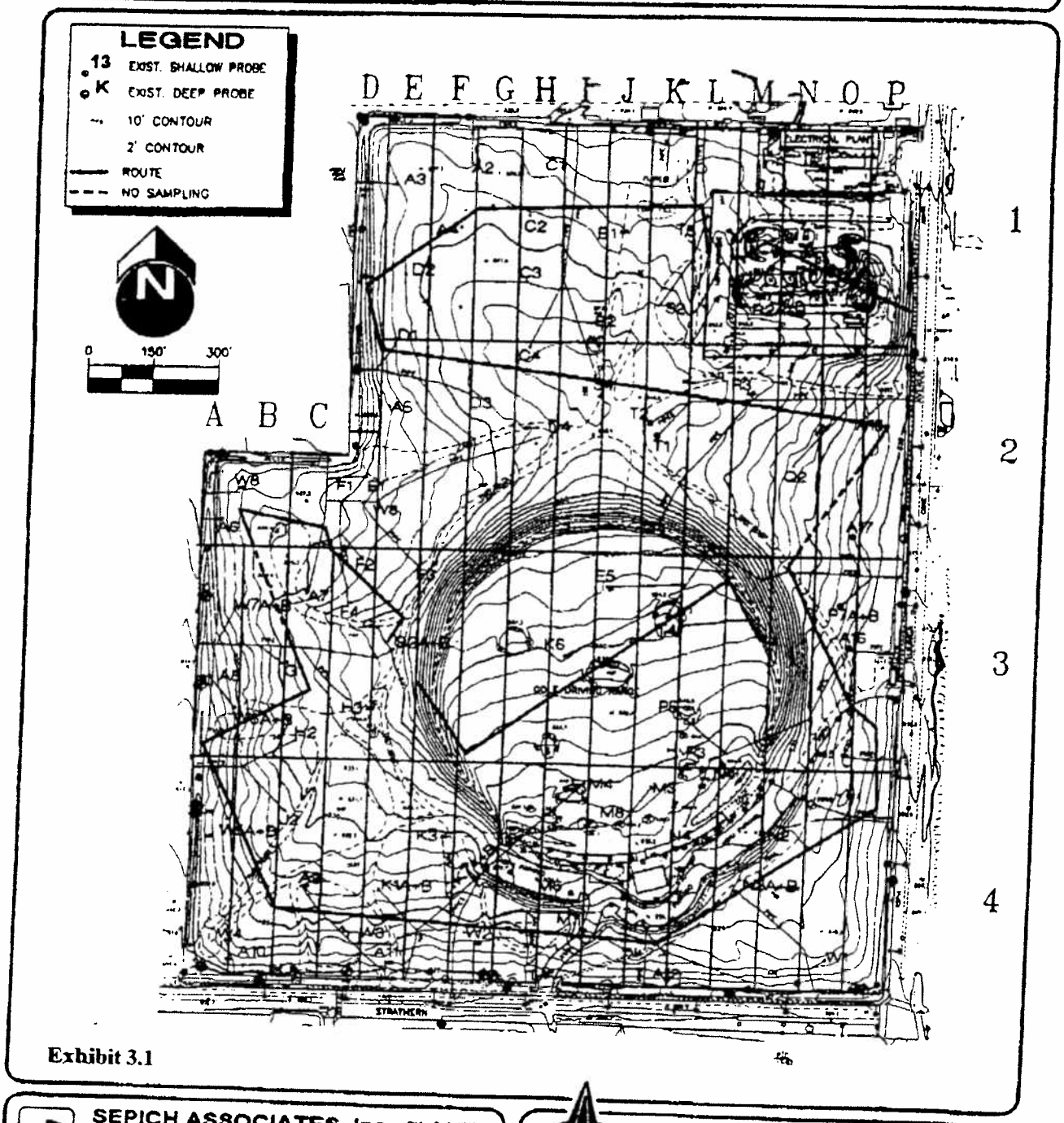

Exhibit 3.1

SEPICH ASSOCIATES, Inc.
680 WALNUT ST.
MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001
CIVIL ENGINEERS
SANITARY-ENVIRONMENTAL
WASTE AND GAS CONTROL
SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
444 Irving Drive Suite #101 Burbank CA 91504
Tel: (818) 845-4489 Fax: (818) 846-1011

SHEET ___ OF ___

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	06/30/03
4050 Katella Avenue, Suite 209	Date Received:	06/30/03
Los Alamitos, CA 90720-3482	Date Analyzed:	06/30/03
	Work Order No.:	03-06-1647
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
PPS "G"	ND	1
PPS "D"	ND	1
ISS F4	ND	1
ISS E4	ND	1
TSI	112	5
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	112	112	0	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Exhibit 3:2: Sheet 1 of 2

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/30/03
Work Order No: 03-06-1647
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPS "G"	03-06-1647-1	06/30/03	Air	N/A	07/01/03	030701L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	7.2	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	10	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	53	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	19	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	5.4	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	5.4	0.5	1		ppb (v/v)
Toluene	49	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

PPS "D"	03-06-1647-2	06/30/03	Air	N/A	07/01/03	030701L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	33	2	5		ppb (v/v)	Trichloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethene	ND	2.5	5		ppb (v/v)	1,2-Dibromoethane	ND	2.5	5		ppb (v/v)
Methylene Chloride	ND	10	5		ppb (v/v)	Tetrachloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethane	4.0	2.5	5		ppb (v/v)	Chlorobenzene	110	2	5		ppb (v/v)
Chloroform	ND	2.5	5		ppb (v/v)	p/m-Xylene	200	5	5		ppb (v/v)
1,2-Dichloroethane	ND	2.5	5		ppb (v/v)	o-Xylene	75	2	5		ppb (v/v)
1,1,1-Trichloroethane	ND	2.5	5		ppb (v/v)	Benzyl Chloride	ND	5.0	5		ppb (v/v)
Benzene	50	2	5		ppb (v/v)	1,3-Dichlorobenzene	ND	2.5	5		ppb (v/v)
Carbon Tetrachloride	ND	2.5	5		ppb (v/v)	1,4-Dichlorobenzene	5.2	2.5	5		ppb (v/v)
Toluene	170	2	5		ppb (v/v)	1,2-Dichlorobenzene	ND	2.5	5		ppb (v/v)

ISS F4	03-06-1647-3	06/30/03	Air	N/A	07/01/03	030701L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	5.7	0.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	77	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	30	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	7.4	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	3.7	0.5	1		ppb (v/v)
Toluene	62	1	2	D	ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Exhibit 3.2: Sheet 2 of 2

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	06/30/03
Work Order No:	03-06-1647
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS E4	03-06-1647-4	06/30/03	Air	N/A	07/01/03	030701L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	3.2	0.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	73	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	29	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	6.4	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	2.4	0.5	1		ppb (v/v)
Toluene	60	1	2	D	ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

TS1	03-06-1647-5	06/30/03	Air	N/A	07/01/03	030701L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	200	38	75		ppb (v/v)	Trichloroethene	95	38	75		ppb (v/v)
1,1-Dichloroethene	ND	38	75		ppb (v/v)	1,2-Dibromoethane	ND	38	75		ppb (v/v)
Methylene Chloride	ND	150	75		ppb (v/v)	Tetrachloroethene	76	38	75		ppb (v/v)
1,1-Dichloroethane	ND	38	75		ppb (v/v)	Chlorobenzene	720	38	75		ppb (v/v)
Chloroform	ND	38	75		ppb (v/v)	p/m-Xylene	6100	75	75		ppb (v/v)
1,2-Dichloroethane	ND	38	75		ppb (v/v)	o-Xylene	3000	38	75		ppb (v/v)
1,1,1-Trichloroethane	ND	38	75		ppb (v/v)	Benzyl Chloride	ND	75	75		ppb (v/v)
Benzene	1400	38	75		ppb (v/v)	1,3-Dichlorobenzene	ND	38	75		ppb (v/v)
Carbon Tetrachloride	ND	38	75		ppb (v/v)	1,4-Dichlorobenzene	600	38	75		ppb (v/v)
Toluene	8200	380	750	D	ppb (v/v)	1,2-Dichlorobenzene	160	38	75		ppb (v/v)

Method Blank	095-01-021-2,067	N/A	Air	N/A	07/01/03	030701L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Exhibit 3.2: Sheet 2 of 2

February 12, 2004
Job # TP152

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Fourth Quarter, 2003
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the forty-first quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October through December 2003. This is the fifteenth quarterly report submitted under the 1999 revised version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill.

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the fourth quarter of 2003. Seven exceedances were detected from *subsurface refuse boundary probes* (SRBP).

1. Reporting Requirements

South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2003 fourth quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on October 30 and 31, November 21, 24, and 25, and December 17 and 19, 2003. Probe TOC (non-compliance) monitoring

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was performed by Methane Specialists on October 8 and November 12, and by Terra-Petra, Inc. on December 9, 2003, for the City of Los Angeles, Environmental Affairs Department (LEA) requirements. The LEA Inspector monitoring of selected probes were reported for October 31, November 25, and December 19, 2003, during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes D, Q at 10', 40', and 75', and U at 68' were sampled on December 22, 2003).

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 3 traversed, sampled, and monitored for TOC on December 9, 17, and 19, 2003; Grids J-4 and K-4 were sampled for TAC laboratory analyses on January 22, 2003).

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on October 23, November 24, and December 19, 2003. In October and December Path A was monitored, and in November Path B was monitored.

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection, header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled December 22, 2003).

- Collect (annually) ambient air samples (AAS) to determine the concentration of TOC and TAC from upwind (background) locations and downwind locations. Per Attachment A, Section 5.1: "....ambient air samples shall be collected for analysis at the landfill property boundary from both an upwind and downwind sampler sited to provide good meteorological exposure to the predominant offshore (drainage land breeze) and on-shore (sea breeze) wind flow patterns. The upwind and downwind samples shall be collected simultaneously over two 12 hour periods beginning between 9:00 a.m. and 10:00 a.m., and 9:00 p.m. and 10:00 p.m. on the same day or different days." (sampled January 13 and 14, 2004).

All monitoring and sampling activities, except for agency inspections, the monthly (non-compliance) probe monitoring, the ambient air sampling, and monitoring for TOC were performed by Los Angeles By-Products (LABP) personnel.

2. Record Keeping Requirements

Section (f)(1) of the Rule describes the record keeping requirements. Section (f)(1) of the Rule describes the record keeping requirements. The RECORDS are available for SCAQMD inspection at the Strathern Landfill weigh station on the east side of Tujunga Avenue across from Penrose Landfill. Section (f)(2) of the Rule requires that this report contain documentation regarding exceedances (and follow-up mitigation measures and results) and TAC laboratory results. The requirements regarding exceedances are summarized in the text of this report and required supplemental documentation is included as attachments in the EXHIBITS with this report. The TAC results are included as EXHIBITS with this report.

The list below inventories the documents supplemental to this report, and required by the Rule, that are available as RECORDS in concurrence with Section (f)(1), but are not included with this report.

- Wind speed and direction data during the AAS event;
- Maps showing ILSM traverse routes; and
- Quality Control Sheets (QCS) for SRBPM, SRBPS, ILSS, ILSM (maps only), TSI, and AAS.

3. Control System - 8309 Tujunga Avenue Corp. (8309 TAC) - Penrose Power Plant

Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at 8309 TAC's Plant at 8301 Tujunga Avenue, Sun Valley.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

4. Compliance Probe Monitoring Results

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on October 30 and 31, November 21, 24, and 25, and December 17 and 19, 2003. Results: There were five exceedances detected during Rule 1150.1 compliance probe monitoring events during the fourth quarter 2003. Two exceedances were detected in compliance probes during other probe monitoring events during the quarter.

Exceedances 1, 2, and 3: 10-30-03: 37%, 15%, and 10% of volume at Probe Q depths at 10', 40', and 75', respectively (see EXHIBIT 2.2.1).

Mitigation Measures and Follow-up Results: 10-31, 11-3, 4, and 5 -03: according to the Rule,

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the first mitigation measure is to make extraction well adjustments (Well W2 flow rates were increased at ~ 1330 hours, 10-31-03). Follow-up monitoring was performed on November 3, 4, and 5 at Probe Q (see EXHIBIT 2.2.2 (The Probe Q probes read ND at ~ 1400 hours, 11-05-03)).

Exceedance 4: 10-30-03: 5% of volume at Probe U at 68' (see EXHIBIT 2.2.3).

Mitigation Measures and Follow-up Results: 10-31, 11-3, 4, and 5 -03: Wells W6A & B vacuum adjustments were made ~ 1330 hours, 10-31-03. Follow-up monitoring was performed on November 3, 4, and 5 at Probe U (see EXHIBIT 2.2.2 (Probe U at 68' read ND at ~ 1400 hours, 11-05-03)).

Exceedance 5: 10-31-03: 7% of volume at Probe D (see EXHIBIT 2.2.1).

Mitigation Measures and Follow-up Results: 10-31, 11-3, 4, and 5 –03: Wells N3A & B vacuum adjustments were made at ~ 1330 hours, 10-31-03). Follow-up monitoring was performed on November 3, 4, and 5 at Probe D (see EXHIBIT 2.2.2 (Probe D read ND at ~ 1400 hours, 11-05-03)).

Exceedance 6: 10-31-03: 10.8% of volume at Probe Q at 10' (see EXHIBIT 2.2.4).

Mitigation Measures and Follow-up Results: 10-31, 11-3, 4, and 5 –03: Well W2 vacuum adjustment was made at ~ 1330 hours, 10-31-03). Follow-up monitoring was performed on November 3, 4, and 5 at Probe Q (see EXHIBIT 2.2.2 (The Probe Q probes read ND at ~ 1400 hours, 11-05-03)).

Exceedance 7: 11-12-03: 8% of volume at Probe Q at 40' (see EXHIBIT 2.2.5).

Mitigation Measures and Follow-up Results: 11-13 and 14–03: Well W2 vacuum adjustment was made at ~ 1330 hours, 11-13-03). Follow-up monitoring performed on November 14, indicated no detections of gas at Probe Q (see EXHIBIT 2.2.6).

5. Compliance Probe Sampling Results

Five probe TAC samples were collected on December 22, 2003 from Probes Q at 75', 10', and 40', D, and U at 68'. The field TOC readings were all non-detect with a GasTech Natural Gas Indicator, Model NPL-204, calibrated to methane (CH_4). The lab TAC results (sample I.D.# s U 68', D, Q 40', Q 10', and U 75') are included in EXHIBIT 2.3.

6. Integrated Landfill Surface Sampling (ILSS) Results: (see Map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). The two samples

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collected for laboratory analyses, K-4 from grid K4 and J-4 from grid J4 read ND as measured by a Foxboro portable Organic Vapor Analyzer (OVA), Model OVA Century 128, Flame Ionization Detector (FID), calibrated to methane. The other samples also registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results (samples K-4 and J-4) in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. Instantaneous Landfill Surface Monitoring (ILSM) Results

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On October 23 and December 19 Path A was monitored, and on November 24, Path B was monitored. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

8. Ambient Air Sampling (AAS) Results (see location map in EXHIBIT 2.1).

AAS were collected on January 13 and 14, 2004. AAS TAC results are included as laboratory results (samples AAS-SE1, AAS-NW1, AAS-SE2, and AAS-NW2) in EXHIBIT 4. A Davis Instruments, Monitor II, Digital Weather Station, used during AAS at the site, was equipped to continuously record wind speed and wind direction. Unfortunately, the weather station data log system malfunctioned. Thus, the results are not available.

9. Toxic Air Contaminant Results

As required by Section (f)(2)(B)(ii) of the Rule, fourth quarter 2003 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) — EXHIBIT 1;
- SRBPS (Samples U 68', D, Q 40', Q 10', and Q 75') — EXHIBIT 2.3;
- ILSS (Samples K-4 and J-4) — EXHIBIT 3.2; and
- AAS (AAS-SE1, NW1, SE2, and NW2) — EXHIBIT 4.

10. Certification

This quarterly report and certification is based upon Terra-Petra's understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our

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attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas, migration control and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the Fourth Quarter of 2003.

Sincerely,
Terra-Petra, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHNNY RAY CONAWAY
NO. C48,689
exp. 10-30-04
CIVIL
STATE OF CALIFORNIA

John Conaway, P. E.

Distribution:

SCAQMD, Mr. Rich Tambara, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado

California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for Fourth Quarter 2003 Compliance Report

EXHIBIT 1 - Control Device Laboratory Results

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – December 22, 2003

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: SRBPM Monitoring Results (page 2) – October 30 & 31, 2003

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Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results – Oct. 31, & Nov. 3, 4, 5, 2003

Exhibit 2.2.3: SRBPM Monitoring Results (page 3) – October 30, 2003

Exhibit 2.2.4: LEA Probe Monitoring Results (inspection report) – October 31, 2003

Exhibit 2.2.5: LEA Compliance Probe Monitoring Results (concentration log) – Nov. 12, 2003

Exhibit 2.2.6: Mitigation and Follow-up SRBPM Results – Nov. 13, 14, 15, 2003

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – December 22, 2003

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 3)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - December 22, 2003

EXHIBIT 4 AAS TAC Laboratory Results: H_2S and TO-14A Analyses - January 14, 2004

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EXHIBIT 1

PENROSE LANDFILL - Fourth Quarter 2003

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results – December 22, 2003: Sample TSI

Hydrogen Sulfide and TO-14A Analyses

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Calscience Environmental Laboratories, Inc.

December 30, 2003

Robert McAllister
L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.: 03-12-1415**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/22/03 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Ranjit K. Clarke for
Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

XHIBIT 1: Sheet 2 of 10

TERRA-PETRA

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products		Date Sampled:	12/22/03
4050 Katella Avenue, Suite 209		Date Received:	12/22/03
Los Alamitos, CA 90720-3482		Date Analyzed:	12/22/03
		Work Order No.:	03-12-1415
Attn: Robert McAllister		Method:	GC/FPD
RE: Penrose Landfill		Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
K-4	ND	1
TSI	113	5
U 68'	ND	1
D	ND	1
Q 40'	ND	1
Q 10'	ND	1
J-4	ND	1
Q 75'	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	113	116	3	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

EXHIBIT 1: Sheet 3 of 10

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Calscience Environmental Laboratories, Inc.

Analytical Report

..A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 12/22/03
Work Order No: 03-12-1415
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
K-4	03-12-1415-1	12/22/03	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.96	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	30	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	10	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	7.1	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	39	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

TSI	03-12-1415-2	12/22/03	Air	N/A	12/24/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	200	130	250		ppb (v/v)	Trichloroethene	ND	130	250		ppb (v/v)
1,1-Dichloroethene	ND	130	250		ppb (v/v)	1,2-Dibromoethane	ND	130	250		ppb (v/v)
Methylene Chloride	3600	500	250		ppb (v/v)	Tetrachloroethene	ND	130	250		ppb (v/v)
1,1-Dichloroethane	ND	130	250		ppb (v/v)	Chlorobenzene	550	130	250		ppb (v/v)
Chloroform	ND	130	250		ppb (v/v)	p/m-Xylene	5600	250	250		ppb (v/v)
1,2-Dichloroethane	ND	130	250		ppb (v/v)	o-Xylene	2600	130	250		ppb (v/v)
1,1,1-Trichloroethane	ND	130	250		ppb (v/v)	Benzyl Chloride	ND	250	250		ppb (v/v)
Benzene	1200	130	250		ppb (v/v)	1,3-Dichlorobenzene	ND	130	250		ppb (v/v)
Carbon Tetrachloride	ND	130	250		ppb (v/v)	1,4-Dichlorobenzene	380	130	250		ppb (v/v)
Toluene	7400	130	250		ppb (v/v)	1,2-Dichlorobenzene	ND	130	250		ppb (v/v)

U 68	03-12-1415-3	12/22/03	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	1.0	2		ppb (v/v)	Trichloroethene	ND	1.0	2		ppb (v/v)
1,1-Dichloroethene	ND	1.0	2		ppb (v/v)	1,2-Dibromoethane	ND	1.0	2		ppb (v/v)
Methylene Chloride	ND	4.0	2		ppb (v/v)	Tetrachloroethene	ND	1.0	2		ppb (v/v)
1,1-Dichloroethane	ND	1.0	2		ppb (v/v)	Chlorobenzene	ND	1.0	2		ppb (v/v)
Chloroform	1.4	1.0	2		ppb (v/v)	p/m-Xylene	65	2	2		ppb (v/v)
1,2-Dichloroethane	ND	1.0	2		ppb (v/v)	o-Xylene	25	1	2		ppb (v/v)
1,1,1-Trichloroethane	ND	1.0	2		ppb (v/v)	Benzyl Chloride	ND	2.0	2		ppb (v/v)
Benzene	6.8	1.0	2		ppb (v/v)	1,3-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Carbon Tetrachloride	ND	1.0	2		ppb (v/v)	1,4-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Toluene	58	1	2		ppb (v/v)	1,2-Dichlorobenzene	ND	1.0	2		ppb (v/v)

EXHIBIT 1: Sheet 4 of 10

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

..A. By Products
1050 Katella Avenue, Suite 209
.os Alamitos, CA 90720-3482

Date Received:	12/22/03
Work Order No:	03-12-1415
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
J-4	03-12-1415-7	12/22/03	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
/inyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	30	1	1		ppb (v/v)
,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	11	0.50	1		ppb (v/v)
,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	6.1	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	35	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Q 75	03-12-1415-8	12/22/03	Air	N/A	12/24/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
/inyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	6.0	2.0	1		ppb (v/v)	Tetrachloroethene	0.71	0.50	1		ppb (v/v)
,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	30	1	1		ppb (v/v)
,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	10	0.50	1		ppb (v/v)
,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	7.8	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	41	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-2,367	N/A	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
/inyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

XHIBIT 1: Sheet 5 of 10

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	12/22/03
Work Order No:	03-12-1415
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	095-01-021-2,370	N/A	Air	N/A	12/24/03	031224L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

EXHIBIT 1: Sheet 6 of 10

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received: 12/22/03
Work Order No: 03-12-1415
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-2,387	Air	GC/MS DD	N/A	12/23/03	031223L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	111	105	58-124	6	0-37	
1,2-Dichloroethane	114	108	63-123	5	0-37	
Benzene	101	95	61-121	6	0-37	
Carbon Tetrachloride	107	101	56-128	6	0-42	
1,2-Dichloropropane	95	90	61-121	6	0-37	
c-1,3-Dichloropropene	103	96	62-128	7	0-37	
1,1,2-Trichloroethane	101	94	64-124	7	0-37	
Toluene	105	98	60-120	7	0-39	
Trichloroethene	99	93	65-119	7	0-38	
1,2-Dibromoethane	105	98	63-123	7	0-38	
Tetrachloroethene	102	95	59-119	7	0-40	
Ethylbenzene	105	98	61-127	7	0-38	
p/m-Xylene	105	98	57-129	7	0-39	
Bromoform	115	106	62-134	7	0-38	
o-Xylene	103	97	58-130	7	0-38	
1,4-Dichlorobenzene	117	107	51-147	9	0-49	
1,2-Dichlorobenzene	141	130	41-149	8	0-62	

EXHIBIT 1: Sheet 7 of 10

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received: 12/22/03
Work Order No: 03-12-1415
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-01-021-2,370	Air	GC/MS DD	N/A	12/24/03	031224L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	96	104	58-124	8	0-37	
1,2-Dichloroethane	101	108	63-123	7	0-37	
Benzene	87	92	61-121	6	0-37	
Carbon Tetrachloride	98	105	56-128	7	0-42	
1,2-Dichloropropane	82	88	61-121	7	0-37	
c-1,3-Dichloropropene	91	97	62-128	7	0-37	
1,1,2-Trichloroethane	86	93	64-124	7	0-37	
Toluene	88	95	60-120	8	0-39	
Trichloroethene	85	91	65-119	6	0-38	
1,2-Dibromoethane	89	95	63-123	7	0-38	
Tetrachloroethene	86	92	59-119	7	0-40	
Ethylbenzene	89	96	61-127	8	0-38	
p/m-Xylene	90	97	57-129	8	0-39	
Bromoform	98	107	62-134	9	0-38	
o-Xylene	89	97	58-130	8	0-38	
1,4-Dichlorobenzene	97	109	51-147	11	0-49	
1,2-Dichlorobenzene	119	135	41-149	13	0-62	

EXHIBIT 1: Sheet 8 of 10

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 03-12-1415

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: LA By Product DATE: 12/22/3

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ____ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ✓ Ambient temperature.
- ____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact): ____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

EXHIBIT 1: Sheet 9 of 10

1415

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 12/22/03

Bag (I.D.#)	K-4	TSI	U68'	D	Q40'	Q10'	J-4	Q75'		
Condition Received in Lab*										

Analyses Requested: CORE GROUP - H_2S

Bags Prepared By: Robert Mallitt Time:

Date: 12/22/03

Bags Taken Out By: BAC TA [illegible] Time: 12/22/3 1300

Bags Taken to Lab By: BAC TA [illegible] Time: 12/22/3 1615

Bags Received In Lab By: Hassan Gaffar Time: 12/22/03 1615

* P = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,
E = Less than ¼ full but contains some sample, N = No sample at all.

J152TABL.508

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EXHIBIT 1: Sheet 10 of 10

000220

EXHIBIT 2

PENROSE LANDFILL - Fourth Quarter 2003

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: SRBPM Monitoring Results (page 2) – October 30 & 31, 2003 (Probes D and Q)

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results – Oct. 31, & Nov. 3, 4, 5, 2003

Exhibit 2.2.3: SRBPM Monitoring Results (page 3) – October 30, 2003 (Probe U)

Exhibit 2.2.4: LEA Probe Monitoring Results (inspection report) – October 31, 2003 (Probe Q)

Exhibit 2.2.5: LEA Compliance Probe Monitoring Results (concentration log) – Nov. 12, 2003

Exhibit 2.2.6: Mitigation and Follow-up SRBPM Results – Nov. 13 & 14, 2003

Exhibit 2.3: SRBPS TAC Laboratory Results – December 22, 2003:
Samples U 68', D, Q 40', Q 10, and Q 75' - Hydrogen Sulfide and TO-14A Analyses

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PENROSE LANDFILL MONITORING PROBE LOCATIONS

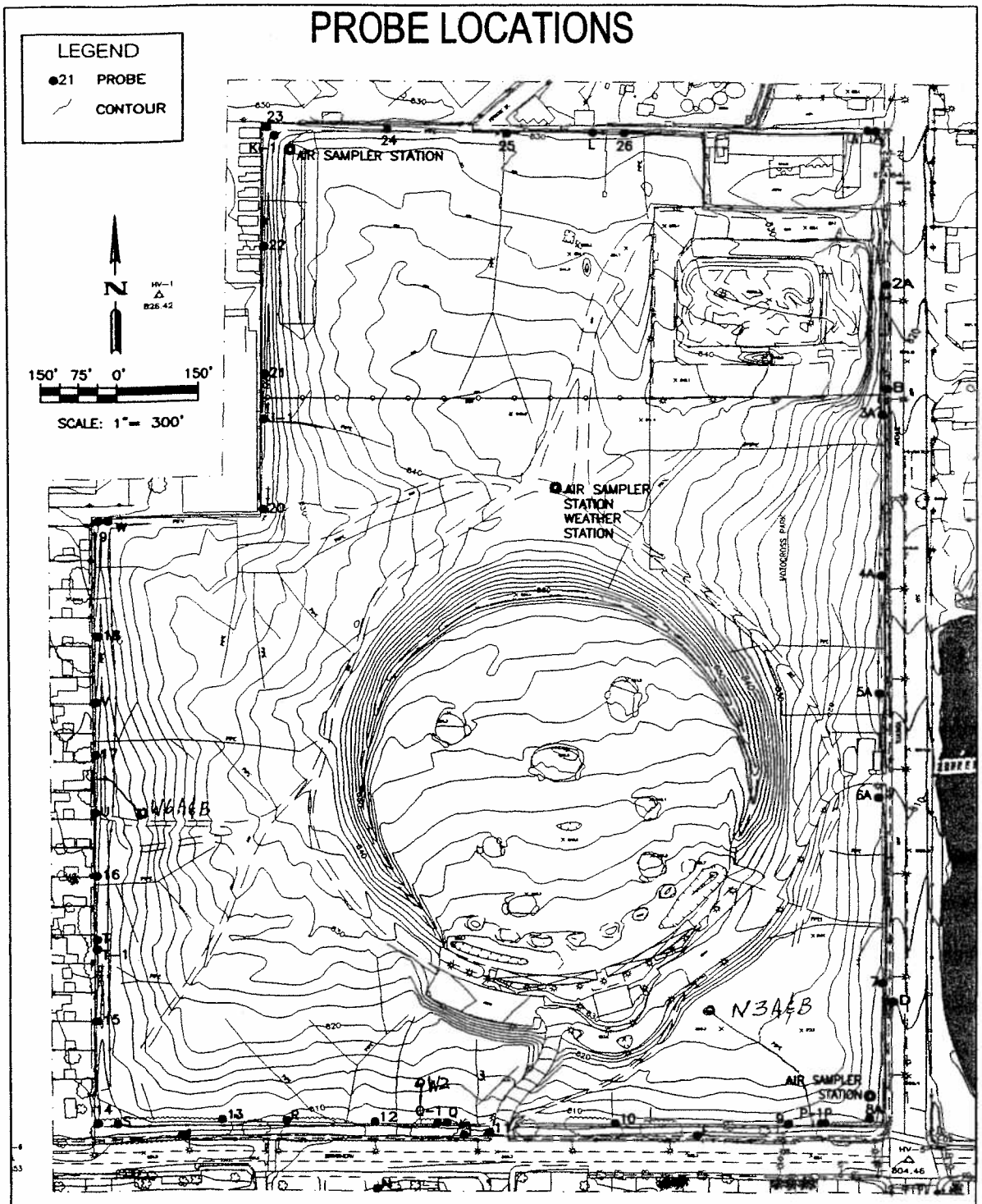

Exhibit 2.1

TERRA-PETRA INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 458-0494
Fax: (909) 624-8834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

CONFIDENTIAI

ENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE: 10/31/03

PROBE #	DESIGNATION DEPTH	Time on	Time off	VOC/CH, (% VOLUME)	REMARKS PAGE 2
A-1		10:54.26	10:55.24	ND	10/31/03
B		11:00.47	11:02.18		
C	GREEN-21'	11:08.48	11:09.59		
	YELLOW-41'	11:10.17	11:11.17		
	~~ORANGE-61'~~				
	RED - 81'	11:11.34	11:13.02		2 PUMPS
D		11:15.33	11:17.06	7%	
E		1:24.24	1:25.58	ND	
F		1:36.33	1:37.53		
G		1:40.23	1:41.58		
J-1		2:04.32	2:05.56		10/30/03
K-1		1:55.37	1:57.04		
L	GREEN-45'	1:48.36	1:50.02		10/31/03
	YELLOW-65'	1:47.07	1:48.11		
	ORANGE-85'	1:50.22	1:51.40		
	RED - 105'	1:45.16	1:46.40		
N	GREEN-22'	2:30.28	2:31.56		
	YELLOW-45'	2:32.14	2:32.38		5 pumps
	ORANGE-68'	2:32.56	2:33.50		
	RED - 90'	2:28.38	2:29.51	.2%	
P	10'	2:12.42	2:13.53	ND	
	40'	2:11.07	2:12.24		
	80'	2:09.33	2:10.53		
P-1	120'	2:07.15	2:09.05		
Q	10'	12:19.23	12:19.43	~~42~~ 37%	10/30/03
	40'	12:17.45	12:18.46	15%	
	75'	12:20.30	12:21.15	10%	
Q-1	120'	12:28.24	12:29.46	ND	
	158'	12:31.08	12:31.56		

Exhibit 2.2.1

26 inches of rain

CONFIDENTIAL

8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

February 05, 04

TERRA-PETRA, INC.
415 W. Foothill Blvd. Ste 301
Claremont, CA. 91711-2777

Re: Gas detection on probes "D", "Q" and "K" taken on 10/30/03 and 10/31/03

Mr. Feucht:

Vacuum adjustments were made @ 1330, 10/31/03 on gas migration control wells W2, W6A+B and W3A+B to mitigate gas concentration on the stated probes at different depths.

Kept probe monitoring on Monday, 11/03/03 through Wednesday, 11/05/03. No gas detection on probes "D", "Q" and "K" at 1400 hrs.

Victor Lam
Field Foreman

Exhibit 2.2.2

CONFIDENTIAL

OSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE: 10/30/03

PROBE #	DESIGNATION DEPTH	Time on	Time off	VOC/CH_4 (% VOLUME)	REMARKS PAGE 3
R	10'	12:43.57	12:44.42	ND	10/30/03
	40'	12:43.06	12:43.43		
	80'	12:39.31	12:40.39		
	120'	12:41.55	12:42.50		
S	10'	12:50.48	12:51.59		
	40'	12:49.00	12:50.26		
	80'	12:54.03	12:55.33		
	120'	12:52.15	12:53.43		
T	10'	1:05.35	1:07.12		
	40'	1:08.55	1:10.03		
	73'	1:07.31	1:08.38		
T-1	72'	1:01.37	1:05.09		
U	10'	1:16.11	1:17.11		
	37'	1:14.50	1:15.55		
	68'	1:13.26	1:14.24	5%	
V	10'	1:34.53	1:35.47	ND	
	40'	1:33.43	1:34.36		
	73'	1:32.28	1:33.34		
W	10'	1:43.04	1:44.05		
	40'	1:41.47	1:42.46		
	80'	1:44.20	1:45.14		
	120'	1:47.23	1:49.02		
	158'	1:49.22	1:50.40		

TES:

Exhibit 2.2.3

STATE OF CALIFORNIA (CALIFORNIA EPA)

Closed Facility Inspection Report

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Enforcement Agency: City of Los Angeles

Page 1 of 1

FACILITY FILE NUMBER	REGULATORY CODE	INSPECTION DATE	TIME IN	INSPECTION TIME
19-AA-0008	L	10/31/03	3:15 PM	0:45
			TIME OUT 4:00 PM	

FACILITY NAME: Pacoima Landfill	RECEIVED BY (OPERATOR): Mail
FACILITY ADDRESS: 8300 Tujunga Avenue, Sun Valley, CA 91352	OWNER
INSPECTOR: Ronald L. Rogue	REPRESENTATIVE

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 30 OF THE PUBLIC RESOURCES CODE (PRC) AND TITLE 27 CALIFORNIA CODE OF REGULATIONS (CCR).

THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING: V = VIOLATION A = AREA OF CONCERN NA = NOT APPLICABLE

SITES SUBJECT TO ARTICLE 3 STANDARDS

CLOSED SITES	V	A	NA
CLOSURE PLANS			
21080 - CERTIFICATION OF CLOSURE			
21090 - REVISION OF APPROVED PLANS FOR CPE MAINTENANCE			
MONITORING			
21130 - EMERGENCY RESPONSE PLAN			
21170 - REPORTING			
21180 - CHANGE OF OWNERSHIP			
SECURITY			
21135 - SECURITY AT CLOSED SITES			
GRADING			
21145 - FINAL GRADING			
21146 - SLOPE STABILITY			
CONTROL OF SURFACE DRAINAGE			
21150 - DRAINAGE/EROSION CONTROL			
MONITORING AND ESCAPE SYSTEMS			
21160 - VADOSE CONTROL/LEACHATE CONTACT			
GAS MONITORING AND CONTROL SYSTEMS			
21910 - GAS MONITORING			
21910 - GAS CONTROLS			
21910 - GAS MONITORING/CONTROL	X		
21910 - MONITORING			

GAS MONITORING AND CONTROL SYSTEM	V	A	NA
21910 - PERIMETER MONITORING NETWORK			
21910 - STRUCTURE MONITORING			
21910 - MONITORED PARAMETERS			
21910 - MONITORING FREQUENCY			
21910 - REPORTING			
21910 - CONTROL			
POSTCLOSURE			
21180 - POSTCLOSURE MAINTENANCE			
21190 - POSTCLOSURE LAND USE			
OTHER			
SITES UNDERGOING CLOSURE			
21110 - TIME FRAMES FOR CLOSURE			
21137 - STRUCTURE REMOVAL			
21140 - FINAL COVER			
OTHER			

COMMENTS (ATTACH ADDITIONAL SHEETS IF NECESSARY)

Gas readings exceed limits on probe Q. All other probes registered zero readings.

Probe Q readings are:
10 feet 10.8 %
40 feet 4.0 %
60 feet 0.0 %

Robert McAllister was notified of the high gas readings and he immediately contacted a technician to raise the vacuum pressure of the extraction well near probe Q.

DISTRIBUTION: TOP - OWNER MIDDLE - EA BOTTOM - OPERATOR

Exhibit 2.2.4

CONFIDENTIAL

J481

8309 Tujunga Avenue Corp. - Penrose
8301 Tunjunga Avenue
Sun Valley, California 91352
Tel: (323) 875-1095 Fax: (818) 768-6039

JOB NAME: PENROSE LANDFILL

DATE: 11-12-03

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: CTF

TIME: 0930 - 1230

INSTRUMENT: RKI Eagle

PARAMETER: % Vol.

REMARKS: Checked RKI Eagle w/2.5% CH4 at 0780 hours 11-12-03.
(V) = vacuum
(a) = read as 60% of LEL on RKI

PROBE #		
1	ND	
2 A	ND	
3 A	ND	
4 A	ND	
5 A	ND	
6 A	ND	
7 A	ND	
8 A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	ND	
21 A	ND	
22	ND	
23	ND	
24	ND	
25	ND	
26	ND	

Exhibit 2.2.5

PROBE #			
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	
	ORANGE-61'	X	missing
	RED - 81'	ND	
D		ND	
E		ND	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	ND	
	YELLOW-65'	ND	
	ORANGE-85'	ND	
	RED - 105'	ND	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	ND	
	80'	ND	
P-1	120'	ND	
Q	10'	ND	
	40'	8	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

R	10'	ND
	40'	ND
	80'	ND
	120'	ND
S	10'	ND
	40'	ND
	80'	ND
	120'	ND
T	10'	ND
	40'	ND
	73'	ND (V)
T-1	72'	ND
U	10'	ND
	37'	ND
	68'	30 (a)
V	10'	ND
	40'	ND
	73'	ND
W	10'	ND
	40'	ND
	80'	ND
	120'	ND
	158'	ND

ANY PROBE ≥ 5% CALL (323) 875-1095

000227

CONFIDENTI

8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-5039

February 12, 04

TERRA-PETRA, INC.
415 W. Foothill Blvd. Ste 301
Claremont, CA. 91711-2777

Re: Correction on probe "Q" for exceedance.

Mr. Fencht:

probe "Q" had no detection on Friday 11/14/04 after Vacuum adjustment on gas wells W 2 @ 1300, Thursday, 11/13/04.

Any question regarding to this matter, please call (818) 767-6849 or (323) 875.1095.

Victor Cory
Field Foreman

Exhibit 2.2.6

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	12/22/03
4050 Katella Avenue, Suite 209	Date Received:	12/22/03
Los Alamitos, CA 90720-3482	Date Analyzed:	12/22/03
	Work Order No.:	03-12-1415
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
K-4	ND	1
TSI	113	5
U 68'	ND	1
D	ND	1
Q 40'	ND	1
Q 10'	ND	1
J-4	ND	1
Q 75'	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	113	116	3	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

Exhibit 2.3: Sheet 1 of 4

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	12/22/03
Work Order No:	03-12-1415
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
K-4	03-12-1415-1	12/22/03	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.96	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	30	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	10	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	7.1	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	39	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

TSI	03-12-1415-2	12/22/03	Air	N/A	12/24/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	200	130	250		ppb (v/v)	Trichloroethene	ND	130	250		ppb (v/v)
1,1-Dichloroethene	ND	130	250		ppb (v/v)	1,2-Dibromoethane	ND	130	250		ppb (v/v)
Methylene Chloride	3600	500	250		ppb (v/v)	Tetrachloroethene	ND	130	250		ppb (v/v)
1,1-Dichloroethane	ND	130	250		ppb (v/v)	Chlorobenzene	550	130	250		ppb (v/v)
Chloroform	ND	130	250		ppb (v/v)	p/m-Xylene	5600	250	250		ppb (v/v)
1,2-Dichloroethane	ND	130	250		ppb (v/v)	o-Xylene	2600	130	250		ppb (v/v)
1,1,1-Trichloroethane	ND	130	250		ppb (v/v)	Benzyl Chloride	ND	250	250		ppb (v/v)
Benzene	1200	130	250		ppb (v/v)	1,3-Dichlorobenzene	ND	130	250		ppb (v/v)
Carbon Tetrachloride	ND	130	250		ppb (v/v)	1,4-Dichlorobenzene	380	130	250		ppb (v/v)
Toluene	7400	130	250		ppb (v/v)	1,2-Dichlorobenzene	ND	130	250		ppb (v/v)

U-68	03-12-1415-3	12/22/03	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	1.0	2		ppb (v/v)	Trichloroethene	ND	1.0	2		ppb (v/v)
1,1-Dichloroethene	ND	1.0	2		ppb (v/v)	1,2-Dibromoethane	ND	1.0	2		ppb (v/v)
Methylene Chloride	ND	4.0	2		ppb (v/v)	Tetrachloroethene	ND	1.0	2		ppb (v/v)
1,1-Dichloroethane	ND	1.0	2		ppb (v/v)	Chlorobenzene	ND	1.0	2		ppb (v/v)
Chloroform	1.4	1.0	2		ppb (v/v)	p/m-Xylene	65	2	2		ppb (v/v)
1,2-Dichloroethane	ND	1.0	2		ppb (v/v)	o-Xylene	25	1	2		ppb (v/v)
1,1,1-Trichloroethane	ND	1.0	2		ppb (v/v)	Benzyl Chloride	ND	2.0	2		ppb (v/v)
Benzene	6.8	1.0	2		ppb (v/v)	1,3-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Carbon Tetrachloride	ND	1.0	2		ppb (v/v)	1,4-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Toluene	58	1	2		ppb (v/v)	1,2-Dichlorobenzene	ND	1.0	2		ppb (v/v)

Exhibit 2.3: Sheet 2 of 4

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

..A. By Products
1050 Katella Avenue, Suite 209
.os Alamitos, CA 90720-3482

Date Received: 12/22/03
Work Order No: 03-12-1415
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D	03-12-1415-4	12/22/03	Air	N/A	12/24/03	031224L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.0	4		ppb (v/v)	Trichloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethene	ND	2.0	4		ppb (v/v)	1,2-Dibromoethane	ND	2.0	4		ppb (v/v)
Methylene Chloride	ND	8.0	4		ppb (v/v)	Tetrachloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethane	2.3	2.0	4		ppb (v/v)	Chlorobenzene	ND	2.0	4		ppb (v/v)
Chloroform	ND	2.0	4		ppb (v/v)	p/m-Xylene	86	4	4		ppb (v/v)
1,2-Dichloroethane	ND	2.0	4		ppb (v/v)	o-Xylene	32	2	4		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0	4		ppb (v/v)	Benzyl Chloride	ND	4.0	4		ppb (v/v)
Benzene	9.3	2.0	4		ppb (v/v)	1,3-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Carbon Tetrachloride	ND	2.0	4		ppb (v/v)	1,4-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Toluene	81	2	4		ppb (v/v)	1,2-Dichlorobenzene	ND	2.0	4		ppb (v/v)

Q 40'	03-12-1415-5	12/22/03	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	1.0	2		ppb (v/v)	Trichloroethene	ND	1.0	2		ppb (v/v)
1,1-Dichloroethene	ND	1.0	2		ppb (v/v)	1,2-Dibromoethane	ND	1.0	2		ppb (v/v)
Methylene Chloride	ND	4.0	2		ppb (v/v)	Tetrachloroethene	ND	1.0	2		ppb (v/v)
1,1-Dichloroethane	ND	1.0	2		ppb (v/v)	Chlorobenzene	ND	1.0	2		ppb (v/v)
Chloroform	ND	1.0	2		ppb (v/v)	p/m-Xylene	42	2	2		ppb (v/v)
1,2-Dichloroethane	ND	1.0	2		ppb (v/v)	o-Xylene	15	1	2		ppb (v/v)
1,1,1-Trichloroethane	ND	1.0	2		ppb (v/v)	Benzyl Chloride	ND	2.0	2		ppb (v/v)
Benzene	7.1	1.0	2		ppb (v/v)	1,3-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Carbon Tetrachloride	ND	1.0	2		ppb (v/v)	1,4-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Toluene	44	1	2		ppb (v/v)	1,2-Dichlorobenzene	ND	1.0	2		ppb (v/v)

Q 10'	03-12-1415-6	12/22/03	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	2.7	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.74	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	33	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	12	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	5.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	38	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Exhibit 2.3: Sheet 3 of 4

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	12/22/03
Work Order No:	03-12-1415
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
J-4	03-12-1415-7	12/22/03	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	30	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	11	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	6.1	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	35	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Q-75	03-12-1415-8	12/22/03	Air	N/A	12/24/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	6.0	2.0	1		ppb (v/v)	Tetrachloroethene	0.71	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	30	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	10	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	7.8	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	41	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-2,367	N/A	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Exhibit 2.3: Sheet 4 of 4

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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EXHIBIT 3

PENROSE LANDFILL - Fourth Quarter 2003

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 3)

Exhibit 3.2: ILSS TAC Laboratory Results – December 22, 2003: Samples K-4 and J-4

Hydrogen Sulfide and TO-14A Analyses

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INTEGRATED SAMPLING ROUTE 3

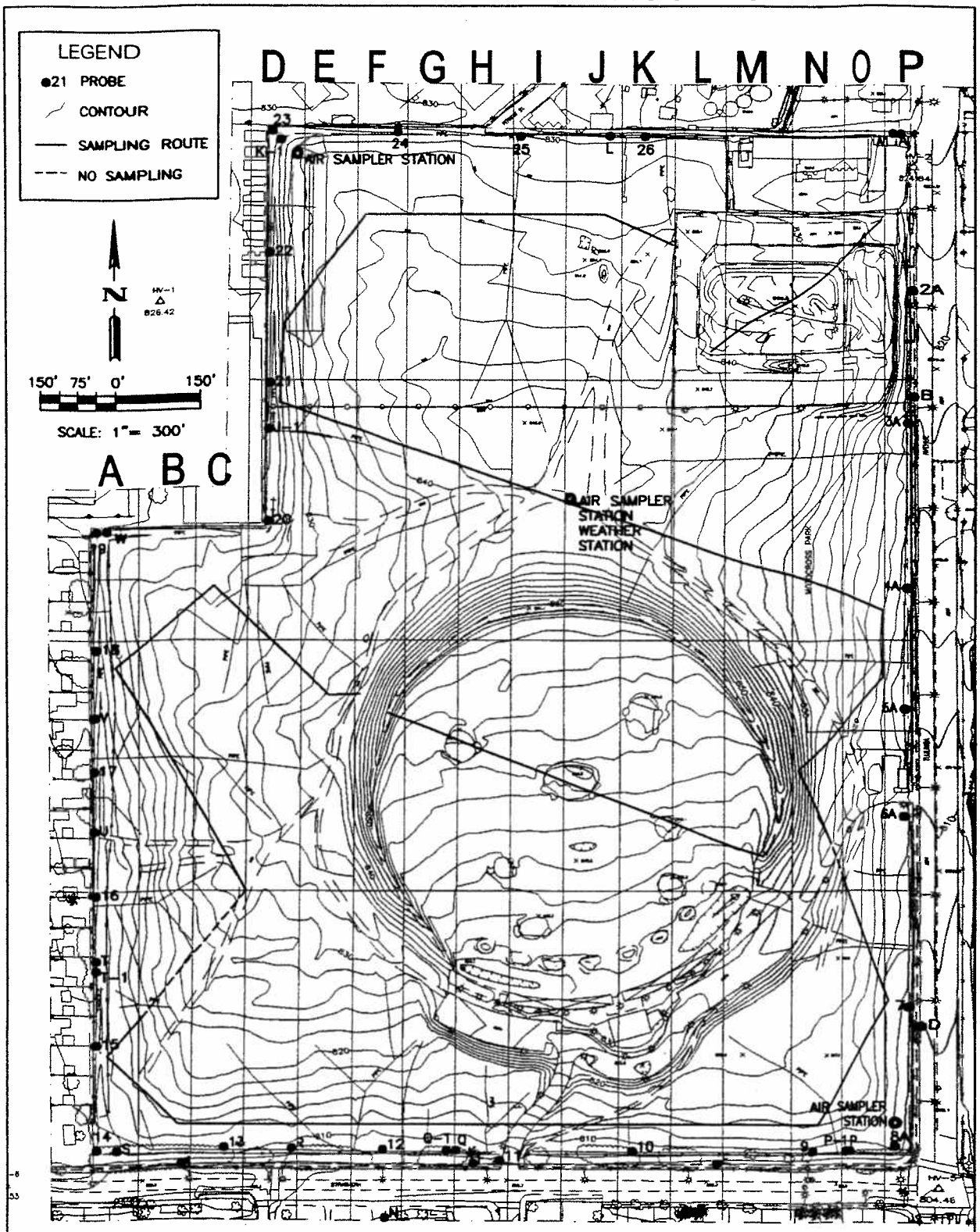

Exhibit 3.1

TERRA-PETRA INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 458-0494
Fax: (909) 624-8834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products		Date Sampled:	12/22/03
4050 Katella Avenue, Suite 209		Date Received:	12/22/03
Los Alamitos, CA 90720-3482		Date Analyzed:	12/22/03
		Work Order No.:	03-12-1415
Attn: Robert McAllister		Method:	GC/FPD
RE: Penrose Landfill		Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
K-4	ND	1
TSI	113	5
U 68'	ND	1
D	ND	1
Q 40'	ND	1
Q 10'	ND	1
J-4	ND	1
Q 75'	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	113	116	3	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

Exhibit 3.2: Sheet 1 of 3

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	12/22/03
Work Order No:	03-12-1415
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
K-4	03-12-1415-1	12/22/03	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.96	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	30	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	10	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	7.1	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	39	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

TSI	03-12-1415-2	12/22/03	Air	N/A	12/24/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	200	130	250		ppb (v/v)	Trichloroethene	ND	130	250		ppb (v/v)
1,1-Dichloroethene	ND	130	250		ppb (v/v)	1,2-Dibromoethane	ND	130	250		ppb (v/v)
Methylene Chloride	3600	500	250		ppb (v/v)	Tetrachloroethene	ND	130	250		ppb (v/v)
1,1-Dichloroethane	ND	130	250		ppb (v/v)	Chlorobenzene	550	130	250		ppb (v/v)
Chloroform	ND	130	250		ppb (v/v)	p/m-Xylene	5600	250	250		ppb (v/v)
1,2-Dichloroethane	ND	130	250		ppb (v/v)	o-Xylene	2600	130	250		ppb (v/v)
1,1,1-Trichloroethane	ND	130	250		ppb (v/v)	Benzyl Chloride	ND	250	250		ppb (v/v)
Benzene	1200	130	250		ppb (v/v)	1,3-Dichlorobenzene	ND	130	250		ppb (v/v)
Carbon Tetrachloride	ND	130	250		ppb (v/v)	1,4-Dichlorobenzene	380	130	250		ppb (v/v)
Toluene	7400	130	250		ppb (v/v)	1,2-Dichlorobenzene	ND	130	250		ppb (v/v)

U-68	03-12-1415-3	12/22/03	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	1.0	2		ppb (v/v)	Trichloroethene	ND	1.0	2		ppb (v/v)
1,1-Dichloroethene	ND	1.0	2		ppb (v/v)	1,2-Dibromoethane	ND	1.0	2		ppb (v/v)
Methylene Chloride	ND	4.0	2		ppb (v/v)	Tetrachloroethene	ND	1.0	2		ppb (v/v)
1,1-Dichloroethane	ND	1.0	2		ppb (v/v)	Chlorobenzene	ND	1.0	2		ppb (v/v)
Chloroform	1.4	1.0	2		ppb (v/v)	p/m-Xylene	65	2	2		ppb (v/v)
1,2-Dichloroethane	ND	1.0	2		ppb (v/v)	o-Xylene	25	1	2		ppb (v/v)
1,1,1-Trichloroethane	ND	1.0	2		ppb (v/v)	Benzyl Chloride	ND	2.0	2		ppb (v/v)
Benzene	6.8	1.0	2		ppb (v/v)	1,3-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Carbon Tetrachloride	ND	1.0	2		ppb (v/v)	1,4-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Toluene	58	1	2		ppb (v/v)	1,2-Dichlorobenzene	ND	1.0	2		ppb (v/v)

xhibit 3.2: Sheet 2 of 3

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	12/22/03
Work Order No:	03-12-1415
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
J-4	03-12-1415-7	12/22/03	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	30	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	11	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	6.1	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	35	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q 75	03-12-1415-8	12/22/03	Air	N/A	12/24/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	6.0	2.0	1		ppb (v/v)	Tetrachloroethene	0.71	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	30	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	10	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	7.8	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	41	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	095-01-021-2,367	N/A	Air	N/A	12/23/03	031223L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Exhibit 3.2: Sheet 3 of 3

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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EXHIBIT 4

PENROSE LANDFILL - Fourth Quarter 2003

Ambient Air Sampling (AAS) Documentation

Ambient Air Sample Laboratory Results

AAS TAC Laboratory Results - January 14, 2004 - Samples AAS-SE1, AAS-NW1, AAS-SE2, and AAS-NW2

Hydrogen Sulfide and TO-14A Analyses

CONFIDENTIAL

COPY

Calscience Environmental Laboratories, Inc.

January 21, 2004

Robert McAllister
L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.: 04-01-0593**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/14/2004 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Ranjit K. K. Clarke for

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

EXHIBIT 4: Sheet 2 of 10

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products		Date Sampled:	01/13-14/04
4050 Katella Avenue, Suite 209		Date Received:	01/14/04
Los Alamitos, CA 90720-3482		Date Analyzed:	01/14/04
		Work Order No.:	04-01-0593
Attn: Robert McAllister		Method:	EPA 16
RE: Penrose Landfill		Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
AAS-SE1	ND	1
AAS-NW1	ND	1
AAS-SE2	ND	1
AAS-NW2	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
AAS-NW2 (Duplicate)	ND	ND	NA	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

EXHIBIT 4: Sheet 3 of 10

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	01/14/04
Work Order No:	04-01-0593
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS-SE1	04-01-0593-1	01/13/04	Air	N/A	01/14/04	040114L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	1.2	0.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.6	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.82	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	0.66	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	130	2	4	D	ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

AAS-NW1	04-01-0593-2	01/13/04	Air	N/A	01/14/04	040114L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	2.8	0.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.1	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.79	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	0.65	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	12	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

AAS-SE2	04-01-0593-3	01/14/04	Air	N/A	01/14/04	040114L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	1.4	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	0.62	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	19	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

EXHIBIT 4: Sheet 4 of 10

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

..A. By Products
050 Katella Avenue, Suite 209
.os Alamitos, CA 90720-3482

Date Received: 01/14/04
Work Order No: 04-01-0593
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS-NW2	04-01-0593-4	01/14/04	Air	N/A	01/14/04	040114L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	1.5	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	0.71	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	3.7	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-2,393	N/A	Air	N/A	01/14/04	040114L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-2,395	N/A	Air	N/A	01/15/04	040115L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

EXHIBIT 4: Sheet 5 of 10

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received: N/A
Work Order No: 04-01-0593
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-2,393	Air	GC/MS V	N/A	01/14/04	040114L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	102	91	58-124	11	0-37	
1,2-Dichloroethane	105	100	63-123	5	0-37	
Benzene	99	96	61-121	3	0-37	
Carbon Tetrachloride	102	99	56-128	3	0-42	
1,2-Dichloropropane	99	94	61-121	5	0-37	
c-1,3-Dichloropropene	107	103	62-128	3	0-37	
1,1,2-Trichloroethane	96	89	64-124	7	0-37	
Toluene	99	103	60-120	4	0-39	
Trichloroethene	96	93	65-119	2	0-38	
1,2-Dibromoethane	103	108	63-123	5	0-38	
Tetrachloroethene	97	96	59-119	1	0-40	
Ethylbenzene	91	94	61-127	2	0-38	
p/m-Xylene	85	101	57-129	17	0-39	
Bromoform	102	106	62-134	4	0-38	
o-Xylene	98	102	58-130	4	0-38	
1,4-Dichlorobenzene	88	100	51-147	12	0-49	
1,2-Dichlorobenzene	98	102	41-149	3	0-62	

EXHIBIT 4: Sheet 6 of 10

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 04 - 01 - 0593

Cooler 1 of ____

SAMPLE RECEIPT FORM

CLIENT: LA By Products DATE: 1/14/9

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

____ Chilled, cooler with temperature blank provided.
____ Chilled, cooler without temperature blank.
____ Chilled and placed in cooler with wet ice.
____ Ambient and placed in cooler with wet ice.
✓ Ambient temperature.
____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

____ °C Temperature blank.
____ °C IR thermometer.
____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact): ____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS: EXHIBIT 4: Sheet 8 of 10

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

EXHIBIT 4: Sheet 9 of 10

Date 01-14-04
Page 1 of 1

LABORATORY CLIENT: LA By Products
ADDRESS:
CITY STATE ZIP
TEL: FAX: E-MAIL:
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ 10 DAYS
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER:
PROJECT CONTACT:
SAMPLER(S): (SIGNATURE) Alex P. Feucht
COELT LOG CODE
P.O. NO.:
LAB USE ONLY: 01-0597
COOLER RECEIPT TEMP: °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or	BTEX/MTBE (8021B) or (8260B)	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B)	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	H_2S			
1	AAS-SE1		1/13/04	2102hr	air	1												✓		✓			
2	AAS-NW1		"	2112	A	1												✓		✓			
3	AAS-SE2		1/14/04	0455	A	1												✓		✓			
4	AAS-NW2		"	1003	A	1												✓		✓			

Relinquished by: (Signature) Alex P. Feucht	Received by: (Signature) [signature]	Date: 1/14/4	Time: 1035
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) [signature]	Received for Laboratory by: (Signature) Hassan Gaffar	Date: 1/14/4	Time: 1400

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

11/20/03 Revision

Q&Q Graphic (714) 898-9702

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BAG SAMPLE CUSTODY FORM

Project Penrose

Date: 1-14-04

Bag (I.D. #)	AAS SE1	AAS NW1	AAS SE2	AAS NW2					
Condition Received in Lab*									

Bags Prepared By: [illegible] Time: 1035
Date: 1/14/04

Bags Taken Out By: [illegible] Time: 10/35

Bags Taken to Lab By

Bags Received In Lab By: Hassan Gaffar Time 1/14/04

* F = 1/2 full to full, 0 = Overfull (Bulging), L = 1/4 to 1/2 full,
E = Less than 1/4 full but contains some sample, N = No sample at all.

Figure 4

EXHIBIT 4: Sheet 10 of 10

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000240

PAGE 0

DISTRIBUTION INSTRUCTIONS Job TP152 (rev. 01-30-04)

FOURTH QUARTER 2003 REPORT

FOR: Penrose Landfill, 11501 Strathern Street, Sun Valley, CA

1) Make 4 copies;

2) Mail text and copy of documents to Mr. Rich Tambara, Toxics and Waste Management Branch, California South Coast Air Quality Management District, 21865 E. Copley Drive, Diamond Bar, California 91765-4182

3) Mail text and documents to Mr. Peter Janicke, California Integrated Waste Management Board, PO Box 4025, Sacramento, CA 95812-4025

4) Mail text and documents to Mr. Michael Mercado, City of Los Angeles, Local Enforcement Agency, 200 North Spring St., Room 1905, Mailstop 248, Los Angeles, California 90012

5) Mail copies of text and documents to Mr. Mike McAllister, LOS ANGELES BY-PRODUCTS Co., 4050 Katella Ave., Suite 209, Los Alamitos, California 90720

6) File copy of text and original documents in File TP152.

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California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention:Mr. Rich Tambara
Toxics and Waste Management Branch

California Integrated Waste Management Board
1001 I Street
Sacramento, CA 95814

Attention: Mr. Peter Janicke

City of Los Angeles
Local Enforcement Agency
200 North Spring St., Room 1905, Mailstop 248
Los Angeles, California 90012

Attention: Mr. Michael Mercado

LOS ANGELES BY-PRODUCTS Co.
4050 Katella Ave., Suite 209
Los Alamitos, California 90720

Attention: Mr. Mike McAllister

Enclosures: for Fourth Quarter 2003, Penrose LF, Compliance Report (# of pages)

EXHIBIT 1 - Control Device Laboratory Results Sheet 1 of 10 (1)

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – December 22, 2003 (9)

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation (1)

Exhibit 2.1: Probe Location Map (1)

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: SRBPM Monitoring Results (page 2) – October 30 & 31, 2003 (1)

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results – Oct. 31, & Nov. 3, 4, 5, 2003 (1)

Exhibit 2.2.3: SRBPM Monitoring Results (page 3) – October 30, 2003 (1)

Exhibit 2.2.4: LEA Probe Monitoring Results (inspection report) – October 31, 2003 (1)

Exhibit 2.2.5: LEA Compliance - Probe Results (concentration log) – Nov. 12, 2003 (1)

Exhibit 2.2.6: Mitigation and Follow-up SRBPM Results – Nov. 13, 14, 2003 (1)

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses December 22, 2003 (4)

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation (1)

Exhibit 3.1: ILSS Traverse Map (Route 3) (1)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses December 22, 2003 (3)

EXHIBIT 4 Ambient Air Sampling Results Sheet 1 of 10 (1)

AAS TAC Laboratory Results: H_2S and TO-14A Analyses - January 14, 2004 (9)

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RECEIVED
AUG 1 0 2004
L.A. BY-PROD. CO.

August 10, 2004
Job # TP152

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Second Quarter, 2004
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the forty-third quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period April through June 2004. This is the seventeenth quarterly report submitted under the 1999 revised version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill.

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the second quarter of 2004. Three exceedances were detected from *subsurface refuse boundary probes* (SRBP).

1. Reporting Requirements

South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2004 second quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 77 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on April 20 and 21, May 24, 27, and 28, and June 23, 24, and 25, 2004. Probe TOC (non-compliance, i.e. does not

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meet all SCAQMD criteria) monitoring was performed by Terra-Petra, Inc. on April 7, May 12, and June 14, 2004, for the City of Los Angeles, Environmental Affairs Department (LEA) requirements. The LEA Inspector monitoring of selected probes were reported for April 15, May 26, and June 25, 2004, during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes U at 68' and D were sampled on June 28, 2004).

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 1 traversed, sampled, and monitored for TOC on June 24, 25, and 28, 2004; Grids H-4 and G-4 were sampled for TAC laboratory analyses on June 28, 2004).

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west), on April 20, May 21, and June 25, 2004. In April and June Path A was monitored, and in May, Path B was monitored.

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection, header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled June 28, 2004).

All monitoring and sampling activities, except for agency inspections, the bi-monthly (non-compliance) probe monitoring, and follow-up mitigation and monitoring were performed by Los Angeles By-Products (LABP) personnel.

2. Record Keeping Requirements

Section (f)(1) of the Rule describes the record keeping requirements. Section (f)(1) of the Rule describes the record keeping requirements. The RECORDS are available for SCAQMD inspection at the Strathern Landfill weigh station on the east side of Tujunga Avenue across from Penrose Landfill. Section (f)(2) of the Rule requires that this report contain documentation regarding exceedances (and follow-up mitigation measures and results) and TAC laboratory results. The requirements regarding exceedances are summarized in the text of this report and required supplemental documentation is included as attachments in the EXHIBITS with this report. The TAC results are included as EXHIBITS with this report.

The list below inventories the documents supplemental to this report, and required by the Rule, that are available as RECORDS in concurrence with Section (f)(1), but are not included with this report.

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- ILSM traverse route maps and inspection reports;
- Quality Control Sheets (QCS) for SRBPM, SRBPS, ILSS, ILSM (maps only), and TSI (except when pertinent as documentation required for reporting exceedances); and;
- Documents for non-SCAQMD probe monitoring events (except when pertinent as documentation required for reporting exceedances).

3. Control System - 8309 Tujunga Avenue Corp. (8309 TAC) - Penrose Power Plant

Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at 8309 TAC's Plant at 8301 Tujunga Avenue, Sun Valley.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

4. Compliance Probe Monitoring Results

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on April 20 and 21, May 24, 27, and 28, and June 23, 24, and 25, 2004. Results: there were two exceedances detected during Rule 1150.1 compliance probe monitoring events and another exceedance during other (non-compliance) probe monitoring, during the second quarter 2004. Two exceedances were detected in Probe U @ 68' and one was detected in Probe D. There were no exceedances detected during other probe monitoring events.

Exceedance 1: 05-24-04: 8% of volume at Probe U at 68' (see EXHIBIT 2.2.1).

Mitigation Measures and Follow-up Results: 05-25 (according to the Rule, the first mitigation measure is to make extraction well adjustments): at Well W6A a vacuum adjustment was made at 0800 hours. Follow-up monitoring at 1330 hours of same day yielded a non-detect (ND) reading (see EXHIBIT 2.2.4 (Probe U at 68' read ND at 1330 hours, 05-25-04)).

Exceedance 2: 05-27-04: 6% of volume at Probe D (see EXHIBIT 2.2.2).

Mitigation Measures and Follow-up Results: 05-28 and 06-01: at Well N3A a vacuum adjustment was made at 1000 hours, 05-28-04. Follow-up monitoring was performed at 1100 hours, 06-01-04 at Probe D (see EXHIBIT 2.2.4 (Probe D read ND)).

Exceedance 3: 06-14-04: 11.8% of volume at Probe U at 68' (see EXHIBIT 2.2.3).

Mitigation Measures and Follow-up Results: 06-15, 16, 17, and 18: The water pump for the condensate trap, was repaired and the water blockage in the header line adjacent to Wells W6A & B was cleared at 0930 hours, 06-15-04. Follow-up monitoring at 1100 hours, 06-16-04 yielded a non-detect (ND) reading (see EXHIBIT 2.2.4 (Probe U at 68' read ND at 1100 hours, 06-16-04)). Additional follow-up monitoring on 06-17 and 18 also yielded ND readings.

5. Compliance Probe Sampling Results

Two probe TAC samples were collected on June 28, 2004 from Probes D and U at 68'. The field TOC readings were non-detect (ND) at both probes at % of volume range with a GasTech Natural Gas Indicator, Model NPL-204, calibrated to methane (CH_4). The lab TAC results (sample I.D.# s PPSD and PPSDU68) are included in EXHIBIT 2.3.

6. Integrated Landfill Surface Sampling (ILSS) Results: (see Map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples (from 57 grids) were collected in Tedlar bags and analyzed with a Foxboro portable Organic Vapor Analyzer (OVA), Model OVA Century 128, Flame Ionization Detector (FID), calibrated to methane. The results were recorded on the quality control sheets (QCS). The two samples collected for laboratory analyses, ISSG4 from grid G-4 and ISSH-4 from grid H-4, read ND as measured by the FID. The Tedlar Bag samples from the other 55 grids also registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. Instantaneous Landfill Surface Monitoring (ILSM) Results

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On April 20 and June 25 Path A was monitored, and on May 21, Path B was monitored. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

8. Toxic Air Contaminant Results

As required by Section (f)(2)(B)(ii) of the Rule, second quarter 2004 laboratory TAC analytical results are included in the Exhibits as follows:

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- ILSS (Samples ISSG4 and ISSH-4) EXHIBIT 3.2.

9. Certification

This quarterly report and certification is based upon Terra-Petra's understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas, migration control and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the Second Quarter of 2004.

Sincerely,
Terra-Petra, Inc.

REGISTERED PROFESSIONAL ENGINEER JOHNNY RAY CONAWAY NO. C 18,689 Exp. 10-30-04 CIVIL STATE OF CALIFORNIA

John Conaway, P. E.

Distribution:

SCAQMD, Mr. Rich Tambara, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado

California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for Second Quarter 2004 Compliance Report

EXHIBIT 1 - Control Device Laboratory Results

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – June 28, 04

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

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EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: SRBPM Monitoring Results (page 3) – May 24, 04

Exhibit 2.2.2: SRBPM Monitoring Results (page 2) – May 27, 04

Exhibit 2.2.3: LEA required Probe Monitoring Results – June 14, 04

Exhibit 2.2.4: Mitigation and Follow-up Results – May 25 & 28, and June 1, 15, 16, 17, & 18, 04

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – June 28, 04

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 1)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - June 28, 04

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EXHIBIT 1

PENROSE LANDFILL - Second Quarter 2004

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results – June 28, 04: Sample TSI

Hydrogen Sulfide and TO-14A Analyses

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Calscience Environmental Laboratories, Inc.

July 07, 2004

Robert McAllister
L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.: 04-06-1671**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/28/2004 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Ranjit K. K. Clarke

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	06/28/04
Work Order No:	04-06-1671
Preparation:	N/A
Method:	EPA TO-14A
Units:	ug/L

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	04-06-1671-4	06/28/04	Air	N/A	06/29/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	0.53	0.16	125		Trichloroethene	0.38	0.34	125	
1,1-Dichloroethene	ND	0.25	125		1,2-Dibromoethane	ND	0.48	125	
Methylene Chloride	ND	0.87	125		Tetrachloroethene	0.60	0.42	125	
1,1-Dichloroethane	ND	0.25	125		Chlorobenzene	2.8	0.2	125	
Chloroform	ND	0.31	125		p/m-Xylene	26	0.54	125	
1,2-Dichloroethane	ND	0.25	125		o-Xylene	13	0.27	125	
1,1,1-Trichloroethane	ND	0.34	125		Benzyl Chloride	ND	0.65	125	
Benzene	3.6	0.2	125		1,3-Dichlorobenzene	0.91	0.38	125	
Carbon Tetrachloride	ND	0.39	125		1,4-Dichlorobenzene	5.7	0.3	125	
Toluene	29	2	1250	D	1,2-Dichlorobenzene	2.0	0.3	125	

ISSH-4	04-06-1671-5	06/28/04	Air	N/A	06/29/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.0013	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		1,2-Dibromoethane	ND	0.0038	1	
Methylene Chloride	ND	0.0069	1		Tetrachloroethene	ND	0.0034	1	
1,1-Dichloroethane	ND	0.0020	1		Chlorobenzene	ND	0.0023	1	
Chloroform	ND	0.0024	1		p/m-Xylene	0.25	0.0043	1	
1,2-Dichloroethane	ND	0.0020	1		o-Xylene	0.080	0.002	1	
1,1,1-Trichloroethane	ND	0.0027	1		Benzyl Chloride	ND	0.0052	1	
Benzene	0.014	0.001	1		1,3-Dichlorobenzene	ND	0.0030	1	
Carbon Tetrachloride	ND	0.0031	1		1,4-Dichlorobenzene	ND	0.0030	1	
Toluene	0.27	0.0075	4	D	1,2-Dichlorobenzene	ND	0.0030	1	

Method Blank	095-01-021-2,610	N/A	Air	N/A	06/28/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.0013	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		1,2-Dibromoethane	ND	0.0038	1	
Methylene Chloride	ND	0.0069	1		Tetrachloroethene	ND	0.0034	1	
1,1-Dichloroethane	ND	0.0020	1		Chlorobenzene	ND	0.0023	1	
Chloroform	ND	0.0024	1		p/m-Xylene	ND	0.0043	1	
1,2-Dichloroethane	ND	0.0020	1		o-Xylene	ND	0.0022	1	
1,1,1-Trichloroethane	ND	0.0027	1		Benzyl Chloride	ND	0.0052	1	
Benzene	ND	0.0016	1		1,3-Dichlorobenzene	ND	0.0030	1	
Carbon Tetrachloride	ND	0.0031	1		1,4-Dichlorobenzene	ND	0.0030	1	
Toluene	ND	0.0019	1		1,2-Dichlorobenzene	ND	0.0030	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	06/28/04
Work Order No:	04-06-1671
Preparation:	N/A
Method:	EPA TO-14A
Units:	ug/L

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**095-01-021-2,612**	**N/A**	**Air**	**N/A**	**06/30/04**	**040630L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.0013	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		1,2-Dibromoethane	ND	0.0038	1	
Methylene Chloride	ND	0.0069	1		Tetrachloroethene	ND	0.0034	1	
1,1-Dichloroethane	ND	0.0020	1		Chlorobenzene	ND	0.0023	1	
Chloroform	ND	0.0024	1		p/m-Xylene	ND	0.0043	1	
1,2-Dichloroethane	ND	0.0020	1		o-Xylene	ND	0.0022	1	
1,1,1-Trichloroethane	ND	0.0027	1		Benzyl Chloride	ND	0.0052	1	
Benzene	ND	0.0016	1		1,3-Dichlorobenzene	ND	0.0030	1	
Carbon Tetrachloride	ND	0.0031	1		1,4-Dichlorobenzene	ND	0.0030	1	
Toluene	ND	0.0019	1		1,2-Dichlorobenzene	ND	0.0030	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	06/28/04
4050 Katella Avenue, Suite 209	Date Received:	06/28/04
Los Alamitos, CA 90720-3482	Date Analyzed:	06/28/04
	Work Order No.:	04-06-1671
Attn: Robert McAllister	Method:	EPA 16
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
PPSD	ND	1
PPSU68	ND	1
ISSG4	ND	1
TSI	86	5
ISSH-4	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	85.9	87.7	2	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received:	N/A
Work Order No:	04-06-1671
Preparation:	N/A
Method:	EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-2,612	Air	GC/MS DD	N/A	06/30/04	040630L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	93	95	58-124	1	0-37	
1,2-Dichloroethane	88	90	63-123	2	0-37	
Benzene	84	86	61-121	3	0-37	
Carbon Tetrachloride	100	99	56-126	1	0-42	
1,2-Dichloropropane	87	88	61-121	2	0-37	
c-1,3-Dichloropropene	91	93	62-126	2	0-37	
1,1,2-Trichloroethane	87	88	64-124	2	0-37	
Toluene	75	77	60-120	3	0-39	
Trichloroethene	82	84	65-119	2	0-38	
1,2-Dibromoethane	79	81	63-123	2	0-38	
Tetrachloroethene	71	73	59-119	3	0-40	
Ethylbenzene	84	85	61-127	1	0-38	
p/m-Xylene	90	89	57-129	2	0-39	
Bromoform	93	89	62-134	4	0-38	
o-Xylene	93	92	58-130	1	0-36	
1,4-Dichlorobenzene	75	79	51-147	5	0-49	
1,2-Dichlorobenzene	79	85	41-149	7	0-62	

RPD - Relative Percent Difference , CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501

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Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received: N/A
Work Order No: 04-06-1671
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-01-021-2,610	Air	GC/MS DD	N/A	06/28/04	040628L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	88	89	58-124	1	0-37	
1,2-Dichloroethane	88	88	63-123	0	0-37	
Benzene	84	85	61-121	0	0-37	
Carbon Tetrachloride	92	89	56-128	3	0-42	
1,2-Dichloropropane	85	85	61-121	0	0-37	
c-1,3-Dichloropropene	91	90	62-128	1	0-37	
1,1,2-Trichloroethane	88	87	64-124	1	0-37	
Toluene	75	76	60-120	1	0-39	
Trichloroethene	84	85	65-119	0	0-38	
1,2-Dibromoethane	80	79	63-123	1	0-38	
Tetrachloroethene	73	74	59-119	1	0-40	
Ethylbenzene	89	86	61-127	3	0-38	
p/m-Xylene	89	86	57-129	4	0-39	
Bromoform	100	94	62-134	6	0-38	
o-Xylene	92	90	58-130	2	0-38	
1,4-Dichlorobenzene	102	89	51-147	13	0-49	
1,2-Dichlorobenzene	104	97	41-149	7	0-62	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 04-06-1671

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
D	The analyte concentration was reported from analysis of the diluted sample.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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WORK ORDER #: 04 - 00 - 1671

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: LA by Prosolutz DATE: 8/6/28/4

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
✓ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓	✓	
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation	✓	✓	

Initial: [illegible]

COMMENTS:

Extra Samples PPSU 64 11:26
ISS 64 9:34
ISS 10:40 (w/ condensation)
ISSH-4 10:24

EXHIBIT 1: Sheet 9 of 10

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W-1671

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 6/28/04

Bag (I.D.#)	PPSD									
Condition Received in Lab*	1									

Analyses Requested: Core Group
H_2S

Bags Prepared By: Robert McAllister / Robert McAllister — Time: 11:45 Am — Date: 6/28/04

Bags Taken Out By: _____ — Time: _____

Bags Taken to Lab By: [illegible] — Time: 6/28/04 11:45

Bags Received In Lab By: [illegible] — Time: 6/28/04 11:45

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,
E = Less than ¼ full but contains some sample, N = No sample at all.

J152TMBL.609

EXHIBIT 1: Sheet 10 of 10

EXHIBIT 2

PENROSE LANDFILL - Second Quarter 2004

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

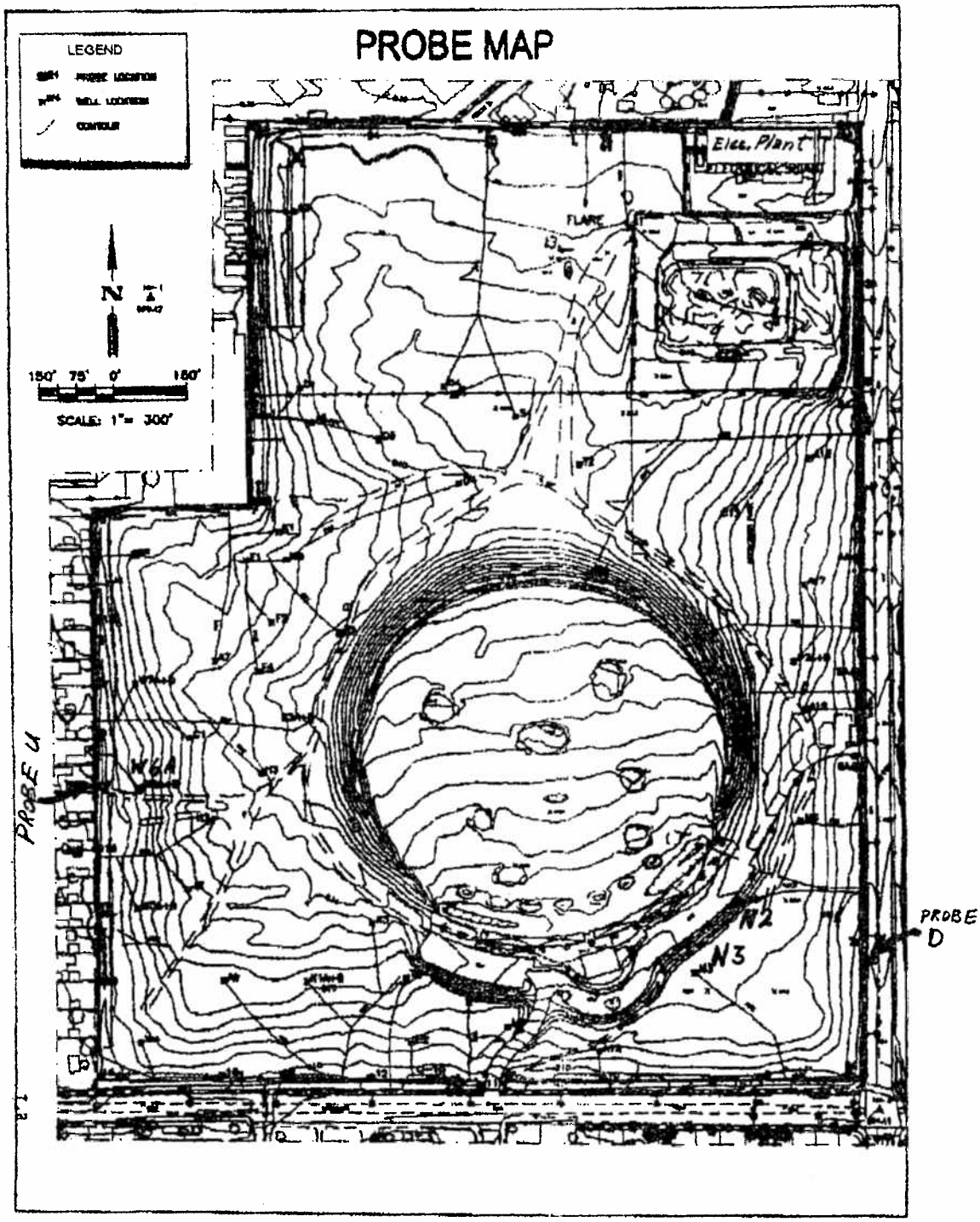
Exhibit 2.2.1: SRBPM Monitoring Results (page 3) – May 24, 04

Exhibit 2.2.2: SRBPM Monitoring Results (page 2) – May 27, 04

Exhibit 2.2.3: LEA required Probe Monitoring Results – June 14, 04

Exhibit 2.2.4: Mitigation and Follow-up Results – May 25 & 28, and June 1, 15, 16, 17, & 18, 04

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – June 28, 04
Samples PPSD and PPSU68 - Hydrogen Sulfide and TO-14A Analyses



TERRA-PETRA INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 624-0494
Fax: (909) 624-8834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

Exhibit 2.1

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PENROSE LANDFILL - SCAQM RULE 1150.1 PROBE MONITORING DATE:

					Page 3
R	10'	12:30.18	12:31.40	ND	5/24/04
	40'	12:33.35	12:34.35		
	80'	12:27.23	12:29.58		
	120'	12:31.54	12:32.15		
S	10'	12:41.44	12:43.05		
	40'	12:40.19	12:41.17		
	80'	12:43.27	12:45.16		
	120'	12:36.20	12:40.04		
T	10'	1:03.47	1:04.55		
	40'	1:01.25	1:03.35		
	73'	12:59.50	1:00.55		4 Pumps.
T-1	72'	12:57.45	12:59.17		
U	10'	1:23.11	1:24.34		
	37'	1:19.15	1:20.35		
	68'	1:21.05	1:22.9	8%	
V	10'	1:32.38	1:33.50	ND	
	40'	1:29.43	1:31.00		
	73'	1:31.22	1:32.27		
W	10'	1:48.40	1:49.51		
	40'	1:45.56	1:47.08		
	80'	1:47.23	1:48.19		
	120'	1:51.27	1:52.54		
	158'	1:50.06	1:51.14		

NOTES:

Exhibit 2.2.1

Rev 03-19-04 tp152tbl 012

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE:

					Page 2
~~B~~ 2		12:56.17	12:59.25	ND	5/27/04
B		1:03.30	1:04.50		
N	GREEN-21'	1:44.45	1:46.20		
	YELLOW-41'	1:43.20	1:44.15		
	~~ORANGE-61'~~	1:47.05	1:48.44		~~MISSING~~
	RED - 81'	1:41.47	1:42.48		
D		1:22.01	1:25.43	6%	
E		1:28.42	1:30.00	ND	
F		1:26.44	1:34.02		
G		1:36.28	1:38.00		
J-1		1:58.56	2:00.28		5/24/04
K-1		2:16.05	2:18.00		
L	GREEN-45'	2:31.15	2:33.18		
	YELLOW-65'	2:28.20	2:29.00		5 pumps
	ORANGE-85'	2:29.23	2:30.34		
	RED - 105'	2:26.51	2:27.57		
C	GREEN-22'	1:14.35	1:16.00		5/27/04
	YELLOW-45'	1:11.15	1:13.13		
	~~ORANGE-68'~~				
	RED - 90'	1:13.45	1:14.10		3 Pumps
P	10'	8:35.55	8:36.45		5/28/04
	40'	8:37.01	8:38.00		
	80'	8:38.20	8:40.50		
P-1	120'	8:41.10	8:42.25		
Q	10'	12:18.01	12:19.09		5/24/04
	40'	12:16.05	12:17.45		
	75'	12:19.27	12:20.10		
	120'	12:21.50	12:22.50		
Q-1	158'	1:39.45	1:40.32		6/28/04

Exhibit 2.2.2

TERRA-PETRA, INC., 415-W. FOOTHILL BL., CLAREMONT, CA 91711-2777 TEL (213) 458-0494, FAX (909) 624-8834

8309 Tujunga Avenue Corp
8301 Tujunga Ave.
Sun Valley, California 91352
Tel: (323) 875-1095 Fax (818) 768-6039

JOB NAME
PENROSE

DATE 6/14/2004
JOB No. TP481

GAS CONCENTRATIONS

TIME	1145 hr.
INITIALS	ATF
INSTRUMENT	GEM 2000
PARAMETER	% Vol.

REMARKS: Landtec GEM 2000 last factory calibrated on 2/10/2004. One exceedance: 11.8% vol.@ U @ 68'. Two other detections (see log). All other results were non-detect (ND) at % volume range. Peak readings stabilized at ND.

Probe #		CH_4	Remarks	Probe #		CH_4	Remarks	Probe #		CH_4	Remarks
1		ND		A-1		ND		R	10'	ND	
2A		ND		B		ND			40'	ND	
3A		ND		C	GREEN-21'	ND			80'	ND	
4A		ND			YELLOW-41'	ND	detached		120'	ND	
5A		ND			RED-81'	ND	vacuum	S	10'	ND	
6A		ND		D		0.6			40'	ND	
7A		ND		E		ND			80'	ND	
8A		ND		F		ND			120'	ND	
9		ND		G		ND		T	10'	ND	
10		ND		J-1		ND			40'	ND	
11		ND		K-1		ND			73'	ND	vacuum
12		ND		L	GREEN-45'	ND		T-1	72'	ND	
13		ND			YELLOW-65'	ND	peak=0.1	U	10'	ND	
14		ND			ORANGE-85'	ND	peak=0.1		37'	ND	
15		ND			RED - 105'	ND			68'	11.8	
16		ND		N	GREEN-22'	ND		V	10'	ND	
17		ND			YELLOW-45'	ND			40'	ND	
18		ND			ORANGE-68'	ND			73'	0.8	
19		ND			RED - 90'	ND		W	10'	ND	
20		ND		P	10'	ND			40'	ND	
21A		ND			40'	ND			80'	ND	
22		ND			80'	ND	peak=0.1		120'	ND	
23		ND		P-1	120'	ND			158'	ND	
24		ND		Q	10'	ND					
25		ND			40'	ND					
26		ND			75'	ND					
				Q-1	120'	ND					
					158'	ND					

NOTES:
Exhibit 2.2.3

rev. 06/14/04, tp481log.008/atf

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8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

July 23, 04

Terra petra INC.
415 W. Foothill Blvd. Suite 301
Claremont, CA. 91711 - 2777

Re: Exceedances of gas reads on probes "D" and "U".

Mr. Feucht:

0800 AM, Tuesday, 05/25/04 Vacuum adjustment was made on gas well W6A to mitigate gas concentrating on probe "U" 68'. Monitored probe "U" @ 1330 the same day, no gas was detected this time.
Another vacuum adjustment was made on gas well N3A @ 1000 AM, 5/28/04 for mitigate gas on probe "D". No gas was detected @ 1100 AM, 06/01/04.
The water pump for condensate trap did not work properly was found @ 0930 AM. Tuesday 06/15/04. Replaced parts on pump and cleared up water blockage on header adjacent to wells W6A+B. Monitored probe "U" @ 68' @ 1100 AM, 06/16/04 No gas was detected. Follow-up monitoring has been taken through Friday 06/18/04, all clear
Should you have any question, please feel free to call me.

Victor Lee

Lead Foreman.

Exhibit 2.2.4

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	06/28/04
Work Order No:	04-06-1671
Preparation:	N/A
Method:	EPA TO-14A
Units:	ug/L

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPSD	04-06-1671-1	06/28/04	Air	N/A	06/29/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	0.18	0.0051	4		Trichloroethene	ND	0.011	4	
1,1-Dichloroethene	ND	0.0079	4		1,2-Dibromoethane	ND	0.015	4	
Methylene Chloride	ND	0.028	4		Tetrachloroethene	ND	0.014	4	
1,1-Dichloroethane	0.012	0.008	4		Chlorobenzene	0.29	0.0092	4	
Chloroform	ND	0.0098	4		p/m-Xylene	0.90	0.01	4	
1,2-Dichloroethane	ND	0.0081	4		o-Xylene	0.31	0.0087	4	
1,1,1-Trichloroethane	ND	0.011	4		Benzyl Chloride	ND	0.021	4	
Benzene	0.11	0.0064	4		1,3-Dichlorobenzene	ND	0.012	4	
Carbon Tetrachloride	ND	0.013	4		1,4-Dichlorobenzene	0.021	0.012	4	
Toluene	0.52	0.0075	4		1,2-Dichlorobenzene	ND	0.012	4	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPSU68	04-06-1671-2	06/28/04	Air	N/A	06/29/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.0051	4		Trichloroethene	ND	0.011	4	
1,1-Dichloroethene	ND	0.0079	4		1,2-Dibromoethane	ND	0.015	4	
Methylene Chloride	ND	0.028	4		Tetrachloroethene	ND	0.014	4	
1,1-Dichloroethane	ND	0.0081	4		Chlorobenzene	0.047	0.009	4	
Chloroform	ND	0.0098	4		p/m-Xylene	0.44	0.01	4	
1,2-Dichloroethane	ND	0.0081	4		o-Xylene	0.15	0.0087	4	
1,1,1-Trichloroethane	ND	0.011	4		Benzyl Chloride	ND	0.021	4	
Benzene	0.020	0.006	4		1,3-Dichlorobenzene	ND	0.012	4	
Carbon Tetrachloride	ND	0.013	4		1,4-Dichlorobenzene	0.026	0.012	4	
Toluene	0.26	0.0075	4		1,2-Dichlorobenzene	ND	0.012	4	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISSG4	04-06-1671-3	06/28/04	Air	N/A	06/29/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.0013	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		1,2-Dibromoethane	ND	0.0038	1	
Methylene Chloride	ND	0.0069	1		Tetrachloroethene	ND	0.0034	1	
1,1-Dichloroethane	ND	0.0020	1		Chlorobenzene	ND	0.0023	1	
Chloroform	ND	0.0024	1		p/m-Xylene	0.19	0.0043	1	
1,2-Dichloroethane	ND	0.0020	1		o-Xylene	0.059	0.002	1	
1,1,1-Trichloroethane	ND	0.0027	1		Benzyl Chloride	ND	0.0052	1	
Benzene	0.011	0.001	1		1,3-Dichlorobenzene	ND	0.0030	1	
Carbon Tetrachloride	ND	0.0031	1		1,4-Dichlorobenzene	ND	0.0030	1	
Toluene	0.15	0.0019	1		1,2-Dichlorobenzene	ND	0.0030	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Exhibit 2.3: Sheet 1 of 2

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	06/28/04
4050 Katella Avenue, Suite 209	Date Received:	06/28/04
Los Alamitos, CA 90720-3482	Date Analyzed:	06/28/04
	Work Order No.:	04-06-1671
Attn: Robert McAllister	Method:	EPA 16
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
PPSD	ND	1
PPSU68	ND	1
ISSG4	ND	1
TSI	86	5
ISSH-4	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	85.9	87.7	2	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX:(714) 894-7501

Exhibit 2.3: Sheet 2 of 2

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EXHIBIT 3

PENROSE LANDFILL - Second Quarter 2004

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 1)

Exhibit 3.2: ILSS TAC Laboratory Results – June 28, 04: Samples PPSG4 and PPSH-4

Hydrogen Sulfide and TO-14A Analyses

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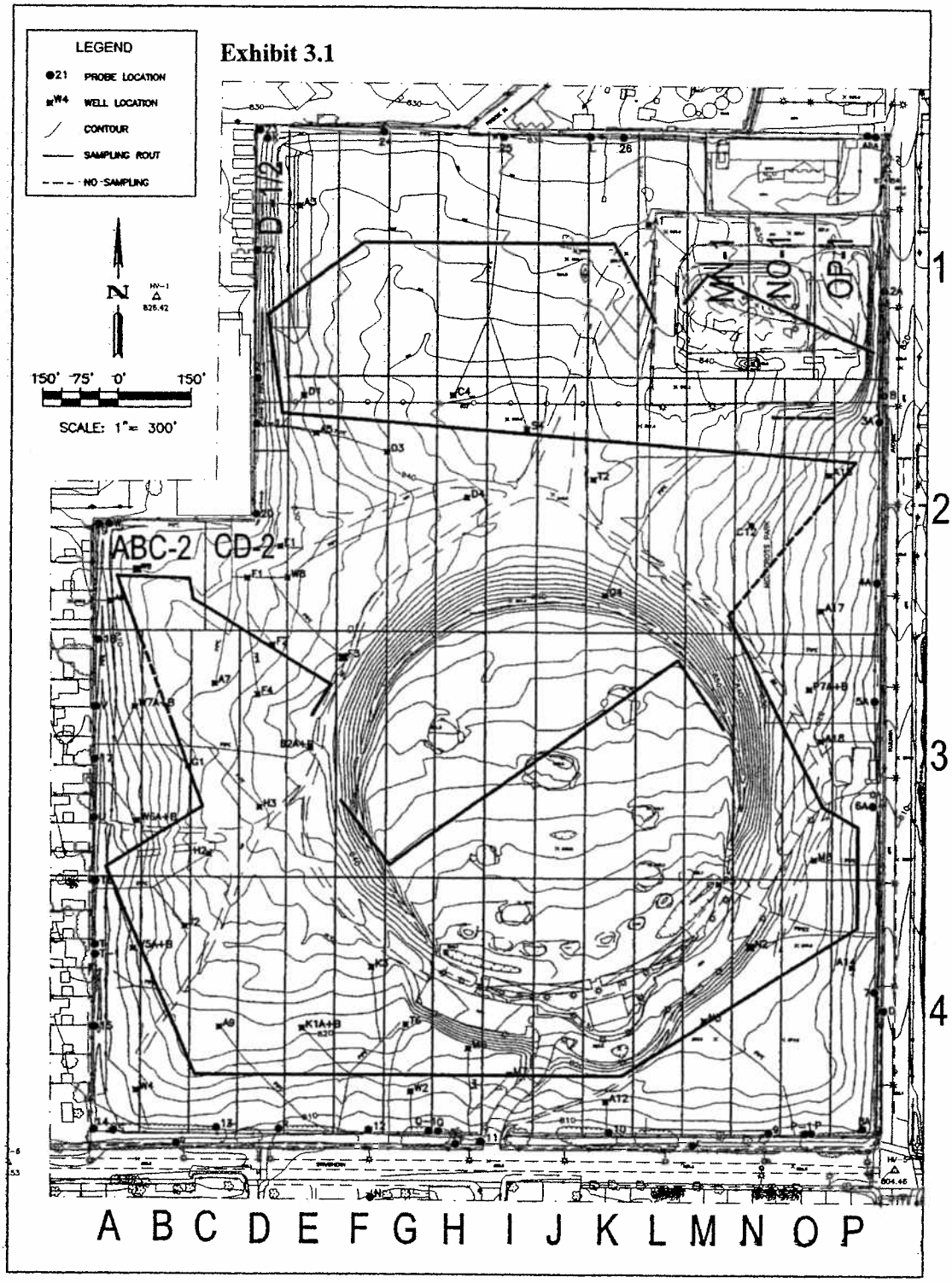
INTEGRATED SAMPLING ROUTE 1



TERRA-PETRA INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 458-0494
Fax: (909) 624-8834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	06/28/04
Work Order No:	04-06-1671
Preparation:	N/A
Method:	EPA TO-14A
Units:	ug/L

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPSD	04-06-1671-1	06/28/04	Air	N/A	06/29/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	0.18	0.0051	4		Trichloroethane	ND	0.011	4	
1,1-Dichloroethene	ND	0.0079	4		1,2-Dibromoethane	ND	0.015	4	
Methylene Chloride	ND	0.028	4		Tetrachloroethene	ND	0.014	4	
1,1-Dichloroethane	0.012	0.006	4		Chlorobenzene	0.29	0.0092	4	
Chloroform	ND	0.0098	4		p/m-Xylene	0.90	0.01	4	
1,2-Dichloroethane	ND	0.0081	4		o-Xylene	0.31	0.0087	4	
1,1,1-Trichloroethane	ND	0.011	4		Benzyl Chloride	ND	0.021	4	
Benzene	0.11	0.0064	4		1,3-Dichlorobenzene	ND	0.012	4	
Carbon Tetrachloride	ND	0.013	4		1,4-Dichlorobenzene	0.021	0.012	4	
Toluene	0.52	0.0075	4		1,2-Dichlorobenzene	ND	0.012	4	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPSU68	04-06-1671-2	06/28/04	Air	N/A	06/29/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.0051	4		Trichloroethane	ND	0.011	4	
1,1-Dichloroethene	ND	0.0079	4		1,2-Dibromoethane	ND	0.015	4	
Methylene Chloride	ND	0.028	4		Tetrachloroethene	ND	0.014	4	
1,1-Dichloroethane	ND	0.0081	4		Chlorobenzene	0.047	0.009	4	
Chloroform	ND	0.0098	4		p/m-Xylene	0.44	0.01	4	
1,2-Dichloroethane	ND	0.0081	4		o-Xylene	0.15	0.0087	4	
1,1,1-Trichloroethane	ND	0.011	4		Benzyl Chloride	ND	0.021	4	
Benzene	0.020	0.006	4		1,3-Dichlorobenzene	ND	0.012	4	
Carbon Tetrachloride	ND	0.013	4		1,4-Dichlorobenzene	0.026	0.012	4	
Toluene	0.28	0.0075	4		1,2-Dichlorobenzene	ND	0.012	4	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISSG4	04-06-1671-3	06/28/04	Air	N/A	06/29/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.0013	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		1,2-Dibromoethane	ND	0.0038	1	
Methylene Chloride	ND	0.0069	1		Tetrachloroethene	ND	0.0034	1	
1,1-Dichloroethane	ND	0.0020	1		Chlorobenzene	ND	0.0023	1	
Chloroform	ND	0.0024	1		p/m-Xylene	0.19	0.0043	1	
1,2-Dichloroethane	ND	0.0020	1		o-Xylene	0.059	0.002	1	
1,1,1-Trichloroethane	ND	0.0027	1		Benzyl Chloride	ND	0.0052	1	
Benzene	0.011	0.001	1		1,3-Dichlorobenzene	ND	0.0030	1	
Carbon Tetrachloride	ND	0.0031	1		1,4-Dichlorobenzene	ND	0.0030	1	
Toluene	0.15	0.0019	1		1,2-Dichlorobenzene	ND	0.0030	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

Exhibit 3.2: Sheet 1 of 3

Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products		Date Received:	06/28/04
4050 Katella Avenue, Suite 209		Work Order No:	04-06-1671
Los Alamitos, CA 90720-3482		Preparation:	N/A
		Method:	EPA TO-14A
		Units:	ug/L

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	04-06-1671-4	06/28/04	Air	N/A	06/29/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	0.53	0.16	125		Trichloroethene	0.38	0.34	125	
1,1-Dichloroethene	ND	0.25	125		1,2-Dibromoethane	ND	0.48	125	
Methylene Chloride	ND	0.87	125		Tetrachloroethene	0.60	0.42	125	
1,1-Dichloroethane	ND	0.25	125		Chlorobenzene	2.8	0.2	125	
Chloroform	ND	0.31	125		p/m-Xylene	26	0.54	125	
1,2-Dichloroethane	ND	0.25	125		o-Xylene	13	0.27	125	
1,1,1-Trichloroethane	ND	0.34	125		Benzyl Chloride	ND	0.65	125	
Benzene	3.6	0.2	125		1,3-Dichlorobenzene	0.91	0.38	125	
Carbon Tetrachloride	ND	0.39	125		1,4-Dichlorobenzene	5.7	0.3	125	
Toluene	29	2	1250	D	1,2-Dichlorobenzene	2.0	0.3	125	

ISSH-4	04-06-1671-5	06/28/04	Air	N/A	06/29/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.0013	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		1,2-Dibromoethane	ND	0.0038	1	
Methylene Chloride	ND	0.0069	1		Tetrachloroethene	ND	0.0034	1	
1,1-Dichloroethane	ND	0.0020	1		Chlorobenzene	ND	0.0023	1	
Chloroform	ND	0.0024	1		p/m-Xylene	0.25	0.0043	1	
1,2-Dichloroethane	ND	0.0020	1		o-Xylene	0.080	0.002	1	
1,1,1-Trichloroethane	ND	0.0027	1		Benzyl Chloride	ND	0.0052	1	
Benzene	0.014	0.001	1		1,3-Dichlorobenzene	ND	0.0030	1	
Carbon Tetrachloride	ND	0.0031	1		1,4-Dichlorobenzene	ND	0.0030	1	
Toluene	0.27	0.0075	4	D	1,2-Dichlorobenzene	ND	0.0030	1	

Method Blank	095-01-021-2,610	N/A	Air	N/A	06/28/04	040628L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.0013	1		Trichloroethene	ND	0.0027	1	
1,1-Dichloroethene	ND	0.0020	1		1,2-Dibromoethane	ND	0.0038	1	
Methylene Chloride	ND	0.0069	1		Tetrachloroethene	ND	0.0034	1	
1,1-Dichloroethane	ND	0.0020	1		Chlorobenzene	ND	0.0023	1	
Chloroform	ND	0.0024	1		p/m-Xylene	ND	0.0043	1	
1,2-Dichloroethane	ND	0.0020	1		o-Xylene	ND	0.0022	1	
1,1,1-Trichloroethane	ND	0.0027	1		Benzyl Chloride	ND	0.0052	1	
Benzene	ND	0.0016	1		1,3-Dichlorobenzene	ND	0.0030	1	
Carbon Tetrachloride	ND	0.0031	1		1,4-Dichlorobenzene	ND	0.0030	1	
Toluene	ND	0.0019	1		1,2-Dichlorobenzene	ND	0.0030	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Exhibit 3.2: Sheet 2 of 3

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	06/28/04
4050 Katella Avenue, Suite 209	Date Received:	06/28/04
Los Alamitos, CA 90720-3482	Date Analyzed:	06/28/04
	Work Order No.:	04-06-1671
Attn: Robert McAllister	Method:	EPA 16
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
PPSD	ND	1
PPSU68	ND	1
ISSG4	ND	1
TSI	86	5
ISSH-4	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	85.9	87.7	2	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Exhibit 3.2: Sheet 3 of 3

October 25, 2004
Job # TP152

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Third Quarter, 2004
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the forty-fourth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period July through September 2004. This is the eighteenth quarterly report submitted under the March 17, 2000 amended version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill (approved October 1, 2004).

There were no exceedances detected during the integrated landfill surface sampling (ILSS), during the instantaneous landfill surface monitoring (ILSM), or from subsurface refuse boundary probes (SRBP) during the third quarter of 2004.

1. Reporting Requirements

South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2004 third quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 77 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on July 29 and 30, August 31, and September 28 and 29, 2004. Probe TOC (non-compliance, i.e. does not meet all

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SCAQMD criteria) monitoring was performed by Terra-Petra, Inc. on July 13, August 13, and September 14, 2004, for the City of Los Angeles, Environmental Affairs Department (LEA) requirements. The LEA Inspector monitoring of selected probes were reported for July 21, August 25, and September 22, 2004, during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes V at 80' and Q at 80' were sampled on October 04, 2004).

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 2 traversed, sampled, and monitored for TOC on September 27, 28, and 29, 2004; Grids AB-2 and A-3 were sampled for TAC laboratory analyses on October 04, 2004).

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west), on July 23, August 23, and September 23, 2004. In July and September Path B was monitored, and in August, Path A was monitored.

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection, header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled October 04, 2004).

All monitoring and sampling activities, except for agency inspections, the bi-monthly (non-compliance) probe monitoring, and follow-up mitigation and monitoring (when required) are performed by Los Angeles By-Products (LABP) personnel.

2. Record Keeping Requirements

Section (f)(1) of the Rule describes the record keeping requirements. Section (f)(1) of the Rule describes the record keeping requirements. The RECORDS are available for SCAQMD inspection at the Strathern Landfill weigh station on the east side of Tujunga Avenue across from Penrose Landfill. Section (f)(2) of the Rule requires that this report contain documentation regarding exceedances (and follow-up mitigation measures and results) and TAC laboratory results. The requirements regarding exceedances are summarized in the text of this report and required supplemental documentation is included as attachments in the EXHIBITS with this report. The TAC results are included as EXHIBITS with this report.

The list below inventories the documents supplemental to this report, and required by the Rule, that are available as RECORDS in concurrence with Section (f)(1), but are not included with this report.

- ILSM traverse route maps and inspection reports;
- Quality Control Sheets (QCS) for SRBPM, SRBPS, ILSS, ILSM (maps only), and TSI (except when pertinent as documentation required for reporting exceedances); and;
- Documents for non-SCAQMD probe monitoring events (except when pertinent as documentation required for reporting exceedances).

3. Control System - 8309 Tujunga Avenue Corp. (8309 TAC) - Penrose Power Plant

Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at 8309 TAC's Plant at 8301 Tujunga Avenue, Sun Valley.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

4. Compliance Probe Monitoring Results

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on July 29 and 30, August 31, and September 28 and 29, 2004. Results: there were no exceedances detected during Rule 1150.1 compliance probe monitoring events. There were no exceedances detected during other probe monitoring events.

5. Compliance Probe Sampling Results

Two probe TAC samples were collected on October 04, 2004 from Probes V at 80' and Q at 80'. The field TOC readings were non-detect (ND) at both probes at % of volume range with a GasTech Natural Gas Indicator, Model NPL-204, calibrated to methane (CH_4). The lab TAC results (sample I.D.# s PPS V80' and PPS Q80') are included in EXHIBIT 2.2.

6. Integrated Landfill Surface Sampling (ILSS) Results: (see Map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples (from 58 grids) were collected in Tedlar bags and analyzed with a Foxboro portable Organic Vapor Analyzer (OVA), Model OVA Century 128, Flame Ionization Detector (FID), calibrated to methane. The results were recorded on the quality control sheets (QCS). The two samples collected for laboratory analyses, ISS AB#2 from grid AB-2 and ISS #3A from grid A-3, read ND as measured by the FID. The Tedlar Bag samples from the other 56 grids also registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as

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allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. Instantaneous Landfill Surface Monitoring (ILSM) Results

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On July 23 and September 23 Path B was monitored, and on August 23, Path A was monitored. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

8. Toxic Air Contaminant Results

As required by Section (f)(2)(B)(ii) of the Rule, third quarter 2004 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) EXHIBIT 1;
- SRBPS (Samples PPS V80' and PPS Q80') EXHIBIT 2.2; and
- ILSS (Samples ISS AB#2 and ISS #3A) EXHIBIT 3.2.

9. Certification

This quarterly report and certification is based upon Terra-Petra's understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas, migration control and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the Third Quarter of 2004.

Sincerely,
Terra-Petra, Inc.

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John Conaway, P. E.

REGISTERED PROFESSIONAL ENGINEER JOHNNY RAY CONAWAY NO. C 19,689 exp. 10-30-04 CIVIL STATE OF CALIFORNIA

Distribution:

SCAQMD, Mr. Rich Tambara, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado

California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for Third Quarter 2004 Compliance Report

EXHIBIT 1 - Control Device Laboratory Results

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – October 4, 04

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – October 4, 04

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 2)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - October 4, 04

tp152rpt.304

EXHIBIT 1

PENROSE LANDFILL - Third Quarter 2004

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results – October 4, 04: Sample TSI

Hydrogen Sulfide and TO-14A Analyses

EXHIBIT 2

PENROSE LANDFILL - Third Quarter 2004

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – October 4, 04
Samples PPS V80' and PPS Q80' - Hydrogen Sulfide and TO-14A Analyses

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DISTRIBUTION INSTRUCTIONS Job TP152 (rev. 10-18-04)

THIRD QUARTER 2004 REPORT

FOR: Penrose Landfill, 11501 Strathern Street, Sun Valley, CA

1) Make 4 copies;

2) Mail text and copy of documents to Mr. Rich Tambara, Toxics and Waste Management Branch, California South Coast Air Quality Management District, 21865 E. Copley Drive, Diamond Bar, California 91765-4182

3) Mail text and documents to Mr. Peter Janicke, California Integrated Waste Management Board, PO Box 4025, Sacramento, CA 95812-4025

4) Mail text and documents to Mr. Michael Mercado, City of Los Angeles, Local Enforcement Agency, 200 North Spring St., Room 1905, Mailstop 248, Los Angeles, California 90012

5) Mail copies of text and documents to Mr. Mike McAllister, LOS ANGELES BY-PRODUCTS Co., 4050 Katella Ave., Suite 209, Los Alamitos, California 90720

6) File copy of text and original documents in File TP152.

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California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention:Mr. Rich Tambara
Toxics and Waste Management Branch

California Integrated Waste Management Board
1001 I Street
Sacramento, CA 95814

Attention: Mr. Peter Janicke

City of Los Angeles
Local Enforcement Agency
200 North Spring St., Room 1905, Mailstop 248
Los Angeles, California 90012

Attention: Mr. Michael Mercado

LOS ANGELES BY-PRODUCTS Co.
4050 Katella Ave., Suite 209
Los Alamitos, California 90720

Attention: Mr. Mike McAllister

Enclosures: for Third Quarter 2004, Penrose LF, Compliance Report (# of pages)

EXHIBIT 1 - Control Device Laboratory Results Sheet 1 of 9 (1)

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – October 4, 04 (8)

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation (1)

Exhibit 2.1: Probe Location Map (1)

Exhibit 2.2 SRBPS TAC Laboratory Results:
Samples PPS V80' and PPS Q80' - Hydrogen Sulfide and TO-14A Analyses – Oct. 4, 04 (3)

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation (1)

Exhibit 3.1: ILSS Traverse Map (Route 2) (1)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses – Oct. 4, 04
Samples ISS AB#2 and ISS #3A - Hydrogen Sulfide and TO-14A Analyses – Oct. 4, 04 (2)

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Calscience Environmental Laboratories, Inc.

October 07, 2004

Robert McAllister
L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.: 04-10-0128**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/4/2004 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Ranjit K. T. Clarke

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	10/04/04
Work Order No:	04-10-0128
Preparation:	N/A
Method:	EPA TO-14A
Units:	ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPS Q80'	**04-10-0128-4**	**10/04/04**	**Air**	**N/A**	**10/06/04**	**041005L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,2-Dibromoethane	ND	0.50	1	
Methylene Chloride	ND	2.0	1		Tetrachloroethene	0.55	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Chlorobenzene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	40	1	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	14	0.50	1	
1,1,1-Trichloroethane	ND	0.50	1		Benzyl Chloride	ND	1.0	1	
Benzene	5.3	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		1,4-Dichlorobenzene	ND	0.50	1	
Toluene	46	0.50	1		1,2-Dichlorobenzene	ND	0.50	1	

TSI	**04-10-0128-5**	**10/04/04**	**Air**	**N/A**	**10/06/04**	**041005L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	150	14	27.5		Trichloroethene	73	14	27.5	
1,1-Dichloroethene	130	14	27.5		1,2-Dibromoethane	ND	14	27.5	
Methylene Chloride	ND	55	27.5		Tetrachloroethene	69	14	27.5	
1,1-Dichloroethane	ND	14	27.5		Chlorobenzene	630	14	27.5	
Chloroform	ND	14	27.5		p/m-Xylene	6200	550	550	D
1,2-Dichloroethane	ND	14	27.5		o-Xylene	3000	280	550	D
1,1,1-Trichloroethane	ND	14	27.5		Benzyl Chloride	ND	28	27.5	
Benzene	1100	14	27.5		1,3-Dichlorobenzene	22	14	27.5	
Carbon Tetrachloride	ND	14	27.5		1,4-Dichlorobenzene	270	14	27.5	
Toluene	8700	280	550	D	1,2-Dichlorobenzene	87	14	27.5	

Method Blank	**095-01-021-2,734**	**N/A**	**Air**	**N/A**	**10/05/04**	**041005L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,2-Dibromoethane	ND	0.50	1	
Methylene Chloride	ND	2.0	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Chlorobenzene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1,1-Trichloroethane	ND	0.50	1		Benzyl Chloride	ND	1.0	1	
Benzene	ND	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		1,4-Dichlorobenzene	ND	0.50	1	
Toluene	ND	0.50	1		1,2-Dichlorobenzene	ND	0.50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products		Date Sampled:	10/04/04
4050 Katella Avenue, Suite 209		Date Received:	10/04/04
Los Alamitos, CA 90720-3482		Date Analyzed:	10/04/04
		Work Order No.:	04-10-0128
Attn: Robert McAllister		Method:	EPA 16
RE: Penrose Landfill		Page 1 of 1	

All concentrations are reported in ppmv.

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
ISS AB#2	ND	1
ISS #3A	ND	1
PPS V80'	ND	1
PPS Q80'	ND	1
TSI	110	10
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
04-10-0128-5 (Duplicate)	110	120	9	0 - 15

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: N/A
Work Order No: 04-10-0128
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-2,734	Air	GC/MS DD	N/A	10/05/04	041005L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	103	106	58-124	2	0-37	
1,2-Dichloroethane	100	100	63-123	0	0-37	
Benzene	93	91	61-121	2	0-37	
Carbon Tetrachloride	102	101	56-128	1	0-42	
1,2-Dichloropropane	95	93	61-121	2	0-37	
c-1,3-Dichloropropene	101	100	62-128	1	0-37	
1,1,2-Trichloroethane	97	96	64-124	1	0-37	
Toluene	81	79	60-120	1	0-39	
Trichloroethene	94	93	65-119	1	0-38	
1,2-Dibromoethane	83	82	63-123	1	0-38	
Tetrachloroethene	79	78	59-119	0	0-40	
Ethylbenzene	83	82	61-127	1	0-38	
p/m-Xylene	84	83	57-129	1	0-39	
Bromoform	86	85	62-134	1	0-38	
o-Xylene	85	84	58-130	1	0-38	
1,4-Dichlorobenzene	101	100	51-147	1	0-49	
1,2-Dichlorobenzene	106	104	41-149	2	0-62	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 04-10-0128

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
D	The analyte concentration was reported from analysis of the diluted sample.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

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04-10 - 0128

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 10/04/04

Bag (I.D.#)	PGI	AS#2	#3A	Q80'	V80'					
Condition Received in Lab*		IGS	DSS	PPS	PPS					

Analyses Requested:

Bags Prepared By: [illegible] Time: 12:01 pm

Date: 10/04/04

Bags Taken Out By: _____ Time: _____

Bags Taken to Lab By: _____ Time: _____

Bags Received In Lab By: _____ Time: _____

* F = ½ full to full, O - Overfull (Bulging), L - ¼ to ½ full,

E = Less than ¼ full but contains some sample, N - No sample at all.

J157TABL.SOV

EXHIBIT 1: Sheet 7 of 9

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10 - 028

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 10-04-04

	ISS	ISS	PPS	PPS						
Bag (I.D.#)	A6#2	#3A	V80'	Q80'						
Condition Received in Lab*	[redacted]	[redacted]		[redacted]						

Analyses Requested: CORE GROW

H_2S

Bags Prepared By: Robert McAllister Time: [redacted]

Date: 10/4/04

Bags Taken Out By: [signature] Time: 15:05

Bags Taken to Lab By: [signature] Time: 17:40

Bags Received In Lab By: [signature] Time: 17:48

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

J152TABL.608

EXHIBIT 1: Sheet 8 of 9

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 04 - 10 - 0128

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: LA By PRODUCTS DATE: 10-04-04

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ____ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ✓ Ambient temperature. AIR BAGS
- ____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: MS

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact): ____ Not Applicable (N/A): ✓

Initial: MS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) Intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation	✓		

Initial: MS

COMMENTS:

EXTRA TEDLAR BAG WITH ID TSI (1145 AM RECEIVED; IT WAS LABELED AS #5 (04-10-0128-5-A) KN 10/4/04

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PROBE MAP

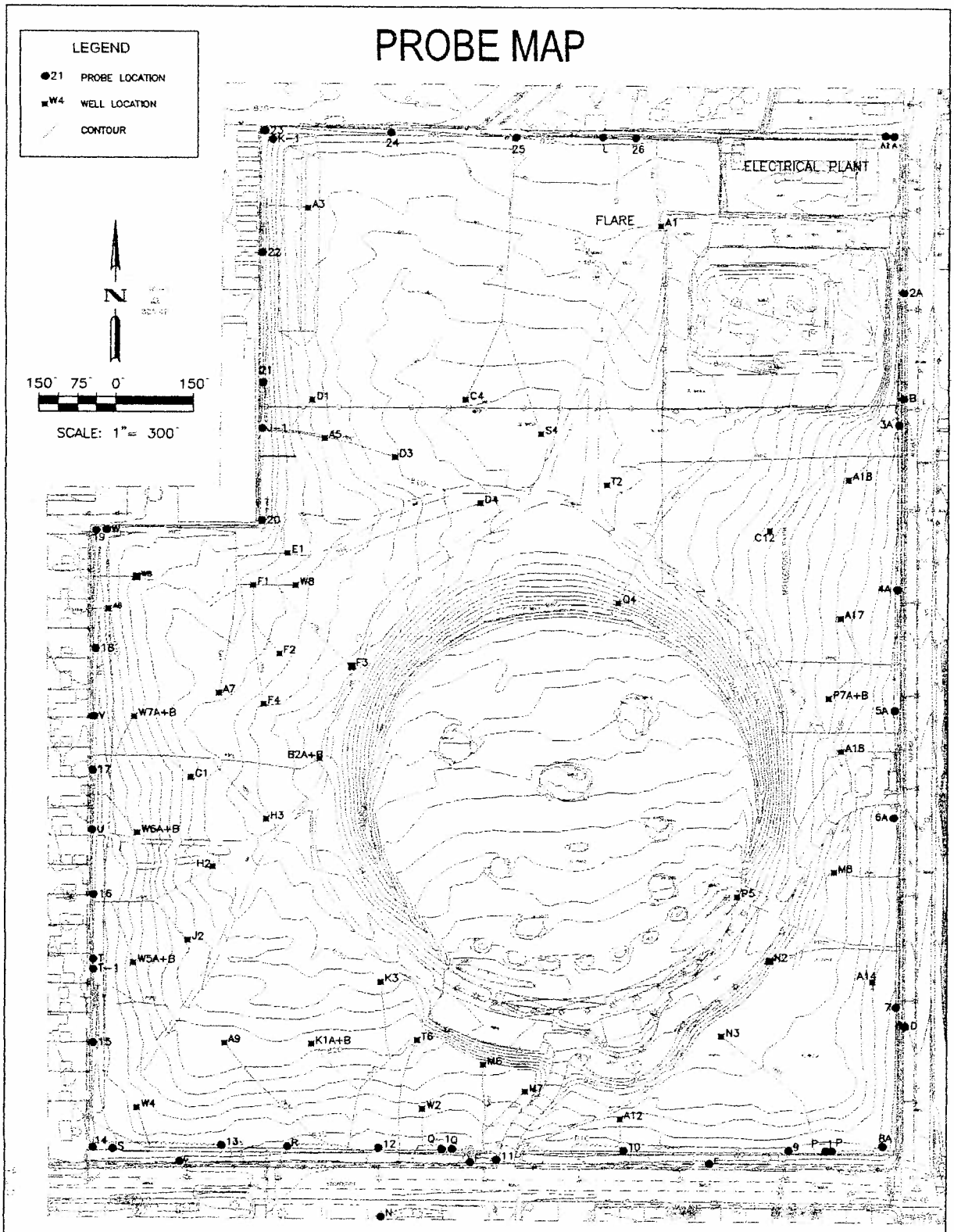

Exhibit 2.1

TERRA-PETRA
INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 458-0494
Fax: (909) 624-8834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 10/04/04
Work Order No: 04-10-0128
Preparation: N/A
Method: EPA TO-14A
Units: ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS AB#2	04-10-0128-1	10/04/04	Air	N/A	10/05/04	041005L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,2-Dibromoethane	ND	0.50	1	
Methylene Chloride	ND	2.0	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Chlorobenzene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	34	1	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	12	0.50	1	
1,1,1-Trichloroethane	ND	0.50	1		Benzyl Chloride	ND	1.0	1	
Benzene	5.4	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		1,4-Dichlorobenzene	ND	0.50	1	
Toluene	44	0.50	1		1,2-Dichlorobenzene	ND	0.50	1	

ISS #3A	04-10-0128-2	10/04/04	Air	N/A	10/05/04	041005L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,2-Dibromoethane	ND	0.50	1	
Methylene Chloride	ND	2.0	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Chlorobenzene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	37	1	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	13	0.50	1	
1,1,1-Trichloroethane	ND	0.50	1		Benzyl Chloride	ND	1.0	1	
Benzene	5.9	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		1,4-Dichlorobenzene	ND	0.50	1	
Toluene	48	0.50	1		1,2-Dichlorobenzene	ND	0.50	1	

PPS V80'	04-10-0128-3	10/04/04	Air	N/A	10/05/04	041005L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,2-Dibromoethane	ND	0.50	1	
Methylene Chloride	ND	2.0	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Chlorobenzene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	60	1	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	22	0.50	1	
1,1,1-Trichloroethane	ND	0.50	1		Benzyl Chloride	ND	1.0	1	
Benzene	6.2	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		1,4-Dichlorobenzene	ND	0.50	1	
Toluene	68	2	5	D	1,2-Dichlorobenzene	ND	0.50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	10/04/04
Work Order No:	04-10-0128
Preparation:	N/A
Method:	EPA TO-14A
Units:	ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPS Q80'	**04-10-0128-4**	**10/04/04**	**Air**	**N/A**	**10/06/04**	**041005L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,2-Dibromoethane	ND	0.50	1	
Methylene Chloride	ND	2.0	1		Tetrachloroethene	0.55	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Chlorobenzene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	40	1	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	14	0.50	1	
1,1,1-Trichloroethane	ND	0.50	1		Benzyl Chloride	ND	1.0	1	
Benzene	5.3	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		1,4-Dichlorobenzene	ND	0.50	1	
Toluene	46	0.50	1		1,2-Dichlorobenzene	ND	0.50	1	

TSI	**04-10-0128-5**	**10/04/04**	**Air**	**N/A**	**10/06/04**	**041005L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	150	14	27.5		Trichloroethene	73	14	27.5	
1,1-Dichloroethene	130	14	27.5		1,2-Dibromoethane	ND	14	27.5	
Methylene Chloride	ND	55	27.5		Tetrachloroethene	69	14	27.5	
1,1-Dichloroethane	ND	14	27.5		Chlorobenzene	630	14	27.5	
Chloroform	ND	14	27.5		p/m-Xylene	6200	550	550	D
1,2-Dichloroethane	ND	14	27.5		o-Xylene	3000	280	550	D
1,1,1-Trichloroethane	ND	14	27.5		Benzyl Chloride	ND	28	27.5	
Benzene	1100	14	27.5		1,3-Dichlorobenzene	22	14	27.5	
Carbon Tetrachloride	ND	14	27.5		1,4-Dichlorobenzene	270	14	27.5	
Toluene	8700	280	550	D	1,2-Dichlorobenzene	87	14	27.5	

Method Blank	**095-01-021-2,734**	**N/A**	**Air**	**N/A**	**10/05/04**	**041005L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,2-Dibromoethane	ND	0.50	1	
Methylene Chloride	ND	2.0	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Chlorobenzene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	0.50	1	
1,1,1-Trichloroethane	ND	0.50	1		Benzyl Chloride	ND	1.0	1	
Benzene	ND	0.50	1		1,3-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		1,4-Dichlorobenzene	ND	0.50	1	
Toluene	ND	0.50	1		1,2-Dichlorobenzene	ND	0.50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482	Date Sampled: Date Received: Date Analyzed:	10/04/04 10/04/04 10/04/04
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	04-10-0128 EPA 16

All concentrations are reported in ppmv.

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
ISS AB#2	ND	1
ISS #3A	ND	1
PPS V80'	ND	1
PPS Q80'	ND	1
TSI	110	10
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
04-10-0128-5 (Duplicate)	110	120	9	0 - 15

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PENROSE LANDFILL
INTEGRATED SAMPLING ROUTE 2

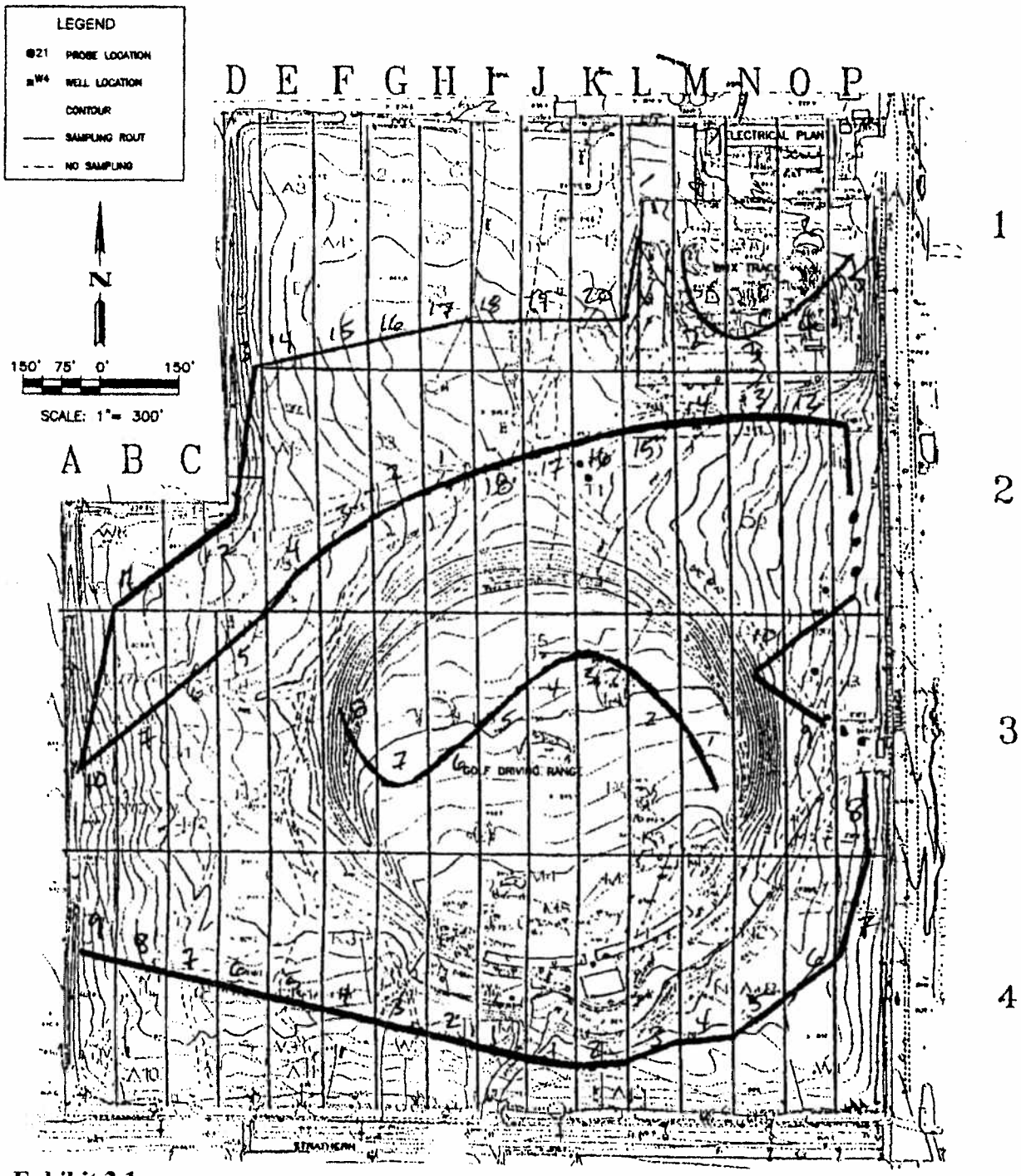

Exhibit 3.1

TERRA-PETRA INCORPORATED
415 W. Foothill Blvd., Suite 301
Claremont, CA 91711-2777
Phone: (213) 458-0494
Fax: (909) 624-8834

PENROSE LANDFILL
11501 STRATHERN ST.
SUN VALLEY, CA

LOS ANGELES BY-PRODUCTS CO.
4050 KATELLA AVE., SUITE 209
LOS ALAMITOS, CA 90720
T: 562 431 3090
F: 562 431 5140

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Calscience Environmental Laboratories, Inc.

Analytical Report

L.A. By Products
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	10/04/04
Work Order No:	04-10-0128
Preparation:	N/A
Method:	EPA TO-14A
Units:	ppb (v/v)

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS AB#2	04-10-0128-1	10/04/04	Air	N/A	10/05/04	041005L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,2-Dibromoethane	ND	0.50	1	
Methylene Chloride	ND	2.0	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Chlorobenzene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	34	1	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	12	0.50	1	
1,1,1-Trichloroethane	ND	0.50	1		Benzyl Chloride	ND	1.0	1	
Benzene	5.4	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		1,4-Dichlorobenzene	ND	0.50	1	
Toluene	44	0.50	1		1,2-Dichlorobenzene	ND	0.50	1	

ISS #3A	04-10-0128-2	10/04/04	Air	N/A	10/05/04	041005L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,2-Dibromoethane	ND	0.50	1	
Methylene Chloride	ND	2.0	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Chlorobenzene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	37	1	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	13	0.50	1	
1,1,1-Trichloroethane	ND	0.50	1		Benzyl Chloride	ND	1.0	1	
Benzene	5.9	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		1,4-Dichlorobenzene	ND	0.50	1	
Toluene	48	0.50	1		1,2-Dichlorobenzene	ND	0.50	1	

PPS V80'	04-10-0128-3	10/04/04	Air	N/A	10/05/04	041005L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Vinyl Chloride	ND	0.50	1		Trichloroethene	ND	0.50	1	
1,1-Dichloroethene	ND	0.50	1		1,2-Dibromoethane	ND	0.50	1	
Methylene Chloride	ND	2.0	1		Tetrachloroethene	ND	0.50	1	
1,1-Dichloroethane	ND	0.50	1		Chlorobenzene	ND	0.50	1	
Chloroform	ND	0.50	1		p/m-Xylene	60	1	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	22	0.50	1	
1,1,1-Trichloroethane	ND	0.50	1		Benzyl Chloride	ND	1.0	1	
Benzene	6.2	0.5	1		1,3-Dichlorobenzene	ND	0.50	1	
Carbon Tetrachloride	ND	0.50	1		1,4-Dichlorobenzene	ND	0.50	1	
Toluene	68	2	5	D	1,2-Dichlorobenzene	ND	0.50	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Exhibit 3.2: Sheet 1 of 2

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482		Date Sampled: Date Received: Date Analyzed:	10/04/04 10/04/04 10/04/04
Attn: Robert McAllister RE: Penrose Landfill		Work Order No.: Method: Page 1 of 1	04-10-0128 EPA 16

All concentrations are reported in ppmv.

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
ISS AB#2	ND	1
ISS #3A	ND	1
PPS V80'	ND	1
PPS Q80'	ND	1
TSI	110	10
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
04-10-0128-5 (Duplicate)	110	120	9	0 - 15

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Exhibit 3.2: Sheet 2 of 2

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METHANE SPECIALISTS
621 Via Alondra Suite 611
Camarillo CA, 93012
www.methanespecialists.com
TEL (805) 987-5356
FAX(805) 987-3968

February 14, 2003
Job # 152-6

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Fourth Quarter, 2002
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the thirty-seventh quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October through December 2002. This is the eleventh quarterly report submitted under the 1999 revised version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill.

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the fourth quarter of 2002. One exceedance was detected from *subsurface refuse boundary probes* (SRBP).

1. Reporting Requirements

South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2002 fourth quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on October 25 and 31, November 25, 27, and December 3, and December 27, 2002 and January 7, 2003. TOC (non-

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compliance monitoring was performed by Methane Specialists for the City of Los Angeles, Environmental Affairs Department (LEA) requirements) on October 11, November 7, and December 10, 2002. The LEA Inspector monitoring of selected probes were reported for October 23, and November 19, 2002 , during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes Q at 40' and D were sampled on January 9, 2002).

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 3 traversed, sampled and monitored for TOC on December 26, 2002 and January 8, 2003; Grids B-4 and A-4 were sampled for TAC laboratory analyses on January 8, 2003).

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on October 23, November 8, and December 6, 2002. In October and December Path A was monitored, and in November Path B was monitored.

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection, header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled January 9, 2003).

- Collect (annually) ambient air samples (AAS) to determine the concentration of TOC and TAC from upwind (background) locations and downwind locations. Per Attachment A, Section 5.1: "....ambient air samples shall be collected for analysis at the landfill property boundary from both an upwind and downwind sampler sited to provide good meteorological exposure to the predominant offshore (drainage land breeze) and on-shore (sea breeze) wind flow patterns. The upwind and downwind samples shall be collected simultaneously over two 12 hour periods beginning between 9:00 a.m. and 10:00 a.m., and 9:00 p.m. and 10:00 p.m. on the same day or different days." (sampled January 8 and 9, 2003).

All monitoring and sampling activities, except for agency inspections, the bi-monthly (non-compliance) probe monitoring, the ambient air sampling, and monitoring of TOC readings of SRBPS, ILSS, TSI and AAS samples were performed by Los Angeles By-Products (LABP) personnel.

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2. Record Keeping Requirements

Section (f)(1) of the Rule describes the record keeping requirements. Section (f)(1) of the Rule describes the record keeping requirements. The RECORDS are available for SCAQMD inspection at the Strathern Landfill weigh station on the east side of Tujunga Avenue across from Penrose Landfill. Section (f)(2) of the Rule requires that this report contain documentation regarding exceedances (and follow-up mitigation measures and results) and TAC laboratory results. The requirements regarding exceedances are summarized in the text of this report and required supplemental documentation is included as attachments in the EXHIBITS with this report. The TAC results are included as EXHIBITS with this report.

The list below inventories the documents supplemental to this report, and required by the Rule, that are available as RECORDS in concurrence with Section (f)(1), but are not included with this report.

- Wind speed and direction data during the AAS event;
- Maps showing ILSM traverse routes; and
- Quality Control Sheets (QCS) for SRBPM, ILSS, ILSM (maps only), TSI, and AAS.

3. Control System - 8309 Tujunga Avenue Corp. (8309 TAC) - Penrose Power Plant

Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at 8309 TAC's Plant at 8301 Tujunga Avenue, Sun Valley.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

4. Compliance Probe Monitoring Results

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on October 25 and 31, November 25, 27, and December 3, and December 27, 2002 and January 7, 2003. Results: There were no exceedances detected in compliance probes during these fourth quarter 2002 monitoring events. One exceedance was detected in compliance probes during the quarterly probe sampling at Probe D on January 9, 2003.

Exceedance: 01-09-03: 8% of volume at Probe D (see EXHIBIT 2.2.1).

Mitigation Measures and Follow-up Results: 01-09-03: according to the Rule, the first mitigation measure is to make extraction well adjustments (Wells D3A&B flow rates were

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increased at ~ 1030 hours). Follow-up monitoring results on January 9 at Probe D are presented in EXHIBIT 2.2.2 (Probe D read 0.15% of volume at 1400 hours).

5. **Compliance Probe Sampling Results**

Two probe TAC samples were collected on January 9, 2003 from Probes Q at 40' and D. The field TOC was non-detect from Probe Q, but the Probe D sample registered 8% by volume with a GasTech Natural Gas Indicator, Model NPL-204, calibrated to methane (CH_4). The lab TOC result indicated 5,5% by volume from the sample from Probe D and the TAC results (sample I.D.# s Q-40' and D) are included in EXHIBIT 2.3.

6. **Integrated Landfill Surface Sampling (ILSS) Results**: (see traverse map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). The two samples collected for laboratory analyses, A-4 from grid A-4 and B-4 from grid B-4 read 0.2 ppm as measured by a HeathTech Decto Pak III FID. The other 57 samples registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results (samples A-4 and B-4) in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. **Instantaneous Landfill Surface Monitoring (ILSM) Results**

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On October 23 and December 6 Path A was monitored, and on November 8, Path B was monitored. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

8. **Ambient Air Sampling (AAS) Results** (see location map in EXHIBIT 2.1).

AAS were collected on January 8 and 9, 2003. AAS TAC results are included as laboratory results (samples AAS-NW#1, AAS-SE#1, AAS-NW#2, and AAS-SE#2) in EXHIBIT 4. A Climatronics, Electronic Weather Station (EWS), used during AAS at the site, was equipped to continuously record wind speed and wind direction on a strip chart. The weather station results are available as RECORDS.

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9. Toxic Air Contaminant Results

As required by Section (f)(2)(B)(ii) of the Rule, fourth quarter 2002 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) EXHIBIT 1;
- SRBPS (Samples D and Q-40') EXHIBIT 2.3;
- ILSS (Samples A-4 and B-4) EXHIBIT 3.2; and
- AAS (AAS-NW#1, SE#1, NW#2, and SE#2) EXHIBIT 3.2.

10. Certification

This quarterly report and certification is based upon Methane Specialists' understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas, migration control and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the Fourth Quarter of 2002.

Sincerely,
Methane Specialists

STATE OF CALIFORNIA ☆ LICENSED PROFESSIONAL ENGINEER ☆ CHARLES N. McCORMICK ☆ C 32534 ☆ JUNE 30, 2005

Charles N. McCormick, P. E.

Distribution:

SCAQMD, Mr. Rich Tambara, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado

California Integrated Waste Management Board, Mr. Peter Janicke

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Enclosures: for Fourth Quarter 2002

EXHIBIT 1 - Control Device Laboratory Results

TSI TAC Laboratory Results: H_2S and TO-14A Analyses – January 9, 2003

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedance

Exhibit 2.2.1: SRBPS Monitoring Results – January 9, 2003

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results – January 9, 2003

Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses – January 9, 2003

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 3)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - December 26, 2002 and January 8, 2003

EXHIBIT 4 AAS TAC Laboratory Results: H_2S and TO-14A Analyses - January 8 and 9, 2003

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EXHIBIT 1

PENROSE LANDFILL - Fourth Quarter 2002

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results – January 9, 2003: Sample TSI

Hydrogen Sulfide and TO-14A Analyses

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Calscience Environmental Laboratories, Inc.

Folder W

COPY

RECEIVED 01-22-03

January 16, 2003

Robert McAllister
L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.:** 03-01-0341
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/9/03 and analyzed in accordance with the attached chain of custody and the facsimile dated 1/10/03.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

EXHIBIT 1: Sheet 2 of 8

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists	Date Sampled:	01/08-09/03
4050 Katella Avenue, Suite 209	Date Received:	01/09/03
Los Alamitos, CA 90720-3482	Date Analyzed:	01/09/03
	Work Order No.:	03-01-0341
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
A-4	ND	1
B-4	ND	1
D	ND	1
Q-40	ND	1
TSI	128	20
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	128	126	2	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 01/09/03
Work Order No: 03-01-0341
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q-40	03-01-0341-4	01/09/03	Air	N/A	01/12/03	030112L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.5	5		ppb (v/v)	Trichloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethene	ND	2.5	5		ppb (v/v)	1,2-Dibromoethane	ND	2.5	5		ppb (v/v)
Methylene Chloride	ND	10	5		ppb (v/v)	Tetrachloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethane	ND	2.5	5		ppb (v/v)	Chlorobenzene	180	2	5		ppb (v/v)
Chloroform	ND	2.5	5		ppb (v/v)	p/m-Xylene	87	5	5		ppb (v/v)
1,2-Dichloroethane	ND	2.5	5		ppb (v/v)	o-Xylene	32	2	5		ppb (v/v)
1,1,1-Trichloroethane	ND	2.5	5		ppb (v/v)	Benzyl Chloride	ND	5.0	5		ppb (v/v)
Benzene	120	2	5		ppb (v/v)	1,3-Dichlorobenzene	ND	2.5	5		ppb (v/v)
Carbon Tetrachloride	ND	2.5	5		ppb (v/v)	1,4-Dichlorobenzene	ND	2.5	5		ppb (v/v)
Toluene	79	2	5		ppb (v/v)	1,2-Dichlorobenzene	ND	2.5	5		ppb (v/v)

TSI	03-01-0341-5	01/09/03	Air	N/A	01/10/03	030110L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	200	60	120		ppb (v/v)	Trichloroethene	69	60	120		ppb (v/v)
1,1-Dichloroethene	ND	60	120		ppb (v/v)	1,2-Dibromoethane	ND	60	120		ppb (v/v)
Methylene Chloride	1100	240	120		ppb (v/v)	Tetrachloroethene	67	60	120		ppb (v/v)
1,1-Dichloroethane	ND	60	120		ppb (v/v)	Chlorobenzene	470	60	120		ppb (v/v)
Chloroform	ND	60	120		ppb (v/v)	p/m-Xylene	4800	120	120		ppb (v/v)
1,2-Dichloroethane	ND	60	120		ppb (v/v)	o-Xylene	2200	60	120		ppb (v/v)
1,1,1-Trichloroethane	ND	60	120		ppb (v/v)	Benzyl Chloride	ND	120	120		ppb (v/v)
Benzene	1100	60	120		ppb (v/v)	1,3-Dichlorobenzene	ND	60	120		ppb (v/v)
Carbon Tetrachloride	ND	60	120		ppb (v/v)	1,4-Dichlorobenzene	290	60	120		ppb (v/v)
Toluene	4400	60	120		ppb (v/v)	1,2-Dichlorobenzene	78	60	120		ppb (v/v)

Method Blank	095-01-021-1,875	N/A	Air	N/A	01/09/03	030109L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	01/09/03
Work Order No:	03-01-0341
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	095-01-021-1,876	N/A	Air	N/A	01/10/03	030110L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,879	N/A	Air	N/A	01/12/03	030112L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received: 01/09/03
Work Order No: 03-01-0341
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,875	Air	GC/MS V	N/A	01/09/03	030109L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	109	104	60-140	5	0-30	
1,2-Dichloroethane	115	110	60-140	5	0-30	
Benzene	97	90	60-140	8	0-30	
Carbon Tetrachloride	94	83	60-140	12	0-30	
1,2-Dichloropropane	88	82	60-140	7	0-30	
c-1,3-Dichloropropene	91	84	60-140	8	0-30	
1,1,2-Trichloroethane	90	83	60-140	8	0-30	
Toluene	106	98	60-140	8	0-30	
Trichloroethene	93	86	60-140	8	0-30	
1,2-Dibromoethane	101	93	60-140	8	0-30	
Tetrachloroethene	102	93	60-140	8	0-30	
Ethylbenzene	110	101	60-140	8	0-30	
p/m-Xylene	110	101	60-140	9	0-30	
Bromoform	105	96	60-140	9	0-30	
o-Xylene	110	101	60-140	8	0-30	
1,4-Dichlorobenzene	115	105	60-140	9	0-30	
1,2-Dichlorobenzene	118	108	60-140	9	0-30	

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 03-0 1 - 0 3 4 1

Cooler 0 of 0

SAMPLE RECEIPT FORM

CLIENT: LA By-Products DATE: 1/9/3

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ____ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ✓ Ambient temperature.
- ____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact): ____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace	✓		✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

Sample # B-4 is low on air.

EXHIBIT 1: Sheet 7 of 8

0341

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL E = see below Date: JANUARY 9, 2003

	1/8/03 12:47pm	1/8/03 12:21pm	1/9/03 8:48Am	1/9/03 9:24Am	1/9/03 9:59Am					
Bag (I.D.#)	A-4	B-4	D	Q-40'	TSI					
Condition Received in Lab*										

Analyses Requested: CORE GROUP - TO-14A + H_2S

Bags Prepared By: Robert McAllister Time: 1110
ROBERT McALLister Date: 1/9/03

Bags Taken Out By: [signature] Time: 1110

Bags Taken to Lab By: [signature] Time: 1345

Bags Received In Lab By: [signature] Time: 1345

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,
E = Less than ¼ full but contains some sample, N = No sample at all.

315:TABL 608

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000317

EXHIBIT 1: Sheet 8 of 8

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EXHIBIT 2

PENROSE LANDFILL - Fourth Quarter 2002

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedance

Exhibit 2.2.1: Monitoring Results – January 9, 2003

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results – January 9, 2003

Exhibit 2.3: SRBPS TAC Laboratory Results – January 9, 2003: Samples Q-40' and D
Hydrogen Sulfide and TO-14A Analyses

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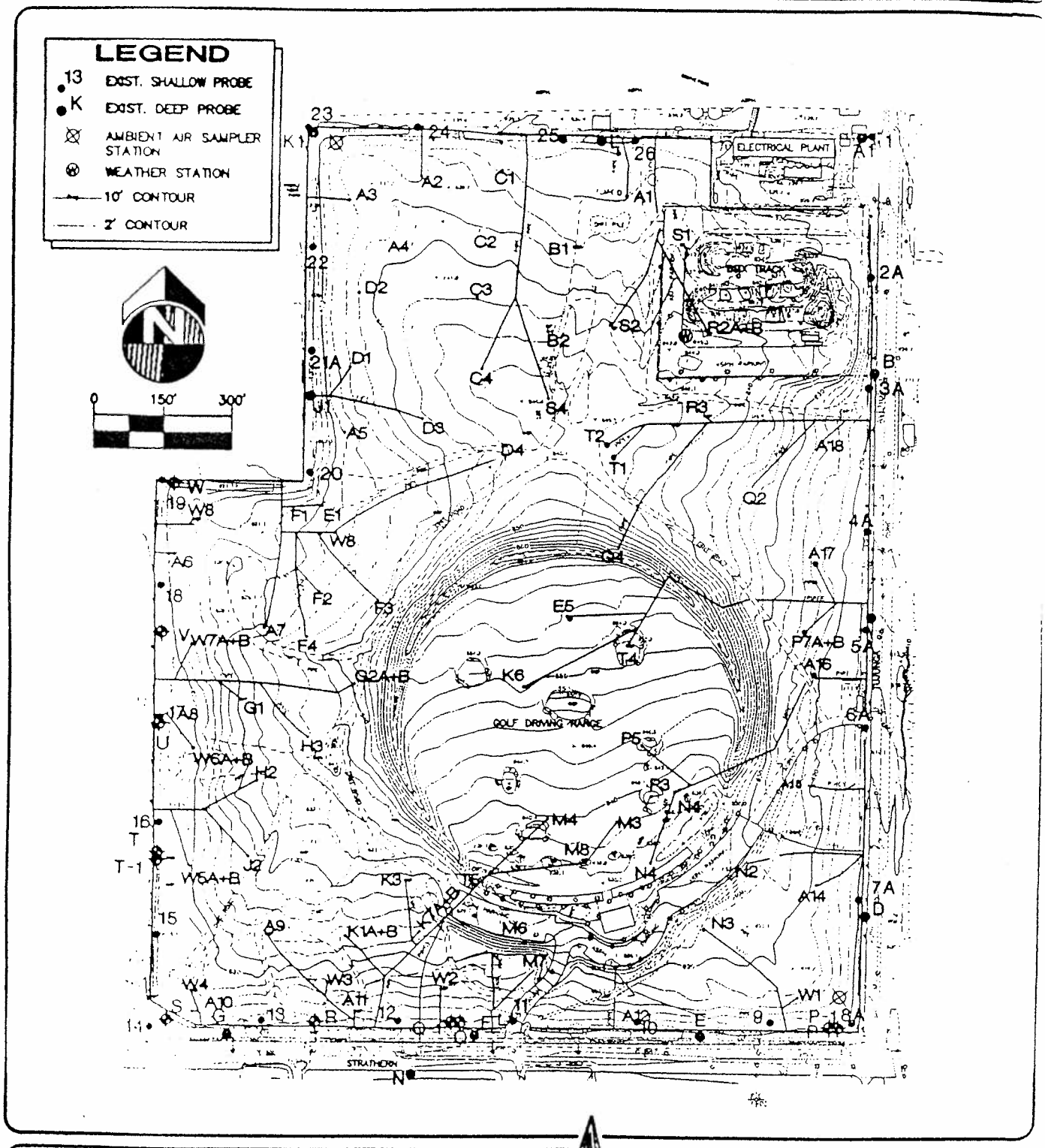
PETROSE LANDFILL
MONITORING PROBE LOCATIONS



METHANE SPECIALISTS
621 Via Alondra Suite 610 & 611
Camarillo CA. 93012
TEL: (818) 707-3036
(805) 652-0000
(805 987-5356
FAX: (805) 987-3968

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

Exhibit 2.1

SHEET ___ OF ___

PENROSE LANDFILL, SUN VALLEY - QUALITY CONTROL SHEET for INTEGRATED SURFACE SAMPLES (ISS)

- Parameters applicable to monitoring / sampling for Integrated Surface Samples.
- Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample
- All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

#5

OPERATION					BAG SAMPLES				OVA	COMMENTS
GRIDS TRAVERSED	DATE	Wind Speed	Time On	Time Off	I.D. #	Valve Open	Rotameter Reading	Pump (On/Off)	ppm	
AE-2	1/8/03	2.4	10:44.44	10:47.35	J1526		400cc/min		ND	
A-3		1.5	10:48.39	10:51.32						
B-3		ND	10:52.46	10:55.26						
C-3		2.1	10:56.55	10:59.34						
D-3		1.1	11:00.31	11:03.10						
M-1		ND	11:21.43	11:24.22						
N-1		.4	11:33.25	11:36.01						
O-1		ND	11:37.03	11:39.30						
P-1		1.8	11:40.17	11:43.11						
B-4		3.0	12:04.23	12:21.20					.2	
A-4	1/8/03	1.7	12:23.15	12:47.09					.2	

NOTES: 1/8/03 - Cool TEMP/ MISTY THICK CLOUDS

1/9/03 PPS D 8:48 AM - TOC 8.0%
PPS @ 40' 9:24 AM ND
TST 9:59 AM 41%

J1S2TABL 603

Exhibit 2.2.1: Sheet 1 of 2

CONFIDENTIAL

000330

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists	Date Sampled:	01/09/03
4050 Katella Avenue, Suite 209	Date Received:	01/09/03
Los Alamitos, CA 90720-3482	Date Analyzed:	01/10/03
	Work Order No.:	03-01-0341
Attn: Robert McAllister	Method:	ASTM D 1946
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in percent (%) by volume.

Sample Number	Methane Concentration	Reporting Limit
D	5.5	0.1
Method Blank	ND	0.1

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Exhibit 2.2.1: Sheet 2 of 2

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METHANE SPECIALISTS
621 Via Alondra Suite 610 TEL (805)552-0000 FAX (805)987-3968
8301 Topanga Avenue Suite — Penrose
8301 Topanga Avenue
Los Angeles, California 91352
Tel (323) 875-1095 Fax (818) 768-6039

SITE NAME: PENROSE LANDFILL

DATE 1-4-03

JOB No. J481

GAS CONCENTRATIONS

INITIALS QTF

TIME 1125-1400

INSTRUMENT RKI Eagle

PARAMETER CH4 reported % LEL as % Vol

REMARKS Checked RKI w/2.5% CH4 at ~1120/1/4/03; read 45% LEL. * read as 3% LEL on the RKI. Note this was the only detection during this monitoring event. At ~0930 [illegible]

PROBE #		
1	ND	
2 A	ND	
3 A	ND	
4 A	ND	
5 A	ND	
6 A	ND	
7 A	ND	
8 A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	ND	
21 A	ND	
22	ND	
23	ND	
24	ND	
25	ND	
26	ND	

PROBE #			
A-1		ND	
B		ND	
C	GREEN-21'	ND	
C	YELLOW-41'	ND	
C	ORANGE-61'	X	[illegible]
C	RED - 81'	ND	
D		0.15	[illegible]
E		ND	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	ND	
L	YELLOW-65'	ND	
L	ORANGE-85'	ND	
L	RED - 105'	ND	
N	GREEN-22'	ND	
N	YELLOW-45'	ND	
N	ORANGE-68'	ND	
N	RED - 90'	ND	
P	10'	ND	
P	40'	ND	
P	80'	ND	
P-1	120'	ND	
Q	10'	ND	
Q	40'	ND	
Q	75'	ND	
Q-1	120'	ND	
Q-1	158'	ND	

R	10'	ND
R	40'	ND
R	80'	ND
R	120'	ND
S	10'	ND
S	40'	ND
S	80'	ND
S	120'	ND
T	10'	ND
T	40'	ND
T	73'	ND
T-1	72'	ND
U	10'	ND
U	37'	ND
U	68'	ND
V	10'	ND
V	40'	ND
V	73'	ND
W	10'	ND
W	40'	ND
W	80'	ND
W	120'	ND
W	158'	ND

ANY PROBE ≥ 5% CALL (323) 875-1095

Exhibit 2.2.2

000322

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists	Date Sampled:	01/08-09/03
4050 Katella Avenue, Suite 209	Date Received:	01/09/03
Los Alamitos, CA 90720-3482	Date Analyzed:	01/09/03
	Work Order No.:	03-01-0341
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
A-4	ND	1
B-4	ND	1
D	ND	1
Q-40	ND	1
TSI	128	20
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	128	126	2	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	01/09/03
Work Order No:	03-01-0341
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
A-4	03-01-0341-1	01/08/03	Air	N/A	01/10/03	030109L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	34	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	11	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	5.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	45	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

B-4	03-01-0341-2	01/08/03	Air	N/A	01/10/03	030109L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	27	2	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	31	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	9.6	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	6.9	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	33	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

D	03-01-0341-3	01/09/03	Air	N/A	01/12/03	030112L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	23	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	22	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	8.2	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	1.8	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	4.2	0.5	1		ppb (v/v)
Toluene	20	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Exhibit 2.3: Sheet 2 of 3

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 01/09/03
Work Order No: 03-01-0341
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q-40	03-01-0341-4	01/09/03	Air	N/A	01/12/03	030112L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.5	5		ppb (v/v)	Trichloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethene	ND	2.5	5		ppb (v/v)	1,2-Dibromoethane	ND	2.5	5		ppb (v/v)
Methylene Chloride	ND	10	5		ppb (v/v)	Tetrachloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethane	ND	2.5	5		ppb (v/v)	Chlorobenzene	180	2	5		ppb (v/v)
Chloroform	ND	2.5	5		ppb (v/v)	p/m-Xylene	87	5	5		ppb (v/v)
1,2-Dichloroethane	ND	2.5	5		ppb (v/v)	o-Xylene	32	2	5		ppb (v/v)
1,1,1-Trichloroethane	ND	2.5	5		ppb (v/v)	Benzyl Chloride	ND	5.0	5		ppb (v/v)
Benzene	120	2	5		ppb (v/v)	1,3-Dichlorobenzene	ND	2.5	5		ppb (v/v)
Carbon Tetrachloride	ND	2.5	5		ppb (v/v)	1,4-Dichlorobenzene	ND	2.5	5		ppb (v/v)
Toluene	79	2	5		ppb (v/v)	1,2-Dichlorobenzene	ND	2.5	5		ppb (v/v)

TSI	03-01-0341-5	01/09/03	Air	N/A	01/10/03	030110L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	200	60	120		ppb (v/v)	Trichloroethene	69	60	120		ppb (v/v)
1,1-Dichloroethene	ND	60	120		ppb (v/v)	1,2-Dibromoethane	ND	60	120		ppb (v/v)
Methylene Chloride	1100	240	120		ppb (v/v)	Tetrachloroethene	67	60	120		ppb (v/v)
1,1-Dichloroethane	ND	60	120		ppb (v/v)	Chlorobenzene	470	60	120		ppb (v/v)
Chloroform	ND	60	120		ppb (v/v)	p/m-Xylene	4800	120	120		ppb (v/v)
1,2-Dichloroethane	ND	60	120		ppb (v/v)	o-Xylene	2200	60	120		ppb (v/v)
1,1,1-Trichloroethane	ND	60	120		ppb (v/v)	Benzyl Chloride	ND	120	120		ppb (v/v)
Benzene	1100	60	120		ppb (v/v)	1,3-Dichlorobenzene	ND	60	120		ppb (v/v)
Carbon Tetrachloride	ND	60	120		ppb (v/v)	1,4-Dichlorobenzene	290	60	120		ppb (v/v)
Toluene	4400	60	120		ppb (v/v)	1,2-Dichlorobenzene	78	60	120		ppb (v/v)

Method Blank	095-01-021-1,875	N/A	Air	N/A	01/09/03	030109L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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EXHIBIT 3

PENROSE LANDFILL - Fourth Quarter 2002

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 3)

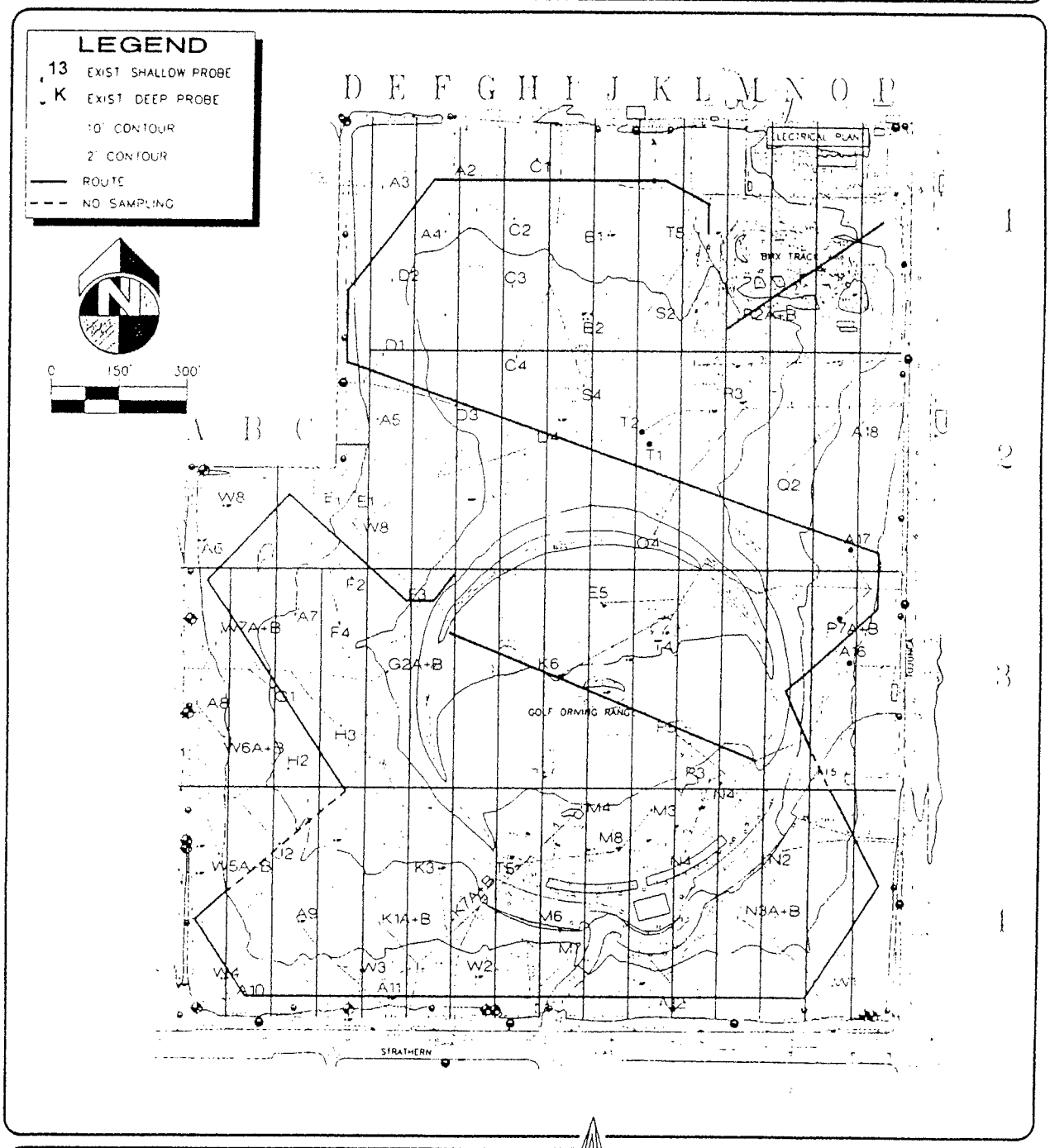
Exhibit 3.2: ILSS TAC Laboratory Results – January 8, 2003: Samples A-4 and B-4

Hydrogen Sulfide and TO-14A Analyses

CONFIDENTIAL

PENROSE LANDFILL

INTEGRATED SAMPLING ROUTE 3



SEPICH ASSOCIATES, Inc.

Los Angeles By-Products Co.
Incorporated 1925
444 Irving Drive Suite #101 Burbank CA 91504
Tel: (818) 845-4489 Fax (818) 845-1011

Exhibit 3.1

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists	Date Sampled:	01/08-09/03
4050 Katella Avenue, Suite 209	Date Received:	01/09/03
Los Alamitos, CA 90720-3482	Date Analyzed:	01/09/03
	Work Order No.:	03-01-0341
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
A-4	ND	1
B-4	ND	1
D	ND	1
Q-40	ND	1
TSI	128	20
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	128	126	2	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Exhibit 3.2: Sheet 1 of 2

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 01/09/03
Work Order No: 03-01-0341
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
A-4	03-01-0341-1	01/08/03	Air	N/A	01/10/03	030109L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	34	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	11	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	5.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	45	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-4	03-01-0341-2	01/08/03	Air	N/A	01/10/03	030109L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	27	2	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	31	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	9.6	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	6.9	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	33	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
D	03-01-0341-3	01/09/03	Air	N/A	01/12/03	030112L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	23	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	22	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	8.2	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	1.8	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	4.2	0.5	1		ppb (v/v)
Toluene	20	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Exhibit 3.2: Sheet 2 of 2

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EXHIBIT 4

PENROSE LANDFILL - Fourth Quarter 2002

Ambient Air Sampling (AAS) Documentation

EXHIBIT 4 AAS TAC Laboratory Results - January 8 and 9, 2003: Samples AAS-NW#1, AAS-SE#1, AAS-NW#2, And AAS-SE#2

Hydrogen Sulfide and TO-14A Analyses

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Calscience Environmental Laboratories, Inc.

COPY

RECEIVED 01-22-03

January 16, 2003

Robert McAllister
L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.:** **03-01-0340**
Client Reference: **Penrose Landfill**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/9/03 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX (714) 894-7501

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ANALYTICAL REPORT

L.A. By Products/Methane Specialists	Date Sampled:	01/08-09/03
4050 Katella Avenue, Suite 209	Date Received:	01/09/03
Los Alamitos, CA 90720-3482	Date Analyzed:	01/09/03
	Work Order No.:	03-01-0340
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
AAS-NW#1	ND	1
AAS-SE#1	ND	1
AAS-NW#2	ND	1
AAS-SE#2	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
03-01-0341-5 (Duplicate)	128	126	2	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 01/09/03
Work Order No: 03-01-0340
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS-NW#1	03-01-0340-1	01/08/03	Air	N/A	01/09/03	030109L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	3.7	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.97	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	0.57	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.2	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS-SE#1	03-01-0340-2	01/08/03	Air	N/A	01/09/03	030109L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.6	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.65	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	0.89	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	4.9	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS-NW#2	03-01-0340-3	01/09/03	Air	N/A	01/09/03	030109L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	3.1	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.85	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	1.1	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	4.7	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 01/09/03
Work Order No: 03-01-0340
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS-SE#2	03-01-0340-4	01/09/03	Air	N/A	01/09/03	030109L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.4	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.68	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	0.96	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	3.8	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,875	N/A	Air	N/A	01/09/03	030109L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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EXHIBIT 4: Sheet 5 of 9

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received: 01/09/03
Work Order No: 03-01-0340
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,875	Air	GC/MS V	N/A	01/09/03	030109L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	109	104	60-140	5	0-30	
1,2-Dichloroethane	115	110	60-140	5	0-30	
Benzene	97	90	60-140	8	0-30	
Carbon Tetrachloride	94	83	60-140	12	0-30	
1,2-Dichloropropane	88	82	60-140	7	0-30	
c-1,3-Dichloropropene	91	84	60-140	8	0-30	
1,1,2-Trichloroethane	90	83	60-140	8	0-30	
Toluene	106	98	60-140	8	0-30	
Trichloroethene	93	86	60-140	8	0-30	
1,2-Dibromoethane	101	93	60-140	8	0-30	
Tetrachloroethene	102	93	60-140	8	0-30	
Ethylbenzene	110	101	60-140	8	0-30	
p/m-Xylene	110	101	60-140	9	0-30	
Bromoform	105	96	60-140	9	0-30	
o-Xylene	110	101	60-140	8	0-30	
1,4-Dichlorobenzene	115	105	60-140	9	0-30	
1,2-Dichlorobenzene	118	108	60-140	9	0-30	

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GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 03-01-0340

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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WORK ORDER #: 03-0 1 - 0 3 4 0

Cooler 0 of 0

SAMPLE RECEIPT FORM

CLIENT: LA By Products DATE: 1/9/3

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ____ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ✓ Ambient temperature.
- ____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact): ____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

EXHIBIT 4: Sheet 8 of 9

0340

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 01-09-03

	2114 1-8-03	2135 1-8-03	0915 1-9-03	0925 1-9-03						
Bag (I.D.#)	AAS-NW#1	AAS SE#1	AAS NW#2	AAS SE#2						
Condition Received in Lab*										

Analyses Requested: To-14A + H_2S = Core Group

Bags Prepared By: Alex T. Fewell Time: 1110

Date: 1-9-03

Bags Taken Out By: Time: 1110

Bags Taken to Lab By: Time: 1345

Bags Received In Lab By: Time: 1245

* F = ¾ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

EXHIBIT 4: Sheet 9 of 9

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METHANE SPECIALISTS
621 Via Alondra Suite 611
Camarillo CA, 93012
www.methanespecialists.com

TEL (805) 987-5356
FAX(805) 987-3968

November 15, 2002
J152-6

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Third Quarter, 2002
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the thirty sixth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period July through September 2002. This is the tenth quarterly report submitted under the 1999 revised version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill.

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the third quarter of 2002. One exceedance was detected from *subsurface refuse boundary probes* (SRBP).

1. **Reporting Requirements**: South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

   - (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

   - (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

   The 2002 third quarter activities included the following monitoring and sampling requirements and events:

   - Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on July 25, August 27, and 28, September 18 and 19, 2002; for TOC (non-compliance monitoring performed by Methane Specialists for the City of Los Angeles, Environmental

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Affairs Department (LEA) requirements) on July 10, August 14, and September 11, 2002. The LEA Inspector monitoring of selected probes were reported for July 31, August 27, and September 23, 2002 , during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes Q at 40' and V at 40' were sampled on September 25, 2002);

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 2 traversed, sampled and monitored for TOC on September 24, and 25; Grids J-1 and I-1 were sampled for TAC laboratory analyses on September 25, 2002);

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on July 25, August 28, and September 11, 2002. On August 28 and September 11 Path B was monitored, and on July 25 Path A was monitored; and;

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled September 25, 2002).

All monitoring and sampling activities, except for agency inspections and the bi-monthly (non-compliance) probe monitoring, were performed by Los Angeles By-Products (LABP) personnel.

2. **Record Keeping Requirements**: Section (f)(1) of the Rule describes the record keeping requirements.

3. **Control System - 8309 Tujunga Avenue Corp. (8309 TAC) - Penrose Power Plant**: Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at 8309 TAC's (formerly Ogden Power Pacific, Inc.) Plant at 8301 Tujunga Avenue, Sun Valley.

   Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

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4. **Compliance Probe Monitoring Results**: Rule 1150.1 compliance probe monitoring (SRBPM) was performed on July 25. August 27 and 28. and September 18 and 19. 2002. Results: There were no exceedances detected in compliance probes during these third quarter 2002 monitoring events. One exceedance was detected in compliance probes during other monitoring events.

   Exceedance 1): 7-10-02: 8% of volume at Probe D (see EXHIBIT 2.2.1).

   Mitigation Measures: 7-10-02: according to the Rule. the first mitigation measure is to make extraction well adjustments (Well W2 flow rate was increased - documentation is presented in EXHIBIT 2.2.2).

   Follow-up Results: 7-11-02: Follow-up monitoring results on July 11 at Probe D are presented in EXHIBIT 2.2.2 ("Probes D was clear").

5. **Compliance Probe Sampling Results**: Two probe TAC samples were collected on September 25, 2002 from Probes Q at 40' and V at 40'. The field TOC were non-detect for both samples. The lab TAC results (sample I.D.#s Q-40' and V-40') are included in EXHIBIT 2.3.

6. **Integrated Landfill Surface Sampling (ILSS) Results**: (see traverse map in EXHIBIT 3.1).

   Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). All 59 samples registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results (samples J-1 from grid J-1 and I-1 from grid I-1) in EXHIBIT 3.2.

   The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. **Instantaneous Landfill Surface Monitoring (ILSM) Results**: Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On August 28 and September 18 Path B was monitored. and on July 25 Path A was monitored. All results registered non-detect for all the traverses. therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

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8. **Toxic Air Contaminant Results**: As required by Section (f)(2)(B)(ii) of the Rule, third quarter 2002 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) — EXHIBIT 1;
- SRBPS (Samples Q-40' and V-40') — EXHIBIT 2.3; and
- ILSS (Samples J-1 and I-1) — EXHIBIT 3.2.

9. **Certification**: This quarterly report and certification is based upon Methane Specialists' understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas migration control and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the Third Quarter of 2002.

Sincerely,
Methane Specialists

LICENSED PROFESSIONAL ENGINEER
CHARLES N. McCORMICK
C 32664
JUNE 30, 2005
STATE OF CALIFORNIA

Charles N. McCormick, P. E.

Distribution:

SCAQMD, Mr. Rich Tambara, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado

California Integrated Waste Management Board, Mr. Peter Janicke

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Enclosures: for Third Quarter 2002

EXHIBIT 1 - Control Device Laboratory Results

TSI TAC Laboratory Results: H_2S and TO-14A Analyses - September 25, 2002

EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedance

Exhibit 2.2.1: Monitoring Results - July 10, 2002

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results - July 10, and 11, 2002

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Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses - September 25, 2002

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 2)

Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - September 25, 2002

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EXHIBIT 1

PENROSE LANDFILL - Third Quarter 2002

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results - September 25, 2002: Sample TSI

Hydrogen Sulfide and TO-14A Analyses

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Calscience Environmental Laboratories, Inc.

COPY

October 02, 2002

Robert McAllister
L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.: 02-09-1199**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/25/02 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

EXHIBIT 1: Sheet 2 of 8

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482	Date Sampled: Date Received: Date Analyzed:	09/25/02 09/25/02 09/25/02
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	02-09-1199 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
J-1	ND	1
I-1	ND	1
V-40'	ND	1
Q-40'	ND	1
TSI	106	5
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	106	109	3	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 09/25/02
Work Order No: 02-09-1199
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q-40'	02-09-1199-4	09/25/02	Air	N/A	09/26/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	3.7	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	3.7	0.5	1		ppb (v/v)	p/m-Xylene	24	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	8.8	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	1.8	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	25	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

TSI	02-09-1199-5	09/25/02	Air	N/A	09/26/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	260	60	120		ppb (v/v)	Trichloroethene	89	60	120		ppb (v/v)
1,1-Dichloroethene	ND	60	120		ppb (v/v)	1,2-Dibromoethane	ND	60	120		ppb (v/v)
Methylene Chloride	350	240	120		ppb (v/v)	Tetrachloroethene	79	60	120		ppb (v/v)
1,1-Dichloroethane	ND	60	120		ppb (v/v)	Chlorobenzene	710	60	120		ppb (v/v)
Chloroform	ND	60	120		ppb (v/v)	p/m-Xylene	8000	120	120		ppb (v/v)
1,2-Dichloroethane	ND	60	120		ppb (v/v)	o-Xylene	3400	60	120		ppb (v/v)
1,1,1-Trichloroethane	ND	60	120		ppb (v/v)	Benzyl Chloride	ND	120	120		ppb (v/v)
Benzene	1500	60	120		ppb (v/v)	1,3-Dichlorobenzene	ND	60	120		ppb (v/v)
Carbon Tetrachloride	ND	60	120		ppb (v/v)	1,4-Dichlorobenzene	540	60	120		ppb (v/v)
Toluene	7600	240	480	D	ppb (v/v)	1,2-Dichlorobenzene	140	60	120		ppb (v/v)

Method Blank	095-01-021-1,776	N/A	Air	N/A	09/25/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received: 09/25/02
Work Order No: 02-09-1199
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,776	Air	GC/MS V	N/A	09/25/02	020925L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	71	72	60-140	2	0-30	
1,2-Dichloroethane	71	79	60-140	11	0-30	
Benzene	72	86	60-140	18	0-30	
Carbon Tetrachloride	70	85	60-140	19	0-30	
1,2-Dichloropropane	78	85	60-140	9	0-30	
c-1,3-Dichloropropene	72	81	60-140	12	0-30	
1,1,2-Trichloroethane	84	80	60-140	5	0-30	
Toluene	73	93	60-140	25	0-30	
Trichloroethene	76	80	60-140	5	0-30	
1,2-Dibromoethane	73	84	60-140	14	0-30	
Tetrachloroethene	78	88	60-140	13	0-30	
Ethylbenzene	74	85	60-140	13	0-30	
p/m-Xylene	76	84	60-140	11	0-30	
Bromoform	90	80	60-140	11	0-30	
o-Xylene	79	81	60-140	2	0-30	
1,4-Dichlorobenzene	93	83	60-140	12	0-30	
1,2-Dichlorobenzene	96	85	60-140	13	0-30	

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 02-0 9 - 1 1 9 9

Cooler 0 of 0

SAMPLE RECEIPT FORM

CLIENT: H By Products DATE: 9/25/02

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
✓ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

EXHIBIT 1: Sheet 6 of 8

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GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 02-09-1199

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
ND	Not detected at indicated reporting limit.

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1199

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: SEPTEMBER 25, 2002

Bag (I.D.#)	J-1	I-1	V-40'	Q-40'	TSI					
Condition Received in Lab*										

Analyses Requested: SAME AS LAST QUARTER - CORE GROUP, H_2S, ~~[illegible]~~

Bags Prepared By: [signature] Time: 12:01 pm

Date: 9/25/02

Bags Taken Out By: [signature] Time: 9/25/02 12:15

Bags Taken to Lab By: [signature] Time: 9/25/02 ~~1:20~~ 1420

Bags Received In Lab By: [signature] Time: 9/25/02 1420

* P = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

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EXHIBIT 1: Sheet 8 of 8

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EXHIBIT 2

PENROSE LANDFILL - Third Quarter 2002

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedance

Exhibit 2.2.1: Monitoring Results - July 10, 2002

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results - July 10 and 11, 2002

Exhibit 2.3: SRBPS TAC Laboratory Results - September 25, 2002: Samples V-40' and Q-40'

Hydrogen Sulfide and TO-14A Analyses

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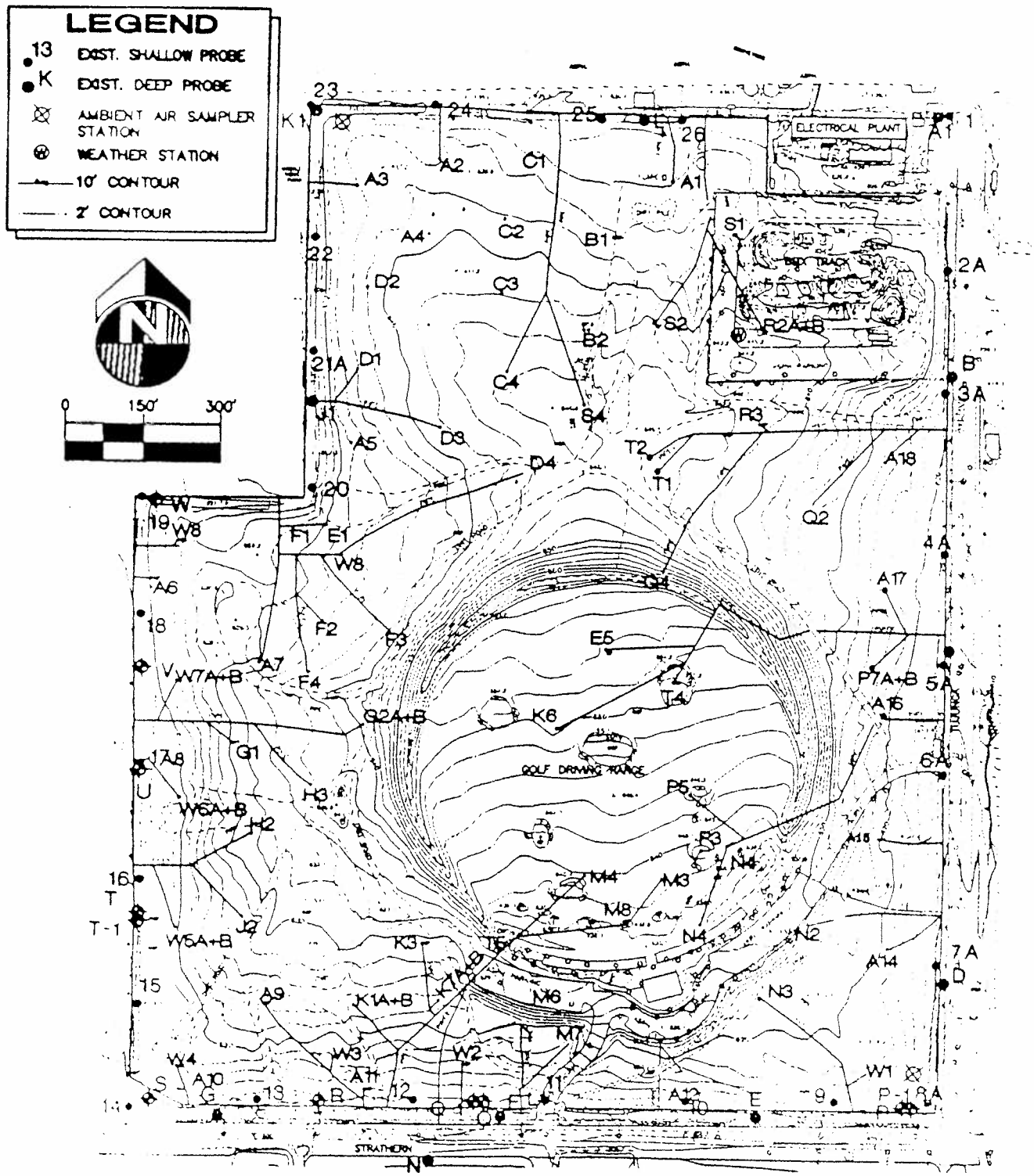
PT. VROSE LA DDFILL
MONITORING PROBE LOCATIONS



METHANE SPECIALISTS
627 Vista Alondra Suite 610 & 611
Camarillo CA. 93012
TEL: (818) 707-3036
(805) 652-0000
(805 987-5356
FAX: (805) 987-3968

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

Exhibit 2.1

SHEET ___ OF ___

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8309 Tujunga Avenue Corp. – Penrose
8301 Tunjunga Avenue
Sun Valley, California 91352
Tel. (323) 875-1095 Fax: (818) 768-6039

JOB NAME: PENROSE LANDFILL

DATE: 07/10/02

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: SKK

TIME: 8:30 AM

INSTRUMENT: RKI Eagle

PARAMETER: % vol.

REMARKS: The RKI Eagle registers 0 – 99% LEL (lower explosive limit (of CH4 = 5% of vol.)), then converts to % vol (at 5% vol.) thus Probe L at 85' read 3% LEL & at 105' read 11% LEL. P = plugged, D = destroyed, (A) Vault cover missing, (V) = vacuum

PROBE #		% Vol	
1		ND	
2 A		ND	
3 A		ND	
4 A		ND	
5 A		ND	
6 A		ND	
7 A		ND	
8 A		ND	
9		ND	
10		ND	
11		ND	
12		ND	
13		ND	
14		ND	
15		ND	
16		ND	
17		ND	
18		ND	
19		ND	
20		ND	
21 A		ND	
22		ND	
23		ND	
24		ND	
25		ND	
26		ND	

PROBE #		% Vol.	Remarks
A-1		ND	
B		ND	
C	GREEN-21'	P	
	YELLOW-41'	P	
	ORANGE-61'	D	missing
	RED - 81'	ND	
D		8	
E		ND	
F		ND (A)	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	ND	
	YELLOW-65'	ND	
	ORANGE-85'	0.15	read as 3% LEL
	RED - 105'	0.55	read as 11% LEL
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	ND	
	80'	ND	
P-1	120'	ND (V)	
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

		% Vol.
R	10'	ND
	40'	ND
	80'	ND
	120'	ND
S	10'	ND
	40'	ND
	80'	ND
	120'	ND
T	10'	ND
	40'	ND
	73'	ND (V)
T-1	72'	ND
U	10'	ND
	37'	ND
	68'	ND
V	10'	ND
	40'	ND
	73'	ND
W	10'	ND
	40'	ND
	80'	ND
	120'	ND
	158'	ND

ANY PROBE ≥ 5% CALL (323) 875-1095

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

Exhibit 2.2.1

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8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

Nov. 14, 02

Sepich Associates
Methane Specialists
621 Via Alondra Ste 610-1
Camarillo, Ca. 93012

Re: Probe reads on "D", July 10, 02

Mr. Alex Fentch:

Wells N3A+B were adjusted in vacuum to clear up probe "D" at 0930 AM, July 11, 02.
Took probe "D" reads at 1330 the same day. It was clear. Keep monitoring the following days. No reads were detected.

Victor LAM
Field Foreman

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE: 7/25/02

PROBE #	DESIGNATION DEPTH	Time on	Time off	VOC/CH_4 (% VOLUME)	REMARKS PAGE 2
A-1		1:28.34	1:29.20	ND	
B		1:36.43	1:37.32		
C	GREEN-21'	1:43.16.	1:44.37		
	YELLOW-41'	1:44.54	1:45.27		
	~~ORANGE-61'~~				
	RED - 81'	1:45.46	1:46.16	ND	3 Pumps.
D		1:48.29	1:49.12		
E		2:00.11	2:01.03		
F		2:04.30	2:05.10		
G		2:07.05	2:08.03		
J-1		12:02.31	12:03.29		
K-1		12:11.03	12:11.41		
L	GREEN-45'	12:22.28	12:23.19		
	YELLOW-65'	12:19.33	12:21.07		
	ORANGE-85'	12:23.37	12:24.34		
	RED - 105'	12:21.26	12:22.08		
N	GREEN-22'	2:12.01	2:12.38		
	YELLOW-45'	2:11.07	2:11.45		
	ORANGE-68'	2:12.50	2:13.35		
	RED - 90'	2:10.02	2:10.48		
P	10'	10:41.48	10:42.33		
	40'	10:40.43	10:41.35		
	80'	10:39.42	10:40.29		
P-1	120'	10:43.06	10:44.00		
Q	10'	10:53.41	10:54.34		
	40'	10:54.52	10:55.39		
	75'	10:55.54	10:56.47		
Q-1	120'	10:57.02	10:57.46		
	158'	10:57.57	10:58.41		

SEPICH ASSOCIATES/METHANE SPECIALISTS, 680 WALNUT ST., MOORPARK, CA 93021 TEL (818) 707-3036, FAX (818) 707-3012

Exhibit 2.2.3

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482	Date Sampled: Date Received: Date Analyzed:	09/25/02 09/25/02 09/25/02
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	02-09-1199 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
J-1	ND	1
I-1	ND	1
V-40'	ND	1
Q-40'	ND	1
TSI	106	5
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	106	109	3	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 09/25/02
Work Order No: 02-09-1199
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
J-1	02-09-1199-1	09/25/02	Air	N/A	09/25/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.55	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	37	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	16	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	3.8	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	37	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
I-1	02-09-1199-2	09/25/02	Air	N/A	09/26/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.66	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	34	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	13	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	4.1	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	38	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
V-40'	02-09-1199-3	09/25/02	Air	N/A	09/26/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.80	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	1.3	0.5	1		ppb (v/v)	p/m-Xylene	51	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	20	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	4.4	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	56	2	4	D	ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	09/25/02
Work Order No:	02-09-1199
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q-40'	02-09-1199-4	09/25/02	Air	N/A	09/26/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	3.7	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	3.7	0.5	1		ppb (v/v)	p/m-Xylene	24	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	8.8	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	1.8	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	25	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

TSI	02-09-1199-5	09/25/02	Air	N/A	09/26/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	260	60	120		ppb (v/v)	Trichloroethene	89	60	120		ppb (v/v)
1,1-Dichloroethene	ND	60	120		ppb (v/v)	1,2-Dibromoethane	ND	60	120		ppb (v/v)
Methylene Chloride	350	240	120		ppb (v/v)	Tetrachloroethene	79	60	120		ppb (v/v)
1,1-Dichloroethane	ND	60	120		ppb (v/v)	Chlorobenzene	710	60	120		ppb (v/v)
Chloroform	ND	60	120		ppb (v/v)	p/m-Xylene	8000	120	120		ppb (v/v)
1,2-Dichloroethane	ND	60	120		ppb (v/v)	o-Xylene	3400	60	120		ppb (v/v)
1,1,1-Trichloroethane	ND	60	120		ppb (v/v)	Benzyl Chloride	ND	120	120		ppb (v/v)
Benzene	1500	60	120		ppb (v/v)	1,3-Dichlorobenzene	ND	60	120		ppb (v/v)
Carbon Tetrachloride	ND	60	120		ppb (v/v)	1,4-Dichlorobenzene	540	60	120		ppb (v/v)
Toluene	7600	240	480	D	ppb (v/v)	1,2-Dichlorobenzene	140	60	120		ppb (v/v)

Method Blank	095-01-021-1,776	N/A	Air	N/A	09/25/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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EXHIBIT 3

PENROSE LANDFILL - Third Quarter 2002

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 2)

Exhibit 3.2: ILSS TAC Laboratory Results - September 25, 2002: Samples J-1 and I-1 Hydrogen Sulfide and TO-14A Analyses

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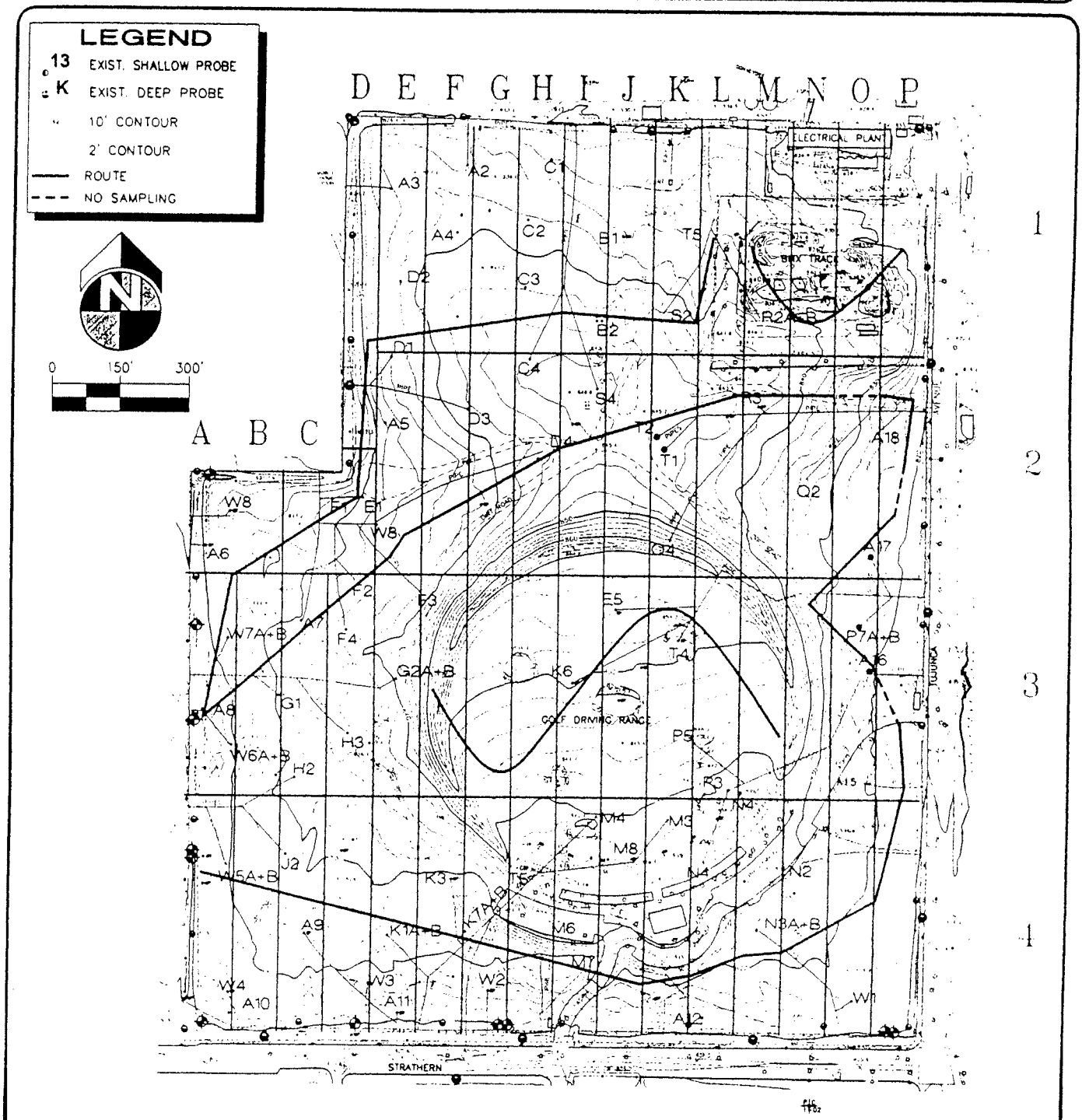
PENROSE LANDFILL
INTEGRATED SAMPLING ROUTE 2



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CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE MGT
GAS CONTROL
SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
444 Irving Drive Suite #101 Burbank CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

SHEET ___ OF ___

Exhibit 3.1

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists	Date Sampled:	09/25/02
4050 Katella Avenue, Suite 209	Date Received:	09/25/02
Los Alamitos, CA 90720-3482	Date Analyzed:	09/25/02
	Work Order No.:	02-09-1199
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
J-1	ND	1
I-1	ND	1
V-40'	ND	1
Q-40'	ND	1
TSI	106	5
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	106	109	3	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Exhibit 3.2: Sheet 1 of 2

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	09/25/02
Work Order No:	02-09-1199
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
J-1	02-09-1199-1	09/25/02	Air	N/A	09/25/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.55	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	37	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	16	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	3.8	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	37	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

I-1	02-09-1199-2	09/25/02	Air	N/A	09/26/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.66	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	34	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	13	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	4.1	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	38	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

V-40'	02-09-1199-3	09/25/02	Air	N/A	09/26/02	020925L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.80	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	1.3	0.5	1		ppb (v/v)	p/m-Xylene	51	1	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	20	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	1.0	1		ppb (v/v)
Benzene	4.4	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	56	2	4	D	ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Exhibit 3.2: Sheet 2 of 2

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METHANE SPECIALISTS
621 Via Alondra Suite 610 & 611
Camarillo CA, 93012

TEL (818) 707-3036
(805) 552-0000
FAX(805) 987-3968

August 15, 2002
J152-6

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L.A. BY-PROD. OP.

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Second Quarter, 2002
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the thirty fifth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period April through June 2002. This is the ninth quarterly report submitted under the 1999 revised version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill.

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the second quarter of 2002. Two exceedances were detected from *subsurface refuse boundary probes* (SRBP).

1. **Reporting Requirements**: South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

   - (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).

   - (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

   The 2002 second quarter activities included the following monitoring and sampling requirements and events:

   - Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on April 26 and 30, May 28, 30,

and 31, and June 25; for TOC (non-compliance monitoring performed by Methane Specialists for the City of Los Angeles, Environmental Affairs Department (LEA) requirements) on April 12, May 13, and June 12. The LEA Inspector monitoring of selected probes were reported for June 19 only, during this quarter.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes Q at 10' and V at 73' were sampled on June 26, 2002);

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 1 traversed, sampled and monitored for TOC on June 25, and 26; Grids M-2 and P-2 were sampled for TAC laboratory analyses on June 26, 2002);

- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on April 30 (attempt aborted due to high winds), May 3, May 31, and June 27. On May 3 and June 27 Path B was monitored, and on May 31 Path A was monitored; and

- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (sampled June 26, 2002).

All monitoring and sampling activities, except for agency inspections and the bi-monthly (non-compliance) probe monitoring, were performed by Los Angeles By-Products (LABP) personnel.

2. **Record Keeping Requirements**: Section (f)(1) of the Rule describes the record keeping requirements.

3. **Control System - 8309 Tujunga Avenue Corp. (8309 TAC) - Penrose Power Plant**: Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at 8309 TAC's (formerly Ogden Power Pacific, Inc.) Plant at 8301 Tujunga Avenue, Sun Valley.

   Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

4. **Compliance Probe Monitoring Results**: Rule 1150.1 compliance probe monitoring (SRBPM) was performed on April 26 and 30, May 28, 30, and 31, and June 25, 2002. Results: There were two exceedances detected in compliance probes during these second quarter 2002 monitoring events. No exceedances were detected in compliance probes during other monitoring events.

   Exceedance 1): 4-26-02: 6% of volume at Probe Q @ 10' (see EXHIBIT 2.2.1).

   Mitigation Measures: 4-26-02: according to the Rule, the first mitigation measure is to make extraction well adjustments (Well W2 flow rate was increased - documentation is presented in EXHIBIT 2.2.2).

   Exceedance 2): 4-26-02: 5% of volume at Probe V @ 73' (results are presented in EXHIBIT 2.2.3).

   Mitigation Measures: 4-26-02: according to the Rule, the first mitigation measure is to make extraction well adjustments (Well W7A flow rate was increased - documentation is presented in EXHIBIT 2.2.2).

   Follow-up Results: 4-29-02: Follow-up monitoring results on April 29 at Probes Q @ 10' and V @ 73' are presented in EXHIBIT 2.2.2 ("probes "Q" and "V" were clear").

5. **Compliance Probe Sampling Results**: Two probe TAC samples were collected on June 26, 2002 from Probes Q at 10' and V at 73'. The field TOC were non-detect for both samples. The lab TAC results (sample I.D.#s PPS-Q-10' and V-73') are included in EXHIBIT 2.3.

6. **Integrated Landfill Surface Sampling (ILSS) Results**: (see traverse map in EXHIBIT 3.1). Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). All 59 samples registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results (samples M-2 from grid M-2 and P-2 from grid P-2) in EXHIBIT 3.2.

   The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

7. **Instantaneous Landfill Surface Monitoring (ILSM) Results**: Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. On May 3 and June 27 Path B was monitored, and on May 31 Path A was monitored. All results registered non-detect for all the traverses, therefore no values were

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entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

8. **Toxic Air Contaminant Results**: As required by Section (f)(2)(B)(ii) of the Rule, second quarter 2002 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) — EXHIBIT 1;
- SRBPS (Samples Q-10' and V-73') — EXHIBIT 2.3; and
- ILSS (Samples M-2 and P-2) — EXHIBIT 3.2.

9. **Certification**: This quarterly report and certification is based upon Methane Specialists' understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California and that I am knowledgeable in the field of landfill gas migration control and monitoring. I assume professional responsibility for the validity and accuracy of our conclusions, based on the data provided, and reported to have been performed for the facilities located at Penrose Landfill for the Second Quarter of 2002.

Sincerely,
Methane Specialists

LICENSED PROFESSIONAL ENGINEER CHARLES N. McCORMICK C 32534 JUNE 30, 2005 STATE OF CALIFORNIA

Charles N. McCormick, P. E.

Distribution:

SCAQMD, Senior Engineering Manager, Toxics and Waste Management Branch
Los Angeles By-Products Company, Mr. Mike McAllister
City of Los Angeles, Local Enforcement Agency, Mr. Michael Mercado
California Integrated Waste Management Board, Mr. Peter Janicke

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Enclosures: for Second Quarter 2002

EXHIBIT 1 - Control Device Laboratory Results
TSI TAC Laboratory Results: H_2S and TO-14A Analyses - June 26, 2002
EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation
Exhibit 2.1: Probe Location Map
Exhibit 2.2: SRBPM Exceedances
Exhibit 2.2.1: Monitoring Results - April 26, 2002
Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results - April 26 and 29, 2002
Exhibit 2.2.3: Monitoring Results - April 26, 2002
Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses - June 26, 2002
EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation
Exhibit 3.1: ILSS Traverse Map (Route 1)
Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - June 26, 2002

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EXHIBIT 1

PENROSE LANDFILL - Second Quarter 2002

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results - June 26, 2002

Hydrogen Sulfide and TO-14A Analyses

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Calscience Environmental Laboratories, Inc.

July 9, 2002

Robert McAllister
L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Subject: **Calscience Work Order No.:** 02-06-1058
Client Reference: **Penrose Landfill**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/26/02 and analyzed in accordance with the attached chain-of-custody and the facsimile message dated 7/9/02.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

EXHIBIT 1: Sheet 2 of 8

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists	Date Sampled:	06/26/02
4050 Katella Avenue, Suite 209	Date Received:	06/26/02
Los Alamitos, CA 90720-3482	Date Analyzed:	06/26/02
	Work Order No.:	02-06-1058
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
M-2	ND	1
P-2	ND	1
Q-10'	ND	1
TSI	112	5
V-73'	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
V-73 (Duplicate)	112	118	5	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	06/26/02
Work Order No:	02-06-1058
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
M-2	02-06-1058-1	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.4	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.98	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	1.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.8	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-2	02-06-1058-2	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.85	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.94	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	4.7	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q-10'	02-06-1058-3	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.59	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	0.65	0.50	1		ppb (v/v)	p/m-Xylene	2.1	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.91	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	0.74	0.50	1		ppb (v/v)
Toluene	3.5	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/26/02
Work Order No: 02-06-1058
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	02-06-1058-4	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	310	50	100		ppb (v/v)	Trichloroethene	84	50	100		ppb (v/v)
1,1-Dichloroethene	ND	50	100		ppb (v/v)	1,2-Dibromoethane	ND	50	100		ppb (v/v)
Methylene Chloride	ND	200	100		ppb (v/v)	Tetrachloroethene	80	50	100		ppb (v/v)
1,1-Dichloroethane	ND	50	100		ppb (v/v)	Chlorobenzene	800	50	100		ppb (v/v)
Chloroform	ND	50	100		ppb (v/v)	p/m-Xylene	7100	100	100		ppb (v/v)
1,2-Dichloroethane	ND	50	100		ppb (v/v)	o-Xylene	3300	50	100		ppb (v/v)
1,1,1-Trichloroethane	ND	50	100		ppb (v/v)	Benzyl Chloride	ND	50	100		ppb (v/v)
Benzene	1400	50	100		ppb (v/v)	1,3-Dichlorobenzene	ND	50	100		ppb (v/v)
Carbon Tetrachloride	ND	50	100		ppb (v/v)	1,4-Dichlorobenzene	570	50	100		ppb (v/v)
Toluene	8100	500	1000	D	ppb (v/v)	1,2-Dichlorobenzene	150	50	100		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
V-73'	02-06-1058-5	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	3.8	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	5.4	0.5	1		ppb (v/v)	p/m-Xylene	1.8	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.74	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.65	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	0.59	0.50	1		ppb (v/v)
Toluene	3.0	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	095-01-021-1,705	N/A	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Project: Penrose Landfill

Date Received:	06/26/02
Work Order No:	02-06-1058
Preparation:	N/A
Method:	EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,705	Air	GC/MS K	N/A	06/26/02	K020626A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	96	92	60-140	4	0-30	
1,2-Dichloroethane	94	91	60-140	2	0-30	
Benzene	88	87	60-140	2	0-30	
Carbon Tetrachloride	101	97	60-140	4	0-30	
1,2-Dichloropropane	92	91	60-140	2	0-30	
c-1,3-Dichloropropene	99	96	60-140	3	0-30	
1,1,2-Trichloroethane	97	95	60-140	2	0-30	
Toluene	92	90	60-140	2	0-30	
Trichloroethene	86	82	60-140	4	0-30	
1,2-Dibromoethane	98	97	60-140	2	0-30	
Tetrachloroethene	87	84	60-140	3	0-30	
Ethylbenzene	96	94	60-140	2	0-30	
p/m-Xylene	100	97	60-140	3	0-30	
Bromoform	101	99	60-140	3	0-30	
o-Xylene	104	100	60-140	4	0-30	
1,4-Dichlorobenzene	101	99	60-140	3	0-30	
1,2-Dichlorobenzene	105	103	60-140	2	0-30	

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 02-06-1058

Cooler 0 of 0

SAMPLE RECEIPT FORM

CLIENT: Penrose Landfill LA Byproducts

DATE: 6/26/02

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ____ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ✓ Ambient temperature.
- ____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact): ____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

EXHIBIT 1: Sheet 7 of 8

Please Fax Copy 06-1058

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 6/26/02

	1	2	3	4	5					
Bag (I.D.#)	M-2	P-2	Q-10'	V-73'	TSI					
Condition Received in Lab*										

5 Total

Analyses Requested: CORE GROUP, H_2S - SAME AS LAST QUARTER -

Bags Prepared By: ROBERT McAllister Time: 1212

Date: 6/26/02

Bags Taken Out By: [signature] Time: 1212

Bags Taken to Lab By: [signature] Time: 1505

Bags Received In Lab By: [signature] Time: 1505 (6/26/02)

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

J152TABL.608

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EXHIBIT 1: Sheet 8 of 8

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EXHIBIT 2

PENROSE LANDFILL - Second Quarter 2002

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: Monitoring Results - April 26, 2002

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results - April 26 and 29, 2002

Exhibit 2.2.3: Monitoring Results - April 26, 2002

Exhibit 2.3: SRBPS TAC Laboratory Results - June 26, 2002

Hydrogen Sulfide and TO-14A Analyses

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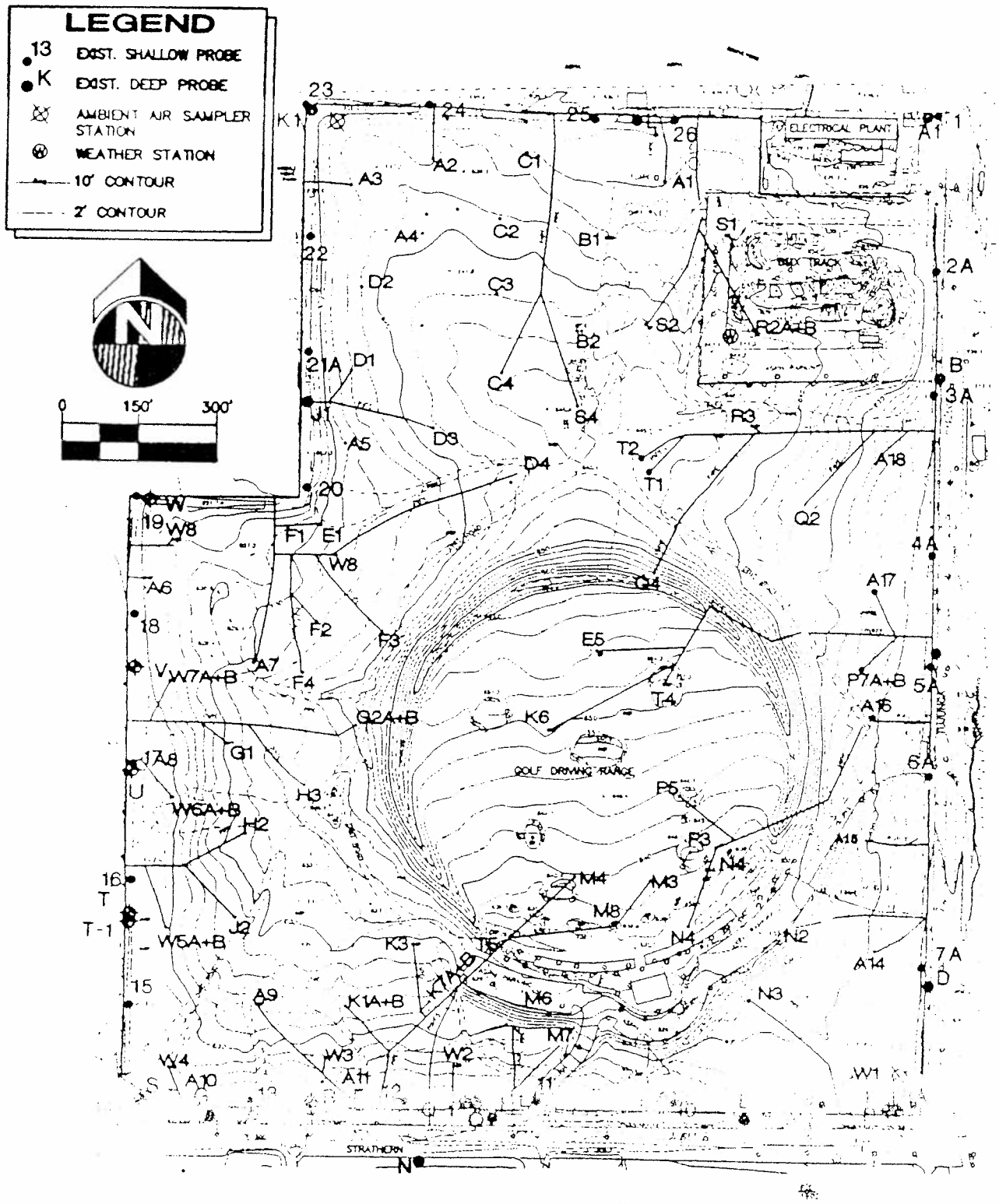
PENROSE LANDFILL
MONITORING PROBE LOCATIONS



METHANE SPECIALISTS
631 W. Alondra Suite 610 & 611
Carmanillo CA, 90012
TEL: (818) 707-3036
(805) 652-0000
(805 987-5356
FAX (805) 987-3968

Los Angeles By-Products Co
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504

Exhibit 2.1

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE: 4/30/02

PROBE #	DESIGNATION DEPTH	Time on	Time off	VOC/CH, (% VOLUME)	REMARKS PAGE 2
A-1		11:34.46	11:35.35	ND	4/30/02
B		11:43.54	11:44.48		
C	GREEN-21'	11:47.18	11:47.58		
	YELLOW-41'	11:46.42	11:47.03		2
	~~ORANGE-61'~~				
	RED - 81'	11:48.20	11:49.15		
D		11:50.59	11:52.10		
E		11:24.16	11:25.15		
F		11:19.15	11:19.59		
G		11:08.32	11:13.19		
J-1		12:49.00	12:50.00		4/30/02
K-1		10:50.25	10:51.34		4/26/02
L	GREEN-45'	10:38.10	10:39.02		
	YELLOW-65'	10:39.15	10:39.41		5
	ORANGE-85'	10:39.58	10:40.55		
	RED - 105'	10:41.17	10:42.09		
N	GREEN-22'	11:16.21	11:17.10		
	YELLOW-45'	11:13.38	11:14.24		
	ORANGE-68'	11:14.46	11:15.45		
	RED - 90'	11:11.55	11:12.30		
P	10'	11:42.00	11:42.57		
	40'	11:41.07	11:41.46		
	80'	11:40.00	11:40.51		
P-1	120'	11:42.58	11:43.48		4/26/02
Q	10'	11:51.20	11:54.17	6%	
	40'	11:56.24	11:58.33	4%	
	75'	11:58.49	11:59.28	ND	
Q-1	120'	12:00.08	12:00.50	ND	
	158'	12:01.03	12:01.41	ND.	

SEPICH ASSOCIATES/METHANE SPECIALISTS, 680 WALNUT ST., MOORPARK, CA 93021 TEL (818) 707-9036, FAX (818) 707-3012

Exhibit 2.2.1

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8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

August 14, 02

Sepich Associates
Methane Specialists
621 Via Alondra, Ste 610-1
Camarillo, Ca. 93012

Re: probe reads on "Q" and "V"

Mr. Alex Jentch:

Gas migration control wells W2 and W7A were adjusted in vacuum at 1340, 04/26/02 after received the notice from Bob Macallister, LA.B.P.

Monday, 04/29/02 probes "Q" and "V" were clear up at 1300 monitoring.

Victor Lam
Field foreman

Exhibit 2.2.2

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	DEPTH	Time on	Time off	VOC/CH4 (% VOLUME)	REMARKS
R	10'	12:06.17	12:07.15	ND	4/26/02
	40'	12:08.54	12:09.46	3%	
	80'	12:05.19	12:06.03	1.0%	
	120'	12:07.20	12:08.59	ND	
S	10'	12:14.05	12:17.26		
	40'	12:17.41	12:18.42		
	80'	12:19.52	12:20.42		
	120'	12:18.56	12:19.37		
T	10'	12:28.17	12:29.17		
	40'	12:29.29	12:30.18		
	73'	12:27.05	12:27.58		
T-1	72'	12:26.02	12:26.50		
U	10'	12:36.00	12:36.45		
	37'	12:35.05	12:35.48		
	68'	12:32.58	12:34.36	2%	
V	10'	12:39.52	12:40.31	ND	
	40'	12:40.47	12:42.22	.8%	
	73'	12:42.45	12:43.21	5%	
W	10'	12:56.25	12:57.05	ND	
	40'	12:59.16	1:00.06		
	80'	12:57.18	12:58.02		
	120'	12:58.22	12:59.03		
	158'	12:55.26	12:56.04		

NOTES:

31527ABL 602

SEPICH ASSOCIATES/METHANE SPECIALISTS, 680 WALNUT ST., MOORPARK, CA 93021 TEL (818) 707-3036, FAX (818) 707-3012

ENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE: 4/30/02

Exhibit 2.2.3

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists 4050 Katella Avenue, Suite 209 Los Alamitos, CA 90720-3482	Date Sampled: Date Received: Date Analyzed:	06/26/02 06/26/02 06/26/02
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	02-06-1058 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
M-2	ND	1
P-2	ND	1
Q-10'	ND	1
TSI	112	5
V-73'	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
V-73 (Duplicate)	112	118	5	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/26/02
Work Order No: 02-06-1058
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
M-2	02-06-1058-1	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.4	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.98	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	1.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.8	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-2	02-06-1058-2	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.85	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.94	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	4.7	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q-10'	02-06-1058-3	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.59	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	0.65	0.50	1		ppb (v/v)	p/m-Xylene	2.1	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.91	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	0.74	0.50	1		ppb (v/v)
Toluene	3.5	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Exhibit 2.3: Sheet 2 of 3

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/26/02
Work Order No: 02-06-1058
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	02-06-1058-4	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	310	50	100		ppb (v/v)	Trichloroethene	84	50	100		ppb (v/v)
1,1-Dichloroethene	ND	50	100		ppb (v/v)	1,2-Dibromoethane	ND	50	100		ppb (v/v)
Methylene Chloride	ND	200	100		ppb (v/v)	Tetrachloroethene	80	50	100		ppb (v/v)
1,1-Dichloroethane	ND	50	100		ppb (v/v)	Chlorobenzene	800	50	100		ppb (v/v)
Chloroform	ND	50	100		ppb (v/v)	p/m-Xylene	7100	100	100		ppb (v/v)
1,2-Dichloroethane	ND	50	100		ppb (v/v)	o-Xylene	3300	50	100		ppb (v/v)
1,1,1-Trichloroethane	ND	50	100		ppb (v/v)	Benzyl Chloride	ND	50	100		ppb (v/v)
Benzene	1400	50	100		ppb (v/v)	1,3-Dichlorobenzene	ND	50	100		ppb (v/v)
Carbon Tetrachloride	ND	50	100		ppb (v/v)	1,4-Dichlorobenzene	570	50	100		ppb (v/v)
Toluene	8100	500	1000	D	ppb (v/v)	1,2-Dichlorobenzene	150	50	100		ppb (v/v)

V-73'	02-06-1058-5	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	3.8	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	5.4	0.5	1		ppb (v/v)	p/m-Xylene	1.8	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.74	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.65	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	0.59	0.50	1		ppb (v/v)
Toluene	3.0	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,705	N/A	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Exhibit 2.3: Sheet 3 Of 3

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EXHIBIT 3

PENROSE LANDFILL - Second Quarter 2002

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 1)

Exhibit 3.2: ILSS TAC Laboratory Results - June 26, 2002

Hydrogen Sulfide and TO-14A Analyses

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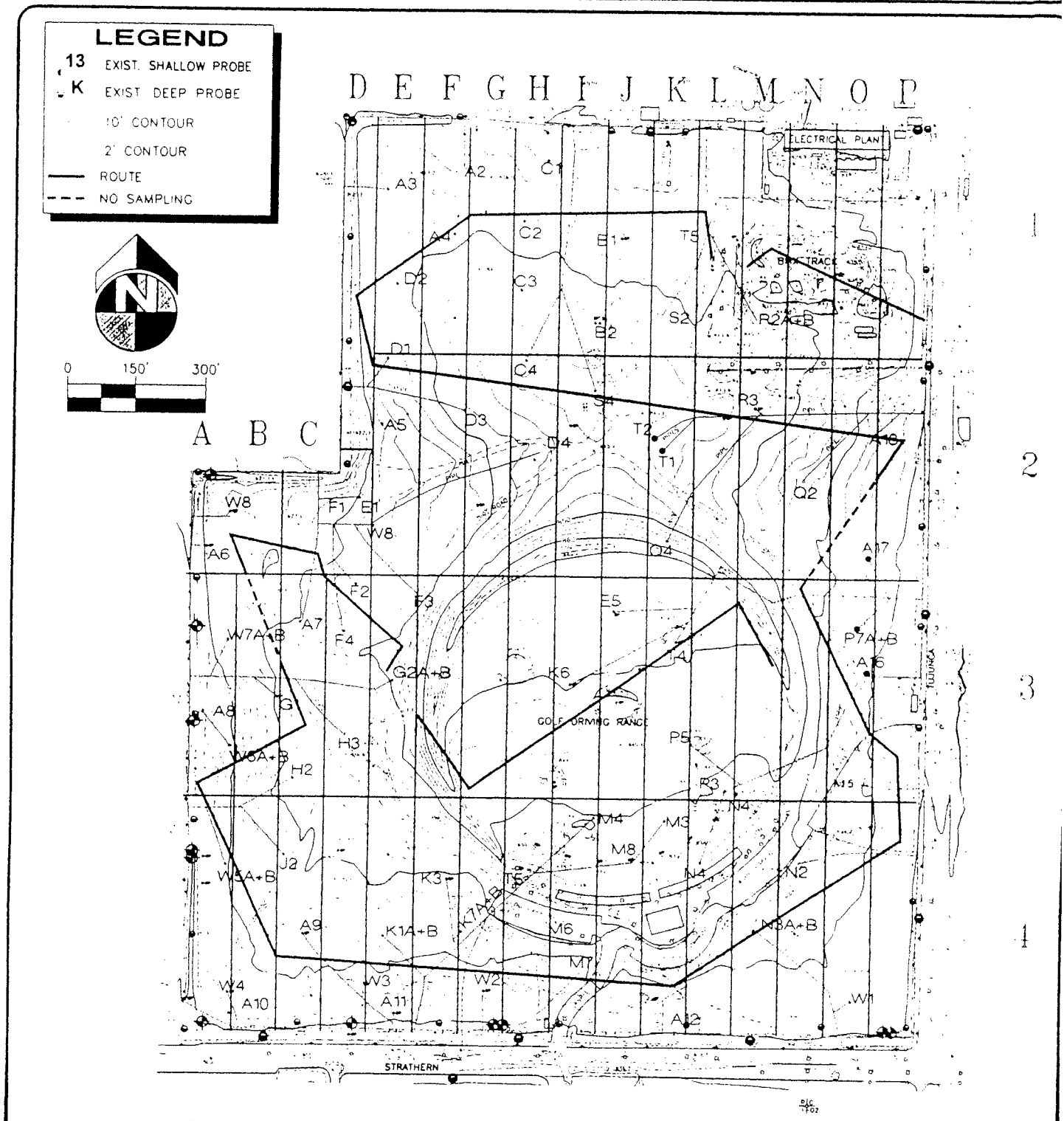
PENROSE LANDFILL

INTEGRATED SAMPLING ROUTE 1



SEPICH ASSOCIATES, Inc.
CIVIL ENGINEERS
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Exhibit 3.1

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Sampled: 06/26/02
Date Received: 06/26/02
Date Analyzed: 06/26/02

Work Order No.: 02-06-1058
Method: GC/FPD
Page 1 of 1

Attn: Robert McAllister
RE: Penrose Landfill

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
M-2	ND	1
P-2	ND	1
Q-10'	ND	1
TSI	112	5
V-73'	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
V-73 (Duplicate)	112	118	5	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Exhibit 3.2: Sheet 1 of 2

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	06/26/02
Work Order No:	02-06-1058
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
M-2	02-06-1058-1	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.4	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.98	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	1.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.8	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-2	02-06-1058-2	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.85	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.94	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	4.7	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q-10'	02-06-1058-3	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.59	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	0.65	0.50	1		ppb (v/v)	p/m-Xylene	2.1	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.91	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	0.74	0.50	1		ppb (v/v)
Toluene	3.5	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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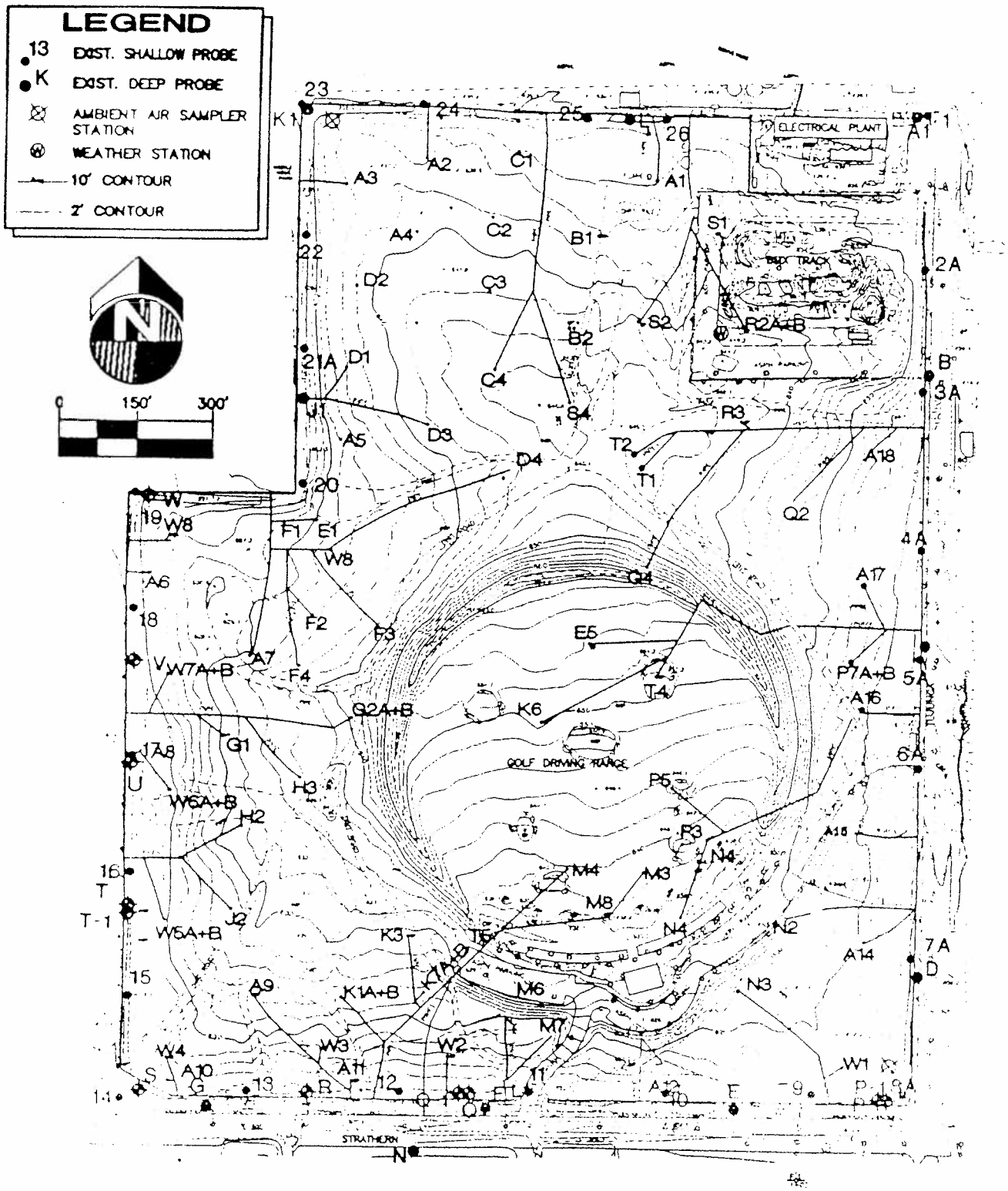
PENROSE LANDFILL
MONITORING PROBE LOCATIONS



METHANE SPECIALISTS
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444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

Exhibit 2.1

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE: 4/30/02

PROBE #	DESIGNATION DEPTH	Time on	Time off	VOC/CH4 (% VOLUME)	REMARKS PAGE 2
A-1		11:34.46	11:35.35	ND	4/30/02
B		11:43.54	11:44.48		
C	GREEN-21'	11:47.18	11:47.58		
	YELLOW-41'	11:46.42	11:47.03		2
	~~ORANGE-61'~~				
	RED - 81'	11:48.20	11:49.15		
D		11:50.59	11:52.10		
E		11:24.16	11:25.15		
F		11:19.15	11:19.59		
G		11:08.52	11:13.19		
J-1		12:49.00	12:50.00		4/30/02
K-1		10:50.25	10:51.34		4/26/02
L	GREEN-45'	10:38.10	10:39.02		
	YELLOW-65'	10:39.15	10:39.41		5
	ORANGE-85'	10:39.58	10:40.55		
	RED - 105'	10:41.17	10:42.09		
N	GREEN-22'	11:16.21	11:17.10		
	YELLOW-45'	11:13.38	11:14.24		
	ORANGE-68'	11:14.46	11:15.45		
	RED - 90'	11:11.55	11:12.30		
P	10'	11:42.00	11:42.57		
	40'	11:41.07	11:41.46		
	80'	11:40.00	11:40.51		
P-1	120'	11:42.58	11:43.48		4/26/02
Q	10'	11:51.20	11:54.17	6%	
	40'	11:56.24	11:58.33	4%	
	75'	11:58.49	11:59.28	ND	
Q-1	120'	12:00.08	12:00.50	ND	
	158'	12:01.03	12:01.41	ND.	

SEPICH ASSOCIATES/METHANE SPECIALISTS, 680 WALNUT ST., MOORPARK, CA 93021 TEL (818) 707-3036, FAX (818) 707-3012

JUL-24-2002 11:41 AM SA9P63828T 8187689292 P.01

Exhibit 2.2.1

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8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

August 14, 02

Spich Associates
Methane Specialists
621 Via Alondra, Ste 610-1
Camarillo, Ca. 93012

Re: probe reads on "Q" and "V"

Mr. Alex Jentch:

Gas migration control wells W2 and W7A were adjusted in vacuum at 1340, 04/26/02 after received the notice from Bob Kallister, LA.B.P.

Monday, 04/29/02 probes "Q" and "V" were clear up at 1300 monitoring.

Victor Lara
Field foreman

Exhibit 2.2.2

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	DEPTH	Time on	Time off	VOC/CH_4 (% VOLUME)	REMARKS
R	10'	12:06.17	12:07.15	ND	4/26/02
	40'	12:08.54	12:09.46	3.0%	
	80'	12:05.19	12:06.03	1.0%	
	120'	12:07.20	12:08.39	ND	
S	10'	12:14.05	12:17.26		
	40'	12:17.41	12:18.42		
	80'	12:19.52	12:20.42		
	120'	12:18.56	12:19.37		
T	10'	12:28.17	12:29.17		
	40'	12:29.29	12:30.18		
	73'	12:27.05	12:27.58		
T-1	72'	12:26.02	12:26.50		
U	10'	12:36.00	12:36.45		
	37'	12:35.05	12:35.48		
	68'	12:32.58	12:34.36	2%	
V	10'	12:39.52	12:40.31	ND	
	40'	12:40.47	12:42.22	.8%	
	73'	12:42.45	12:43.21	5%	
W	20'	12:56.25	12:57.05	ND	
	40'	12:59.16	1:00.06		
	80'	12:57.18	12:58.02		
	120'	12:58.22	12:59.03		
	158'	12:55.26	12:56.04		

NOTES:

3152TABL 602

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE: 4/30/02

Exhibit 2.2.3

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists	Date Sampled:	06/26/02
4050 Katella Avenue, Suite 209	Date Received:	06/26/02
Los Alamitos, CA 90720-3482	Date Analyzed:	06/26/02
	Work Order No.:	02-06-1058
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
M-2	ND	1
P-2	ND	1
Q-10'	ND	1
TSI	112	5
V-73'	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
V-73 (Duplicate)	112	118	5	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/26/02
Work Order No: 02-06-1058
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
M-2	02-06-1058-1	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.4	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.98	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	1.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.8	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-2	02-06-1058-2	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.85	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.94	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	4.7	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q-10'	02-06-1058-3	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.59	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	0.65	0.50	1		ppb (v/v)	p/m-Xylene	2.1	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.91	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	0.74	0.50	1		ppb (v/v)
Toluene	3.5	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received: 06/26/02
Work Order No: 02-06-1058
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	02-06-1058-4	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	310	50	100		ppb (v/v)	Trichloroethene	84	50	100		ppb (v/v)
1,1-Dichloroethene	ND	50	100		ppb (v/v)	1,2-Dibromoethane	ND	50	100		ppb (v/v)
Methylene Chloride	ND	200	100		ppb (v/v)	Tetrachloroethene	80	50	100		ppb (v/v)
1,1-Dichloroethane	ND	50	100		ppb (v/v)	Chlorobenzene	800	50	100		ppb (v/v)
Chloroform	ND	50	100		ppb (v/v)	p/m-Xylene	7100	100	100		ppb (v/v)
1,2-Dichloroethane	ND	50	100		ppb (v/v)	o-Xylene	3300	50	100		ppb (v/v)
1,1,1-Trichloroethane	ND	50	100		ppb (v/v)	Benzyl Chloride	ND	50	100		ppb (v/v)
Benzene	1400	50	100		ppb (v/v)	1,3-Dichlorobenzene	ND	50	100		ppb (v/v)
Carbon Tetrachloride	ND	50	100		ppb (v/v)	1,4-Dichlorobenzene	570	50	100		ppb (v/v)
Toluene	8100	500	1000	D	ppb (v/v)	1,2-Dichlorobenzene	150	50	100		ppb (v/v)

V-73'	02-06-1058-5	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	3.8	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	5.4	0.5	1		ppb (v/v)	p/m-Xylene	1.8	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.74	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.65	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	0.59	0.50	1		ppb (v/v)
Toluene	3.0	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,705	N/A	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

Exhibit 2.3: Sheet 3 0f 3

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EXHIBIT 3

PENROSE LANDFILL - Second Quarter 2002

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 1)

Exhibit 3.2: ILSS TAC Laboratory Results - June 26, 2002

Hydrogen Sulfide and TO-14A Analyses

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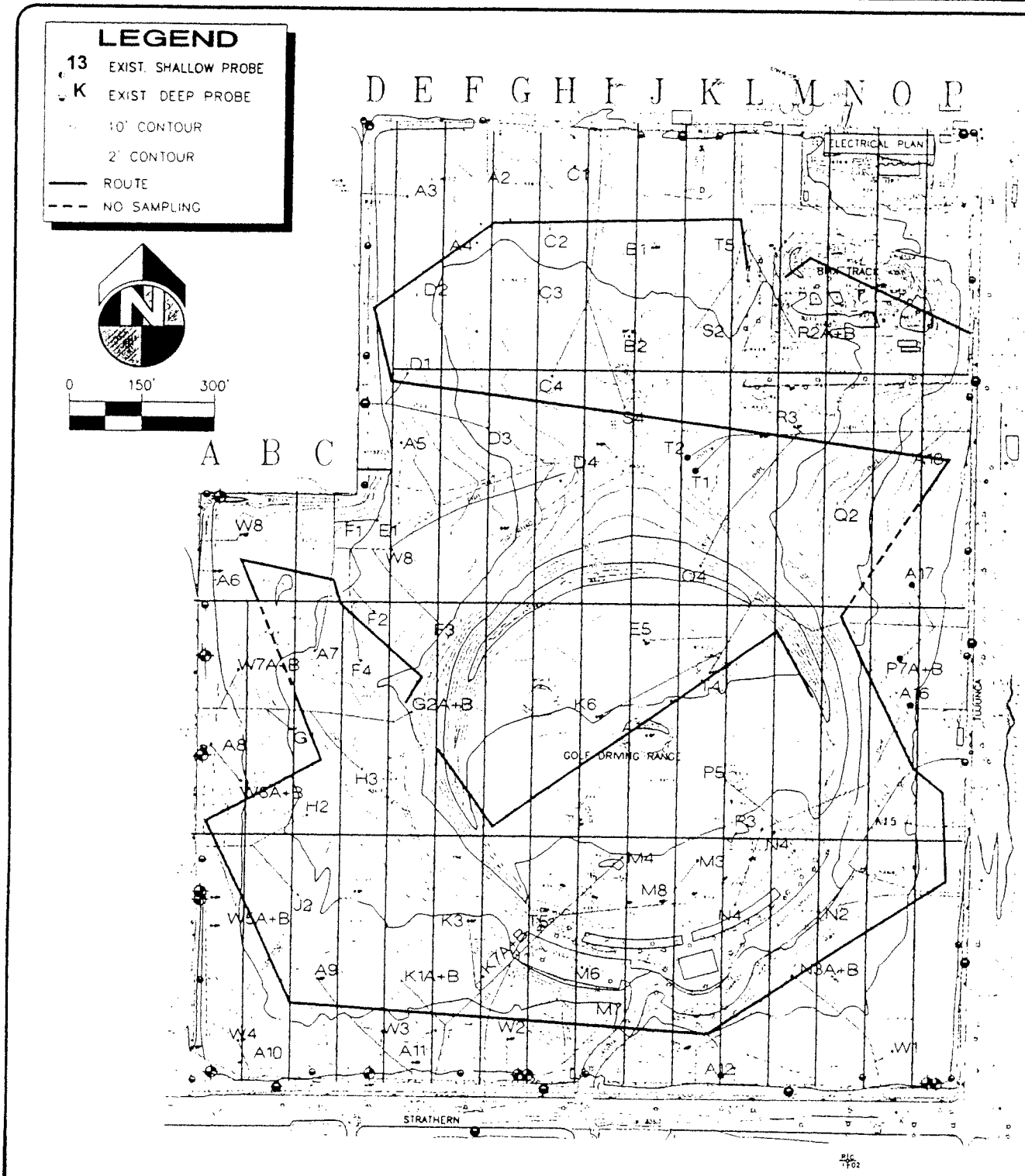
PENROSE LANDFILL

INTEGRATED SAMPLING ROUTE 1



SEPICH ASSOCIATES, Inc.
CIVIL ENGINEERS
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Los Angeles By-Products Co.
Incorporated 1925
444 Irving Drive Suite #101 Burbank CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

Exhibit 3.1

SHEET ___ OF ___

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists	Date Sampled:	06/26/02
4050 Katella Avenue, Suite 209	Date Received:	06/26/02
Los Alamitos, CA 90720-3482	Date Analyzed:	06/26/02
	Work Order No.:	02-06-1058
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
M-2	ND	1
P-2	ND	1
Q-10'	ND	1
TSI	112	5
V-73'	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
V-73 (Duplicate)	112	118	5	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Exhibit 3.2: Sheet 1 of 2

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
4050 Katella Avenue, Suite 209
Los Alamitos, CA 90720-3482

Date Received:	06/26/02
Work Order No:	02-06-1058
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
M-2	02-06-1058-1	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.4	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.98	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	1.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.8	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
P-2	02-06-1058-2	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.85	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.94	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	4.7	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q-10'	02-06-1058-3	06/26/02	Air	N/A	06/26/02	K020626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.59	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	0.65	0.50	1		ppb (v/v)	p/m-Xylene	2.1	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.91	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	0.74	0.50	1		ppb (v/v)
Toluene	3.5	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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METHANE SPECIALISTS
621 Via Alondra Suite 610 & 611
Camarillo CA, 93012

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(805) 552-0000
FAX(805) 987-3968

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

February 14, 2001

RECEIVED
FEB 19 2002
L.A. BY-PROD CO.

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Fourth Quarter, 2001
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the thirty third quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October through December 2001. This is the seventh quarterly report submitted under the 1999 revised version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill.

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the fourth quarter of 2001. No exceedances were detected from *subsurface refuse boundary probes* (SRBP) during scheduled SCAQMD Rule 1150.1 compliance probe monitoring, however, six exceedances were detected during other routine probe monitoring events.

1. Reporting and Record Keeping Requirements.

Reporting: South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).
- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2001 fourth quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events - compliance probe monitoring performed on October 26, November 28, and December 27) for TOC; additional monthly probe monitoring for the City of Los Angeles, Environmental Affairs Department (LEA) requirements performed on October 15, November 8, and December 6; and LEA Inspector monitoring of selected probes on October 16, November 30, and December 7, 2001.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes Q @ 40' and R @ 40' were sampled on December 18, 2001);
- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 3 traversed, sampled and monitored for TOC on December 13, 17, and 18; Grids H-2 and A-3 were sampled for TAC laboratory analyses on December 18, 2001);
- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on October 24 and December 6 Path A was monitored, and on November 20 Path B was monitored; and
- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (December 18, 2001).
- Collect (annually) ambient air samples (AAS) to determine the concentration of TOC and TAC from upwind (background) locations and downwind locations. Per Attachment A, Section 5.1: "....ambient air samples shall be collected for analysis at the landfill property boundary from both an upwind and downwind sampler sited to provide good meteorological exposure to the predominant offshore (drainage land breeze) and on-shore (sea breeze) wind flow patterns. The upwind and downwind samples shall be collected simultaneously over two 12 hour periods beginning between 9:00 a.m. and 10:00 a.m., and 9:00 p.m. and 10:00 p.m. on the same day or different days." (sampled December 17 and 18, 2001).

Record Keeping: Section (f)(1) of the Rule describes the record keeping requirements. The RECORDS are available for SCAQMD inspection at Los Angeles By-Products' office at 444 Irving Drive, Suite 101, Burbank, California. Section (f)(2) of the Rule requires that this report contain documentation regarding exceedances (and follow-up mitigation measures and results) and TAC laboratory results. The requirements regarding exceedances are summarized in the text of this report and required supplemental documentation is included as attachments in the EXHIBITS with this report. The TAC results are included as EXHIBITS with this report.

The list below inventories the documents supplemental to this report, and required by the Rule, that are available as RECORDS in concurrence with Section (f)(1), but are not included with this report.

- Wind speed and direction data during the AAS event;
- Maps showing ILSM traverse routes; and
- Quality Control Sheets (QCS) for SRBPM (except page 2 of October 26,01 SRBPM included in EXHIBIT 2.2.2 as follow-up documentation), SRBPS, ILSS, ILSM (map only), TSI, and AAS.

2. **Control System - Penrose Power Plant** (see location map in EXHIBIT 2.1).

Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at Covanta Power Pacific's (formerly Ogden Power Pacific, Inc.) Plant at 8301 Tujunga Avenue, Sun Valley.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

3. **Compliance Probe Monitoring Results** (see probe location map in EXHIBIT 2.1).

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on October 26, November 28, and December 27, 2001. Results: There were no exceedances detected in compliance probes during these fourth quarter 2001 monitoring events. Seven exceedances were detected in compliance probes during other monitoring events.

Exceedance 1: 10-16-01: 7% of volume from the 40-foot depth at Probe Q (during LEA Inspector monitoring - results are presented in EXHIBIT 2.2.1).

Mitigation Measures and Follow-up Monitoring Results: 10-16-01: According to the Rule, the first mitigation measure is to make extraction well adjustments, however, the exceedance resulted from the Plant being down because the Department of Water and Power was performing some transformer maintenance. No adjustments were made. Resumption of normal operations cleared the probe. 10-26-01: Follow-up monitoring results on October 26 at Probe Q were non-detect at all depths (mitigation and follow-up monitoring documentation are presented in EXHIBIT 2.2.2).

Exceedances 2 & 3: 11-8-01: 5.5% of volume from the 40-foot depth at Probe Q and 7.2% of volume from the 40-foot depth at Probe R (during LEA compliance monitoring - results are presented in EXHIBIT 2.2.3).

Mitigation Measures and Follow-up Monitoring Results: 11-11-01: Well adjustments were made at extraction Wells W2 and W3. 11-16-01: Follow-up monitoring results on November 16 at Probes Q and R were all non-detect (mitigation and follow-up monitoring documentation are presented in EXHIBIT 2.2.4).

Exceedances 4 & 5: 11-30-01: 5.8% of volume from the 10-foot depth at Probe Q and 14.5% from the 40-foot depth (during LEA Inspector monitoring - results are presented in EXHIBIT 2.2.5).

Mitigation Measures and Follow-up Monitoring Results: Well adjustments were made at extraction Well W2. 12-3,5,6-01: Follow-up monitoring was performed on December 3, 5, and 6 at Probe Q (mitigation and follow-up monitoring documentation are presented in EXHIBIT 2.2.6).

Exceedances 6 & 7: 12-6-01: 6% of volume from the 40-foot depth at Probe Q and 10% of volume from the 40-foot depth at Probe R (during LEA compliance monitoring - results are presented in EXHIBIT 2.2.7).

Mitigation Measures and Follow-up Monitoring Results: Well adjustments had been made at extraction Well W2 and were extended to Well W3. 12-7,10,13-01: Follow-up monitoring was performed on December 7, 10, and 13 at Probes Q and R (all results were ND except for 0.1% of volume from the 40-foot depth at Probe R on December 7) (mitigation and follow-up monitoring documentation are presented in EXHIBIT 2.2.8).

4. Compliance Probe Sampling Results (see probe location map in EXHIBIT 2.1).

Probe TAC samples were collected on December 18, 2001 from Probes Q @ 40' and R @ 40'. The field TOCs were non-detect at the % of volume range. The TAC lab results for samples Q 40' and R 40' are included in EXHIBIT 2.3.

5. Integrated Landfill Surface Sampling (ILSS) Results (see traverse map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with a Foxboro portable Organic Vapor Analyzer (OVA), Model OVA Century 128, Flame Ionization Detector (FID), calibrated to methane. The results were recorded on the quality control sheets (QCS). All 58 samples registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results (samples ISS H-2 from grid H-2 and ISS A3 from grid A3) in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

6. Instantaneous Landfill Surface Monitoring (ILSM) Results.

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

7. Ambient Air Sampling (AAS) Results (see location map in EXHIBIT 2.1).

AAS, as approved by SCAQMD, were collected on December 17 and 18, 2001. AAS TAC results are included as laboratory results (samples AAS-NW#1, AAS-SE#1, AAS-NW#2, and AAS-SE#2) in EXHIBIT 4. A Climatronics, Electronic Weather Station (EWS), used during AAS at the site, was equipped to continuously record wind speed, temperature, and wind direction on a strip chart. The weather station results are available as RECORDS.

8. Toxic Air Contaminant Results.

As required by Section (f)(2)(B)(ii) of the Rule, fourth quarter 2001 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) EXHIBIT 1;
- SRBPS (Samples Q 40' and R 40') EXHIBIT 2.3;
- ILSS (Samples H-2 and A3) EXHIBIT 3.2; and
- AAS (AAS-NW#1, -SE#1, -NW#2, -SE#2) EXHIBIT 4.

9. Certification.

This quarterly report and certification is based upon Sepich Associates'/Methane Specialists' understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California, that I am knowledgeable in the field of landfill gas migration control and monitoring, that the monitoring and sampling for landfill gas emissions and migration and the mitigation measures at Penrose Landfill for the Fourth Quarter of 2001 were performed by me or persons under my direct supervision, and that I assume professional responsibility for the validity and accuracy of this report.

Sincerely, Methane Specialists

REGISTERED PROFESSIONAL ENGINEER JOHN E. SEPICH NO. C 37509 exp. 6-30-2004 CIVIL STATE OF CALIFORNIA

John Sepich, P. E.

Distribution: SCAQMD, Senior Engineering Manager, Toxics and Waste Management Branch
Los Angeles By-Products Company, Mr. Mike McAllister
City of Los Angeles, Local Enforcement Agency, Mr. George M. Payba
California Integrated Waste Management Board, Mr. Peter Janicke

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Enclosures: for Fourth Quarter 2001

EXHIBIT 1 - Control Device Laboratory Results
TSI TAC Laboratory Results: H_2S and TO-14A Analyses - December 18, 2001
EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation
Exhibit 2.1: Probe Location Map
Exhibit 2.2: SRBPM Exceedances
Exhibit 2.2.1: Monitoring Results - October 16, 2001
Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results - October 16 through 26, 2001
Exhibit 2.2.3: Monitoring Results - November 8, 2001
Exhibit 2.2.4: Mitigation and Follow-up SRBPM Documents - Nov. 11 and 16, 2001
Exhibit 2.2.5: Monitoring Results - November 30, 2001
Exhibit 2.2.6: Mitigation and Follow-up SRBPM Documents - Dec. 3, 5, and 6, 2001
Exhibit 2.2.7: Monitoring Results - December 6, 2001
Exhibit 2.2.8: Mitigation and Follow-up SRBPM Documents - Dec. 7, 10, and 13, 2001
Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses - December 18, 2001

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation
Exhibit 3.1: Route 3 Traverse Map
Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - December 18, 2001

EXHIBIT 4 AAS TAC Laboratory Results

J152REPT.633

CONFIDENTIAL

EXHIBIT 1

PENROSE LANDFILL - Fourth Quarter 2001

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results - December 18, 2001

Hydrogen Sulfide and TO-14A Analyses

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

December 27, 2001

Robert McAllister
L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Subject: **Calscience Work Order No.: 01-12-0957**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/18/01 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Sampled: 12/18/01
Date Received: 12/18/01
Date Analyzed: 12/18/01

Work Order No.: 01-12-0957
Method: GC/FPD
Page 1 of 1

Attn: Robert McAllister
RE: Penrose Landfill

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
AAS NW#1	ND	1
AAS SE#1	ND	1
R 40'	ND	1
TSI	120	5
ISS A-3	ND	1
Q 40'	ND	1
ISS H-2	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
01-12-0930-1 (Duplicate)	4.98	5.50	10	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/18/0
Work Order No: 01-12-095
Preparation: N/
Method: EPA TO-14/

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	01-12-0957-4	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	310	63	125		ppb (v/v)	Trichloroethene	110	63	125		ppb (v/v)
1,1-Dichloroethene	ND	63	125		ppb (v/v)	1,2-Dibromoethane	ND	63	125		ppb (v/v)
Methylene Chloride	280	250	125		ppb (v/v)	Tetrachloroethene	110	63	125		ppb (v/v)
1,1-Dichloroethane	ND	63	125		ppb (v/v)	Chlorobenzene	950	63	125		ppb (v/v)
Chloroform	ND	63	125		ppb (v/v)	p/m-Xylene	11000	130	125		ppb (v/v)
1,2-Dichloroethane	ND	63	125		ppb (v/v)	o-Xylene	5000	63	125		ppb (v/v)
1,1,1-Trichloroethane	ND	63	125		ppb (v/v)	Benzyl Chloride	ND	63	125		ppb (v/v)
Benzene	1700	63	125		ppb (v/v)	1,3-Dichlorobenzene	ND	63	125		ppb (v/v)
Carbon Tetrachloride	ND	63	125		ppb (v/v)	1,4-Dichlorobenzene	1100	63	125		ppb (v/v)
Toluene	11000	250	500	D	ppb (v/v)	1,2-Dichlorobenzene	220	63	125		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS A-3	01-12-0957-5	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	4.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.6	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	15	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q 40'	01-12-0957-6	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	1.0	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	4.6	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.9	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	9.2	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/18/01
Work Order No: 01-12-0957
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS H-2	01-12-0957-7	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.54	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	5.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.9	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.4	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	11	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,542	N/A	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY
Method GC/FPD

L.A. By Products/Sepich Associates, Inc.
Page 1 of 1

Work Order No.: 01-12-0957
Date Analyzed: 12/18/01

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
Hydrogen Sulfide	20.5	20.0	98	80 - 120

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill

Date Received: 12/18/01
Work Order No: 01-12-0957
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,542	Air	GC/MS V	N/A	12/19/01	V011219A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	103	97	60-140	6	0-30	
1,2-Dichloroethane	102	97	60-140	5	0-30	
Benzene	97	94	60-140	3	0-30	
Carbon Tetrachloride	110	102	60-140	8	0-30	
1,2-Dichloropropane	97	93	60-140	3	0-30	
c-1,3-Dichloropropene	108	102	60-140	5	0-30	
1,1,2-Trichloroethane	99	94	60-140	5	0-30	
Toluene	95	90	60-140	5	0-30	
Trichloroethene	95	92	60-140	4	0-30	
1,2-Dibromoethane	104	99	60-140	4	0-30	
Tetrachloroethene	96	91	60-140	5	0-30	
Ethylbenzene	97	92	60-140	5	0-30	
p/m-Xylene	105	99	60-140	6	0-30	
Bromoform	114	106	60-140	7	0-30	
o-Xylene	97	92	60-140	6	0-30	
1,4-Dichlorobenzene	104	99	60-140	5	0-30	
1,2-Dichlorobenzene	99	93	60-140	5	0-30	

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Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 01-12-0957

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
ND	Not detected at indicated reporting limit.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-750

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 1 2 - 0 9 5 7

Cooler Ø of Ø

SAMPLE RECEIPT FORM

CLIENT: L.A. BY PRODUCTS DATE: 12/10/01

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
✓ Ambient temperature. (TEDLAR)

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact): _____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

EXHIBIT 1: Sheet 9 of 10

0957

BAG SAMPLE-CUSTODY FORM

Project PENROSE LANDFILL

Date: 12-18-01

Bag (I.D.#)	AAS NNE#1	AAS SE#1	R 40'	TSI	ISS A-3	Q 40'	ISS H-2			
Condition Received in Lab*	F	F	F	F	F	F	F			

Analyses Requested: TO-14 & H_2S

Bags Prepared By: [illegible] Time: 0930

Bags Taken Out By: [illegible] 9:40 AM 12/18/01 Date: 12/18/01

Bags Taken to Lab By: [illegible] Time: 11:25 12/18/01

Bags Received In Lab By: [illegible] Time: 1615 12/18/01

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

J152TABL.408

EXHIBIT 1: Sheet 10 of 10

000415

CONFIDENTIAL

EXHIBIT 2

PENROSE LANDFILL - Fourth Quarter 2001

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: Monitoring Results - October 16, 2001

Exhibit 2.2.2: Mitigation (10/16/01) and Follow-up SRBPM Results (10/26/01)

Exhibit 2.2.3: Monitoring Results - November 8, 2001

Exhibit 2.2.4: Mitigation (11/11/01) and Follow-up SRBPM Documents (11/16 /01)

Exhibit 2.2.5: Monitoring Results - November 30, 2001

Exhibit 2.2.6: Mitigation (11/30/01) and Follow-up SRBPM Results (12/3,5,6/01)

Exhibit 2.2.7: Monitoring Results - December 6, 2001

Exhibit 2.2.8: Mitigation (12/6/01) and Follow-up SRBPM Results (12/7,10,13/01)

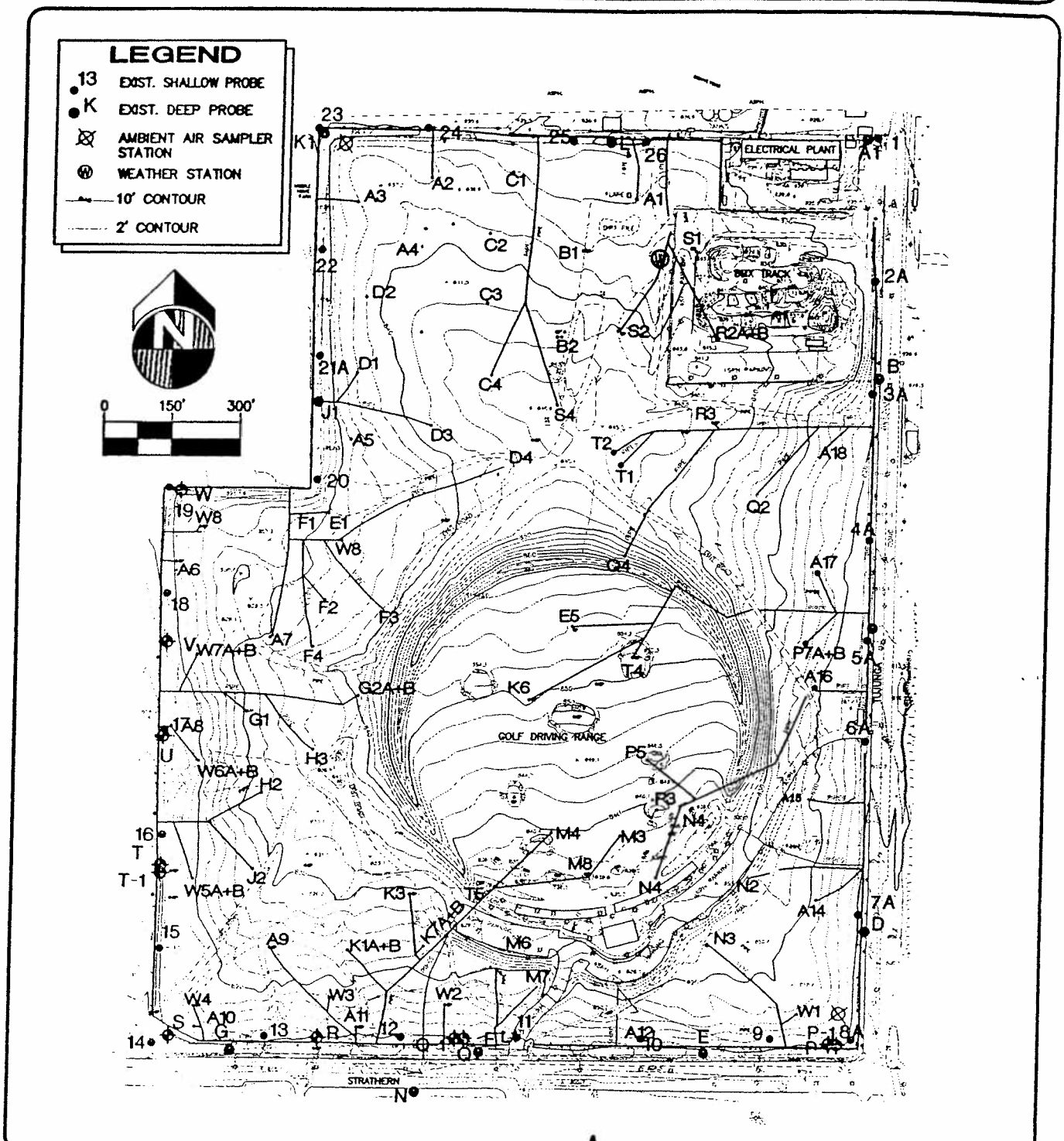
Exhibit 2.3: SRBPS TAC Laboratory Results - December 18, 2001

Hydrogen Sulfide and TO-14A Analyses

CONFIDENTIAL

PENROSE LANDFILL MONITORING PROBE LOCATIONS

J152-6



METHANE SPECIALISTS
621 Via Alondra Suite 610 & 611
Camarillo CA, 93012
TEL: (818) 707-3036
(805) 552-0000
(805 987-5356
FAX: (805) 987-3968

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

Exhibit 2.1

SHEET ___ OF ___

CONFIDENTIAI

Closed Facility Inspection Report

Enforcement Agency: City of Los Angeles

Page 1 of 1

FACILITY FILE NUMBER: 19-AR-0008	PROGRAM CODE (LOCAL=L, STATE=S): L	INSPECTION DATE (MM DD YY): 10/18/01	TIME IN / TIME OUT / INSPECTION TIME
FACILITY NAME: Penrose Landfill			RECEIVED BY OPERATOR: Mail
FACILITY LOCATION: 8300 Tujunga Avenue, Sun Valley, CA 91352			OWNER
INSPECTOR: George M. Payba	INSPECTOR SIGNATURE: George M. Payba		ALSO PRESENT

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 30 OF THE PUBLIC RESOURCES CODE (PRC) AND TITLE 27 CALIFORNIA CODE OF REGULATION (CCR).

THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING: V = VIOLATION, A = AREA OF CONCERN, NA = NOT APPLICABLE

SITES SUBJECT TO ARTICLE 2 STANDARDS

CLOSED SITES	V	A	NA
CLOSURE PLANS			
21880 - CERTIFICATION OF CLOSURE			
21890 - REVISION OF APPROVED PLANS FOR CPC MAINTENANCE			
RECORDS			
21150 - EMERGENCY RESPONSE PLAN			
21170 - RECORDING			
21800 - CHANGE OF OWNERSHIP			
SECURITY			
21135 - SECURITY AT CLOSED SITES			
GRADING			
21142 - FINAL GRADING			
21146 - SLOPE STABILITY			
DRAINAGE AND EROSION CONTROL			
21160 - DRAINAGE/EROSION CONTROL			
MONITORING AND CONTROL SYSTEMS			
21190 - LF GAS CONTROL/LEACHATE CONTACT			
GAS MONITORING AND CONTROL SYSTEMS			
20813 - EXEMPTIONS			
20819 - GAS CONTROLS	V		
20821 - GAS MONITORING/CONTROL			
20823 - MONITORING			

	V	A	NA
MONITORING AND CONTROL SYSTEMS			
20825 - PERIMETER MONITORING NETWORK			
20831 - STRUCTURE MONITORING			
20832 - MONITORED PARAMETERS			
20833 - MONITORING FREQUENCY			
20834 - REPORTING			
20837 - CONTROL			
POSTCLOSURE			
21180 - POSTCLOSURE MAINTENANCE			
21190 - POSTCLOSURE LAND USE			
OTHER			
SITES UNDERGOING CLOSURE			
21137 - TIME EXTENSION FOR CLOSURE			
21137 - STRUCTURE REMOVAL			
21140 - FINAL COVER			
OTHER			

COMMENTS (ADD PAGES FOR ADDITIONAL SPACE)

Landfill gas (LFG) migration monitoring was conducted during the inspection using a Landtec GA-90. During the monitoring, LFG was detected that exceeded the regulatory limit of 5% by volume.

The following readings (% by volume LFG) were obtained:

Probe L red: 0.1
Probe L green: 0.1

Probe Q @ 40': 7.0.

I notified Robert McAllister by telephone of the violation.

The permittee should take appropriate measures with the LFG system to control LFG from migrating out of its perimeter.

DISTRIBUTION: TOP - OWNER MIDDLE - EA BOTTOM - OPERATOR

Exhibit 2.2.1

CONFIDENTIAL

8309 TAC *8309 Tujunga Avenue Corporation*

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

Feb. 15, 2002

Sepid Associates
Methane Specialists
680 Walnut Street
Moorpark, Ca. 93021

Re: Correction on probe readings 10/16/01, 11/08/01, 11/30/01 and 12/06/01

Mr. Alex Fentch:

Based on 10/16/01 Penrose plant operation. It has been down from 0800 AM to 1230 PM for SWP working on transformer maintenance. So there was no well adjustments on that day.

Gas well adjustments were started on 11/11/01 to increase suction pressure on wells W2 and W3 for clearing up probe reads on "Q" and "R".

Kept monitoring those probes on daily basis. probes "Q" and "R" were completely cleared up on 12/11/01.

VICTOR LAM
Field Foreman

CONFIDENTIAL

PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE: 10/26/01

PROBE #	DESIGNATION DEPTH	Time on	Time off	VOC/CH_4 (% VOLUME)	REMARKS PAGE 2
A-1		12:46.44	12:47.20	ND	
B		12:54.41	12:55.19		
C	~~GREEN 21'~~				
	YELLOW-41'	12:58.09	12:58.41		
	ORANGE-61'	12:57.48	12:57.57		(2) pumps
	RED - 81'	12:58.51	12:59.13		(2) pumps
D		1:00.48	1:01.32		
E		1:03.34	1:04.09		
F		1:07.13	1:08.08		
G		1:12.32	1:13.26		
J-1		11:12.24	11:13.02		
K-1		11:19.44	11:20.26		
L	GREEN-45'	11:27.10	11:27.47		
	YELLOW-65'	11:26.25	11:26.53		(4) pumps
	ORANGE-85'	11:28.05	11:29.13		
	RED - 105'	11:29.30	11:33.16		
N	GREEN-22'	12:36.30	12:37.08		
	YELLOW-45'	12:35.23	12:36.12		
	ORANGE-68'	12:38.28	12:39.12		
	RED - 90'	12:37.24	12:38.10		
P	10'	10:08.20	10:08.56		
	40'	10:09.14	10:09.49		
	80'	10:07.31	10:08.08		
P-1	120'	10:10.10	10:10.45		
Q	10'	10:19.57	10:20.36		
	40'	10:19.00	10:19.42		
	75'	10:20.52	10:21.27		
Q-1	120'	10:22.03	10:22.49		
	158'	10:23.00	10:23.45		

CONFIDENTIAL

J481

8309 Tujunga Avenue Corp. – Penrose
8301 Tunjunga Avenue
Sun Valley, California 91352
Tel: (323) 875-1095 Fax: (818) 768-6039

JOB NAME: PENROSE LANDFILL

DATE: Th 11-08-01

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: ATF

TIME: 1000 - 1330

INSTRUMENT: BACHARACH GP-II

PARAMETER: % LEL converted to % Vol. TOC

REMARKS: Initially checked GP II w/2.5% CH4 calibrant: read 36% LEL. After monitoring checked GP II w/2.5% CH4: read 33% LEL; i.e. average = 34.5% used in conversion from % LEL to % Vol. 34.5 = 1.45X read = true gas concentration in % LEL true LEL X .05 = % vol. ND = not detected (at LEL level). X = see remarks; P = plugged, (E) = excluded (V) = V26 HHM

PROBE #	% Vol. TOC
1	ND
2 A	ND
3 A	ND
4 A	ND
5 A	ND
6 A	ND
7 A	ND
8 A	ND
9	ND
10	0.05
11	ND
12	ND
13	0.05
14	ND
15	ND
16	ND
17	ND
18	ND
19	ND
20	ND
21 A	ND
22	ND
23	ND
24	ND
25	ND
26	ND

PROBE #		% Vol.	REMARKS
A-1		ND	
B		ND	
C	GREEN-21'	ND	
C	YELLOW-41'	X	yanked out
C	ORANGE-61'	X	missing
C	RED - 81'	ND	
D		2.8	
E		ND	
F		ND	
G		0.15	
J-1		ND	
K-1		ND	
L	GREEN-45'	ND	
L	YELLOW-65'	ND	
L	ORANGE-85'	ND	
L	RED - 105'	ND	
N	GREEN-22'	0.05	
N	YELLOW-45'	0.05	
N	ORANGE-68'	0.05	
N	RED - 90'	0.05	
P	10'	ND	
P	40'	ND	
P	80'	ND	
P-1	120'	ND	
Q	10'	0.05	
Q	40'	5.5	(E)
Q	75'	ND	
Q-1	120'	ND	
Q-1	158'	ND	

		% Vol.	REMARKS
R	10'	0.05	
R	40'	7.2	(E)
R	80'	ND	
R	120'	ND	
S	10'	ND	
S	40'	0.05	
S	80'	0.05	
S	120'	ND	
T	10'	ND	
T	40'	ND	
T	73'	P (V)	plugged
T-1	72'	ND	
U	10'	ND	
U	37'	ND	
U	68'	ND	
V	10'	ND	
V	40'	ND	
V	73'	ND	
W	10'	ND	
W	40'	ND	
W	80'	ND	
W	120'	ND	
W	158'	ND	

ANY PROBE ≥ 5% CALL (323) 875-1095

SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

Exhibit 2.2.3

CONFIDENTIAL

8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

Feb. 15, 2002

Sepid Associates
Methane Specialists
680 Walnut Street
Moorpark, Ca. 93021

Re: Correction on probe readings 10/16/01, 11/08/01, 11/30/01 and 12/06/01

Mr. Alex Fentch:

Based on 10/16/01 Penrose plant operation. It has been down from 0800 AM to 1230 PM for DWP working on transformer maintenance. So there was no well adjustments on that day.

Gas well adjustments were started on 11/11/01 to increase suction pressure on wells W2 and W3 for clearing up probe reads on "Q" and "R".

Kept monitoring those probes on daily basic. probes "Q" and "R" were completely cleared up on 12/11/01.

VICTOR LAM
Field Foreman

CONFIDENTIAL

SEPICH ASSOCIATES
located in the walnut adobe
100 WALNUT ST. MOORPARK, CA 93021
TEL: (818) 707-[illegible] (805) 882-0000
FAX: (818) 707-[illegible] (805) 882-0001

JOB NAME: PENROSE LANDFILL

JOB No. 3152-6
DATE 11/16/01

METHANE MONITORING INSPECTION REPORT

CLIMATE:

BRIGHT	CLOUDY	<32° F	71°–85°	STILL	DRY
CLEAR	OVERCAST	33°–55°	86°–100° F	BREEZY	(MODERATE)
FOG	RAIN	56°–70°	>100° F	WIND	HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☑ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED 1
- ☐ INTEGRATED SURFACE SAMPLING (ISS): GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: THIS IS A FOLLOW UP FROM VIOLATION ON 11/08/01. INSPECTOR USED GAS TECH 1pl-204. MONITOR BEGAN AT 10:00 AM and was complete by 11:00 AM. TESTED ALL DEPTHS AT PROBE R, Q, P, T, U, V. RESULTS: ALL WERE ND.

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

INSPECTOR _____ PRINCIPAL _____

G:\Job\3152-6\Monitrsp.dwg July 23 1999 2:58pm By: eric

000423

Exhibit 2.2.4: Sheet 2 of 2

CONFIDENTIA

STATE OF CALIFORNIA
CIWMB (2/97)

Closed Facility Inspection Report

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Enforcement Agency: City of Los Angeles

Page 1 of 1

FACILITY FILE NUMBER	PROGRAM CODE (SOLID WASTE)	INSPECTION DATE	TIME IN / TIME OUT	INSPECTION TIME
19-AR-0006	L	11/30/01		

FACILITY NAME: Penrose Landfill

RECEIVED BY OPERATOR: Mail

FACILITY LOCATION: 8300 Tujunga Avenue, Sun Valley, CA 91352

OWNER:

INSPECTOR: George M. Payba

INSPECTOR SIGNATURE: George M. Payba

ALSO PRESENT:

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 30 OF THE PUBLIC RESOURCES CODE (PRC) AND TITLE 27 CALIFORNIA CODE OF REGULATION (CCR).

THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING: V = VIOLATION A = AREA OF CONCERN NA = NOT APPLICABLE

SITES SUBJECT TO ARTICLE 5 STANDARDS

CLOSED SITES	V	A	NA
CLOSURE PLAN			
21880 - CERTIFICATION OF CLOSURE			
21890 - REVISION OF APPROVED PLANS FOR GPC MAINTENANCE			
RECORDS			
21130 - EMERGENCY RESPONSE PLAN			
21170 - RECORDING			
21200 - CHANGE OF OWNERSHIP			
SECURITY			
21135 - SECURITY AT CLOSED SITES			
GRADING			
21142 - FINAL GRADING			
21146 - SLOPE STABILITY			
DRAINAGE AND EROSION CONTROL			
21150 - DRAINAGE/EROSION CONTROL			
MONITORING AND CONTROL SYSTEMS			
21160 - LF GAS CONTROL/LEACHATE CONTACT			
GAS MONITORING AND CONTROL SYSTEMS			
20918 - EXEMPTIONS			
20919 - GAS CONTROLS	V		
20921 - GAS MONITORING/CONTROL			
20923 - MONITORING			

GAS MONITORING AND CONTROL SYSTEMS	V	A	NA
20935 - PERIMETER MONITORING NETWORK			
20931 - STRUCTURE MONITORING			
20932 - MONITORED PARAMETERS			
20933 - MONITORING FREQUENCY			
20934 - REPORTING			
20937 - CONTROL			
POSTCLOSURE			
21180 - POSTCLOSURE MAINTENANCE			
21190 - POSTCLOSURE LAND USE			
OTHER			
SITES UNDERGOING CLOSURE			
21110 - TIME FRAMES FOR CLOSURE			
21137 - STRUCTURE REMOVAL			
21140 - FINAL COVER			
OTHER			

COMMENTS (USE BACK FOR ADDITIONAL SPACE)

Landfill gas (LFG) migration monitoring was conducted during the inspection using a Landtec GA-90. During the monitoring, LFG was detected that exceeded the regulatory limit of 5% by volume. This is the second month in a row that probe Q @ 40' has readings above the limit.

The following readings (% by volume LFG) were obtained (**probes readings exceeding the limit are in bold**):

Probe E: 1.2

Probe G: 3.3

Probe Q @ 10': 5.8

Probe Q @ 40': 14.5

I notified Robert McAllister by telephone of the violations. A fax of this inspection report was also sent.

The permittee should take appropriate measures with the LFG system to control LFG from migrating out of its perimeter.

DISTRIBUTION: TOP - CIWMB MIDDLE - EA BOTTOM - OPERATOR

Exhibit 2.2.5

CONFIDENTIAL

8309 TAC *8309 Tujunga Avenue Corporation*

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

Feb. 15, 2002

Sepid Associates
Methane Specialists
680 Walnut Street
Moorpark, Ca. 93021

Re: Correction on probe readings 10/16/01, 11/08/01, 11/30/01 and 12/06/01

Mr. Alex Fentch:

Based on 10/16/01 Penrose plant operation. It has been down from 0800 AM to 1230 PM for SWP working on transformer maintenance. So there was no well adjustments on that day.

Gas well adjustments were started on 11/11/01 to increase suction pressure on wells W2 and W3 for clearing up probe reads on "Q" and "R".

Kept monitoring those probes on daily basis. probes "Q" and "R" were completely cleared up on 12/11/01.

VICTOR LOM
Field Foreman

CONFIDENTIA

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 12/03/01

METHANE MONITORING INSPECTION REPORT

CLIMATE:

BRIGHT	CLOUDY	<32° F	71°–85°	STILL	DRY
CLEAR	OVERCAST	32°–55°	86°–100° F	BREEZY	MODERATE
FOG	RAIN	56°–70°	>100° F	WIND	HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☒ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED 1
- ☐ INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: - COLD TEMP - RAIN YESTERDAY - USED GASTECH ON 9-5-01
NPL-204 last calibrated by J.G. TUCKER & SON. PROBES WERE TESTED AT APPROXIMATELY 8:30 AM TO 9:00 PM -

E = ND G = 2% Q-40' = 16%
Q-10' = 0%
Q-120' = 0%
Q-80' = 0%

PROBES TESTED AS A FOLLOW UP TO REPORT FROM GEORGE PAYBA LEA RESULTS ON FRIDAY NOV. 30.

☒ FOLLOW UP INSPECTION(S) REQUIRED. _____

Robert McAllister
INSPECTOR

PRINCIPAL

G:\Job\J152-6\Moninsp.dwg July 23 1999 2:58pm By:eric

Exhibit 2.2.6: Sheet 2 of 4

CONFIDENTIA

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 12/05/01

METHANE MONITORING INSPECTION REPORT

CLIMATE:

BRIGHT	CLOUDY	<32° F	71°–85°	STILL	DRY
CLEAR	OVERCAST	33°–55°	86°–100° F	BREEZY	MODERATE
FOG	RAIN	56°–70°	>100° F	WIND	HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☒ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED _____
- ☐ INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: TESTED PROBES WITH GAS TECH NPL-204, LAST CALIBRATED BY J.G. TUCKER & SON 09-05-01.

4:15 pm- TESTED Q-10'- ND, Q 80'-ND, Q 40'-ND,

4:21 pm- N - GREEN ND, YELLOW ND, RED ND, ORANGE ND

4:25pm- G = ND

4:31 - N = ND -

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

INSPECTOR _____ PRINCIPAL _____

G:\Job\J152-6\MonInsp.dwg July 23 1999 2:58pm By:eric

Exhibit 2.2.6: Sheet 3 of 4

CONFIDENTIA

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 882-0000
FAX: (818) 707-3012 (805) 882-0001

JOB NAME: PENROSE LANDFILL

JOB No. J-152-6
DATE 12/06/01

METHANE MONITORING INSPECTION REPORT

CLIMATE:

BRIGHT	CLOUDY	<32° F	71°–85°	STILL	DRY
CLEAR	OVERCAST	33°–55°	86°–100° F	BREEZY	MODERATE
FOG	RAIN	56°–70°	>100° F	WIND	HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☒ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED _____
- ☐ INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: USEN GASTECH NPL-204 - CALIBRATED BY J.G TUCKER & SON - 9-5-01.

TESTED THE FOLLOWING PROBES

Q- 10' - 8:42 AM - ND
Q- 40' - 8:44 AM - ND
Q- 80' - 8:45 AM - ND
Q- 120' - 8:47 AM - ND

PROBE N - 9:20 AM ALL ND
- GREEN - ND
- YELLOW - ND
- RED - ND
- ORANGE - ND

#11 - 8:54.36 AM - ND

10 9:23 AM - ND

R- 80' - 8:56 AM - ND
R- 40' - 8:58 AM - ND
R- 10' - 9:00 AM - ND
R- 120' - 9:01 AM - ND

WITH ALEX FEUCHT & VICTOR FROM OGDEN @

F- 9:09 AM - ND

Q- 40' - 2:00pm - 5%
&
R- 40' - 2:30pm - 10%

G - 9:13 AM - ND

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

Robert Sepich
INSPECTOR

PRINCIPAL

G:\Job\J152-6\Moninsp.dwg July 23 1999 2:58pm By:eric

Exhibit 2.2.6: Sheet 4 of 4

CONFIDENTIAL

J481

8309 Tujunga Avenue Corp. – Penrose
8301 Tujunga Avenue
Sun Valley, California 91352
Tel: (323) 875-1095 Fax: (818) 768-6039

JOB NAME: PENROSE LANDFILL

DATE: Th 12/6/01

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: Q.T.F.

TIME: 1040 – 1400 hr

INSTRUMENT: RKI Eagle

PARAMETER: % Volume

REMARKS: Checked RKI Eagle w/ 2.5% CH4 at 0830 hr 12/6: read 49% LEL. ND = non detect at LEL scale. (V) = vacuum (very hard draw = likely plugged) (hard draw = probable slight flow after evacuation)

PROBE #	% Vol.	
1	ND	
2 A	ND	
3 A	ND	
4 A	ND	
5 A	ND	
6 A	ND	
7 A	ND	
8 A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	ND	
21 A	ND	
22	ND	
23	ND	
24	ND	
25	ND	
26	ND	

PROBE #		% Vol.	REMARKS
A-1		ND	
B		ND	
C	GREEN-21'	ND	
C	YELLOW-41'	ND	hard draw
C	ORANGE-61'	X	missing
C	RED - 81'	ND (V)	very hard draw
D		ND	
E		ND	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	ND	
L	YELLOW-65'	ND (V)	very hard draw
L	ORANGE-85'	ND (V)	"
L	RED - 105'	ND	hard draw
N	GREEN-22'	ND	
N	YELLOW-45'	ND	
N	ORANGE-68'	ND	
N	RED - 90'	ND	
P	10'	ND	
P	40'	ND	
P	80'	ND	
P-1	120'	ND (V)	
Q	10'	ND	
Q	40'	6	
Q	75'	ND	
Q-1	120'	ND	
Q-1	158'	ND	

		% Vol.	REMARKS
R	10'	ND	
R	40'	10	
R	80'	ND	
R	120'	ND	
S	10'	ND	
S	40'	ND	
S	80'	ND	
S	120'	ND	
T	10'	ND	
T	40'	ND	
T	73'	ND (V)	very hard draw
T-1	72'	ND	
U	10'	ND	
U	37'	ND	
U	68'	ND	
V	10'	ND	
V	40'	ND	
V	73'	ND	
W	10'	ND	
W	40'	ND	
W	80'	ND	
W	120'	ND	
W	158'	ND	

ANY PROBE ≥ 5% CALL (323) 875-1095

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, 93021 TEL (818)707-3036 FAX (818)707-3012

Exhibit 2.2.7

CONFIDENTIAL

8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

Feb. 15, 2002

Sepid Associates
Methane Specialists
680 Walnut Street
Moorpark, Ca. 93021

Re: Correction on probe readings 10/16/01, 11/08/01, 11/30/01 and 12/06/01

Mr. Alex Fentch:

Based on 10/16/01 Penrose plant operation. It has been down from 0800 AM to 1230 PM for DWP working on transformer maintenance. So there was no well adjustments on that day.

Gas well adjustments were started on 11/11/01 to increase suction pressure on wells W2 and W3 for clearing up probe reads on "Q" and "R".

Kept monitoring those probes on daily basis. probes "Q" and "R" were completely cleared up on 12/11/01.

VICTOR LAM
Field Foreman

Exhibit 2.2.8: Sheet 1 of 5

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST. MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 882-0000
FAX: (818) 707-3012 (805) 882-0001

JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 12/07/01

METHANE MONITORING INSPECTION REPORT

CLIMATE:

(BRIGHT)	CLOUDY	<32° F	(71-85°)	STILL	DRY
(CLEAR)	OVERCAST	33°-55°	86°-100° F	BREEZY	MODERATE
FOG	RAIN	56°-70°	>100° F	(WIND)	HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☒ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED 1
- ☐ INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: - WINDY - INSPECTOR USED GASTEC NPL-204 last CALIBRATER BY J.G. TUCKER & SON 09-05-01.

INSPECTOR TEST THE FOLLOWING PROBES -

1:10 PM — Q-40'-5%
Q-10'-ND
Q-80'-ND

1:23 PM - R-10'-ND
R-40'-ND
R-80'-ND
R-120'-ND

1:39 pm - E - ND

2:00 pm - F - ND

2:05 PM - N-GREEN-ND RED-ND
-YELLOW-ND ORANGE-ND

* ALSO TESTED WITH GEORGE FROM LEA - @ 4:45pm - 5:30PM
N-ND ALL
G-ND
Q-ND ALL
R-ND ALL
E-ND

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

INSPECTOR _____ PRINCIPAL _____

G:\Job\J152-6\MonInsp.dwg July 23 1999 2:58pm By:eric

Exhibit 2.2.8: Sheet 2 of 5

CONFIDENTIAI

STATE OF CALIFORNIA
CIWMB (REV.)

Closed Facility Inspection Report

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Enforcement Agency: City of Los Angeles

Page 1 of 1

FACILITY FILE NUMBER	PROGRAM CODE / LOCAL ID NUMBER	INSPECTION DATE (MM DD YY)	TIME IN / TIME OUT	INSPECTION TIME
19-AR-0004	L	12/07/01		

FACILITY NAME: Penrose Landfill

RECEIVED BY (OPERATOR): Mail

FACILITY LOCATION: 8300 Tujunga Avenue, Sun Valley, CA 91352

OWNER:

INSPECTOR: George M. Paybe

INSPECTOR SIGNATURE: George M. Paybe

ALSO PRESENT: Mike McAllister, Bob McAllister, LA By-Products

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 30 OF THE PUBLIC RESOURCES CODE (PRC) AND TITLE 27 CALIFORNIA CODE OF REGULATION (CCR).

THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING: V = VIOLATION A = AREA OF CONCERN NA = NOT APPLICABLE

SITES SUBJECT TO ARTICLE 2 STANDARDS

CLOSED SITES	V	A	NA
CLOSURE PLANS			
21880 - CERTIFICATION OF CLOSURE			
21890 - REVISION OF APPROVED PLANS FOR GAS MAINTENANCE			
RECORDS			
21130 - EMERGENCY RESPONSE PLAN			
21170 - RECORDING			
21200 - CHANGE OF OWNERSHIP			
SECURITY			
21135 - SECURITY AT CLOSED SITES			
GRADING			
21142 - FINAL GRADING			
21145 - SLOPE STABILITY			
DRAINAGE AND EROSION CONTROL			
21150 - DRAINAGE/EROSION CONTROL			
MONITORING AND CONTROL SYSTEMS			
21160 - LF GAS CONTROL/LEACHATE CONTACT			
GAS MONITORING AND CONTROL SYSTEMS			
20918 - EXEMPTIONS			
20919 - GAS CONTROLS			
20921 - GAS MONITORING/CONTROL			
20923 - MONITORING			

GAS MONITORING AND CONTROL SYSTEMS	V	A	NA
20920 - PERIMETER MONITORING NETWORK			
20931 - STRUCTURE MONITORING			
20932 - MONITORED PARAMETERS			
20933 - MONITORING FREQUENCY			
20934 - REPORTING			
20937 - CONTROL			
POSTCLOSURE			
21190 - POSTCLOSURE MAINTENANCE			
21180 - POSTCLOSURE LAND USE			
OTHER			
SITES UNDERGOING CLOSURE			
21110 - TIME FRAMES FOR CLOSURE			
21127 - STRUCTURE REMOVAL			
21140 - FINAL COVER			
OTHER			

COMMENTS (USE BACK FOR ADDITIONAL SPACE)

Gas monitoring was conducted on the permittee's landfill migration probes located along Strathern St. Monitoring was conducted using a field calibrated Landtec GA-90. LA By-Products personnel, Mike and Bob McAllister were onsite to accompany me during the inspection. Probes S, G R, N, G-1, Q, F, E, F-1, and F were monitored. All probes monitored read non detect except at R@40' which had a 0.1 % by volume for landfill gas. No violations or areas of concern were observed during the inspection.

The previous month's gas violations at probes Q@40' & Q@10' have been addressed.

DISTRIBUTION: TOP - CWMB MIDDLE - EA BOTTOM - OPERATOR

Exhibit 2.2.8: Sheet 3 of 5

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 12/10/01

METHANE MONITORING INSPECTION REPORT

CLIMATE:

BRIGHT	CLOUDY	<32° F	71°–85°	STILL
CLEAR	OVERCAST	33°–55°	86°–100° F	BREEZY
FOG	RAIN	56°–70°	>100° F	WIND

DRY	
MODERATE	
HUMID	

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☒ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED 1
- ☐ INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: COLD TEMP. HIGH THICK CLOUD COVER. ~~CONTRACTOR~~

INSPECTOR TESTED THE FOLLOWING PROBES W/ RESULTS
ALL TESTS DONE IN A.M. 12/10/01

#12 7:14.06 – ND
R-40' 7:17.45 – ND
R-80' 7:16.32 – ND
R-10' 7:18.40 – ND
R-120' 7:19.26 – ND

#13 – 7:21.24 – ND
S-40' – 7:23.33 – ND
S-10' – 7:24.33 – ND
S-80' – 7:25.21 – ND
S-120' – 7:26.17 – ND

#11 – 7:31.34 ND
F – 7:46.50 ND
G – 7:50.09 1.8%

N – GREEN – 7:55.18 – ND
N – ORANGE – 7:54.08 – ND
N – YELLOW – 7:56.01 – ND
N – RED – 7:56.54 – ND

Q-10' – 7:07.10 – ND
Q-80' – 7:08.34 – ND
Q-40' – ~~7:08.3~~ 7:09.32 – ND
Q-120' – 7:10.39 – ND
Q-158' – 7:12.16 – ND

USED GASTEC INSTRUMENT
NPL-204 – LAST
CALIBRATED ON 9-5-01
by J.G. TUCKER & SON

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

Robert M. Elliott
INSPECTOR

PRINCIPAL

G:\Job\J152-6\MonInsp.dwg July 23 1999 2:58pm By:eric

Exhibit 2.2.8: Sheet 4 of 5

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 12/13/01

METHANE MONITORING INSPECTION REPORT

CLIMATE:

BRIGHT	CLOUDY	<32° F	71°–85°	STILL	DRY
CLEAR	OVERCAST	33°–55°	86°–100° F	BREEZY	MODERATE
FOG	RAIN	56°–70°	>100° F	WIND	HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☒ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED 1
- ☐ INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: USED GASTECH NPL-204, last calibrated by J.G. TUCKER & SON 9-5-01. ALL PROBES TESTED ON 12-13-01

PROBE Q-10' (2:24pm) = ND
Q-40' (2:25pm) = ND
Q-80' (2:26pm) = ND
Q-120' (2:27pm) = ND
Q-150' (2:28pm) = ND

PROBE #12 (2:30pm) = ND

PROBE R-80' (2:32pm) = ND
R-40' (2:33pm) = ND
R-10' (2:35pm) = ND
R-120' (2:36pm) = ND

PROBE U-168' (2:39pm) = ND
U-37' (2:41pm) = ND
U-10' (2:42pm) = ND

PROBE V-80' - (2:45pm) ND
V-40' - (2:47pm) ND
V-10' - (2:48pm) ND

PROBE P-10' (2:56pm) ND
P-40' (2:58pm) ND
P-80' (2:59pm) ND

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

INSPECTOR _____ PRINCIPAL _____

G:\Job\J152-6\MonInsp.dwg July 23 1999 2:58pm By:eric

Exhibit 2.2.8: Sheet 5 of 5

CONFIDENTIA

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	12/18/01 12/18/01 12/18/01
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	01-12-0957 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
AAS NW#1	ND	1
AAS SE#1	ND	1
R 40'	ND	1
TSI	120	5
ISS A-3	ND	1
Q 40'	ND	1
ISS H-2	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
01-12-0930-1 (Duplicate)	4.98	5.50	10	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-75

CONFIDENTIA

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/18/0
Work Order No: 01-12-095
Preparation: N/
Method: EPA TO-14

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS NW#1	01-12-0957-1	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.9	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.0	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	1.5	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.8	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

AAS SE#1	01-12-0957-2	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.82	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	1.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.9	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

R 40'	01-12-0957-3	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	1.2	0.5	1		ppb (v/v)	p/m-Xylene	5.7	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	2.0	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	16	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-750

CONFIDENTIA

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/18/0
Work Order No: 01-12-095
Preparation: N/
Method: EPA TO-14

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	01-12-0957-4	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	310	63	125		ppb (v/v)	Trichloroethene	110	63	125		ppb (v/v)
1,1-Dichloroethene	ND	63	125		ppb (v/v)	1,2-Dibromoethane	ND	63	125		ppb (v/v)
Methylene Chloride	280	250	125		ppb (v/v)	Tetrachloroethene	110	63	125		ppb (v/v)
1,1-Dichloroethane	ND	63	125		ppb (v/v)	Chlorobenzene	950	63	125		ppb (v/v)
Chloroform	ND	63	125		ppb (v/v)	p/m-Xylene	11000	130	125		ppb (v/v)
1,2-Dichloroethane	ND	63	125		ppb (v/v)	o-Xylene	5000	63	125		ppb (v/v)
1,1,1-Trichloroethane	ND	63	125		ppb (v/v)	Benzyl Chloride	ND	63	125		ppb (v/v)
Benzene	1700	63	125		ppb (v/v)	1,3-Dichlorobenzene	ND	63	125		ppb (v/v)
Carbon Tetrachloride	ND	63	125		ppb (v/v)	1,4-Dichlorobenzene	1100	63	125		ppb (v/v)
Toluene	11000	250	500	D	ppb (v/v)	1,2-Dichlorobenzene	220	63	125		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS A-3	01-12-0957-5	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	4.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.6	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	15	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q 40	01-12-0957-6	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	1.0	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	4.6	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.9	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	9.2	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Exhibit 2.3: Sheet 3 0f 3

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EXHIBIT 3

PENROSE LANDFILL - Fourth Quarter 2001

Integrated Landfill Surface Sampling (ILSS) Laboratory Results

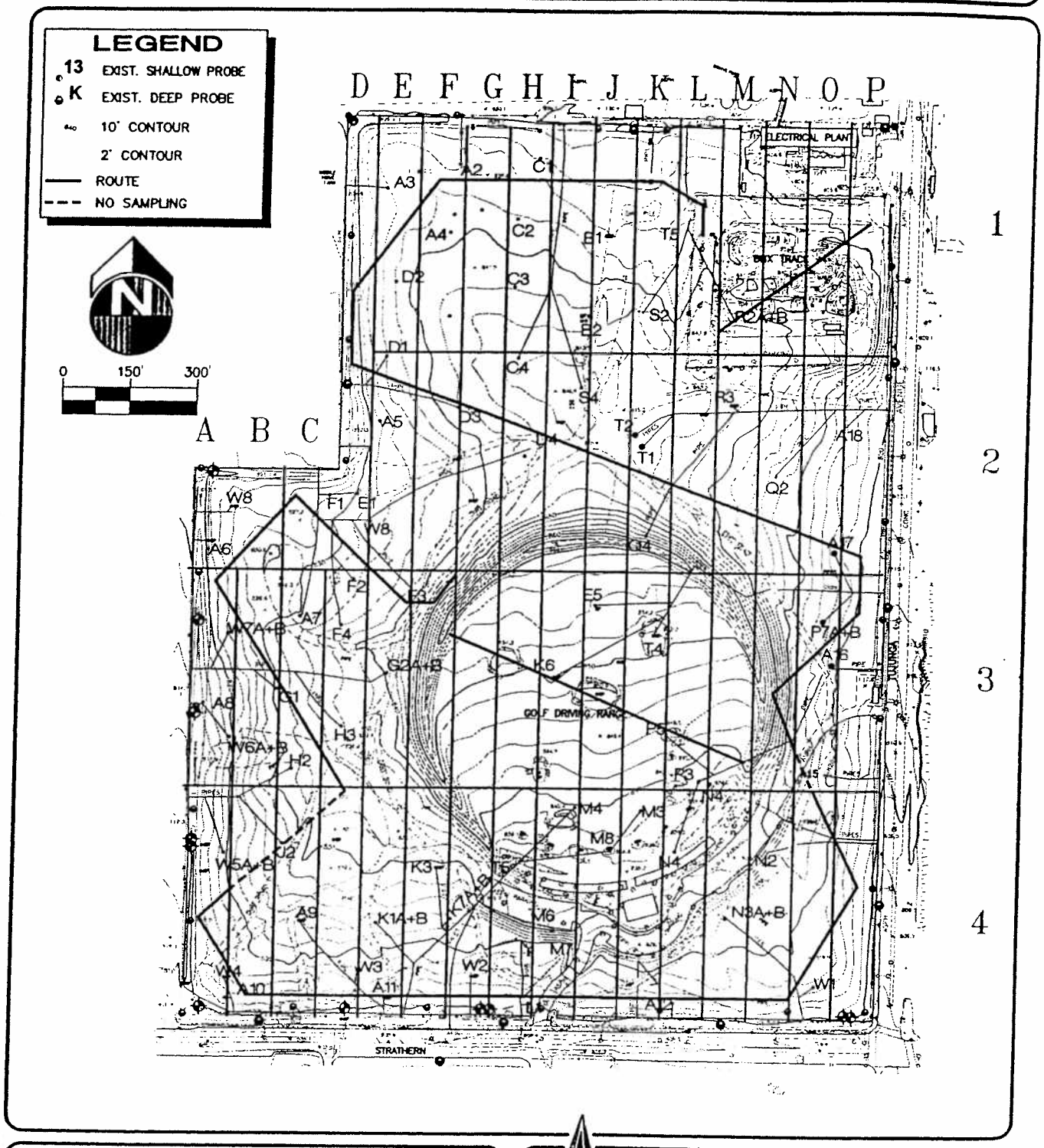
Exhibit 3.1: ILSS Traverse Map (Route 3)

Exhibit 3.2: ILSS TAC Laboratory Results - December 18, 2001

Hydrogen Sulfide and TO-14A Analyses

CONFIDENTIAL

PENROSE LANDFILL
INTEGRATED SAMPLING ROUTE 3



SEPICH ASSOCIATES, Inc.
680 WALNUT ST.
MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001
CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
444 Irving Drive Suite #101 Burbank CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

4-24-01 RLM

Exhibit 3.1

SHEET ___ OF ___

000439

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	12/18/01 12/18/01 12/18/01
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	01-12-0957 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
AAS NW#1	ND	1
AAS SE#1	ND	1
R 40'	ND	1
TSI	120	5
ISS A-3	ND	1
Q 40'	ND	1
ISS H-2	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
01-12-0930-1 (Duplicate)	4.98	5.50	10	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Exhibit 3.2: Sheet 1 of 3

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/18/0
Work Order No: 01-12-095
Preparation: N/
Method: EPA TO-14

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	01-12-0957-4	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	310	63	125		ppb (v/v)	Trichloroethene	110	63	125		ppb (v/v)
1,1-Dichloroethene	ND	63	125		ppb (v/v)	1,2-Dibromoethane	ND	63	125		ppb (v/v)
Methylene Chloride	280	250	125		ppb (v/v)	Tetrachloroethene	110	63	125		ppb (v/v)
1,1-Dichloroethane	ND	63	125		ppb (v/v)	Chlorobenzene	950	63	125		ppb (v/v)
Chloroform	ND	63	125		ppb (v/v)	p/m-Xylene	11000	130	125		ppb (v/v)
1,2-Dichloroethane	ND	63	125		ppb (v/v)	o-Xylene	5000	63	125		ppb (v/v)
1,1,1-Trichloroethane	ND	63	125		ppb (v/v)	Benzyl Chloride	ND	63	125		ppb (v/v)
Benzene	1700	63	125		ppb (v/v)	1,3-Dichlorobenzene	ND	63	125		ppb (v/v)
Carbon Tetrachloride	ND	63	125		ppb (v/v)	1,4-Dichlorobenzene	1100	63	125		ppb (v/v)
Toluene	11000	250	500	D	ppb (v/v)	1,2-Dichlorobenzene	220	63	125		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS A-3	01-12-0957-5	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	4.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.6	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	15	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Q 40'	01-12-0957-6	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	1.0	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	4.6	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.9	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	9.2	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/18/0
Work Order No: 01-12-095
Preparation: N/
Method: EPA TO-14/

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS H-2	01-12-0957-7	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.54	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	5.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.9	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.4	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	11	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,542	N/A	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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EXHIBIT 4

PENROSE LANDFILL - Fourth Quarter 2001

Ambient Air Sampling (AAS) TAC Laboratory Results

NOTE: The Climatronics, Electronic Weather Station (EWS), used at the site, was equipped to continuously record wind speed, temperature, and wind direction on a strip chart. The EWS uses a 3 cup wind speed assembly, with a range of 0 to 100 mph, an accuracy of ±0.025 mph (chart resolution of ±0.5 mph), and a threshold of 0.75 mph; and a wind direction vane, with a range of 0 to 540 degrees azimuth, with an accuracy of ±1.5%.

The EWS was set by orienting the cross bar east-west with a compass according to the instructions. The true cardinal directions have been adjusted for the 14° magnetic declination present in this region.

AAS Laboratory Results

AAS Toxic Air Contaminants (TAC) - December 17 and 18, 2001

Hydrogen Sulfide and TO-14A Analyses

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	12/18/01
444 Irving Drive, Suite 101	Date Received:	12/18/01
Burbank, CA 91504	Date Analyzed:	12/18/01
	Work Order No.:	01-12-0957
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
AAS NW#1	ND	1
AAS SE#1	ND	1
R 40'	ND	1
TSI	120	5
ISS A-3	ND	1
Q 40'	ND	1
ISS H-2	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
01-12-0930-1 (Duplicate)	4.98	5.50	10	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/18/0
Work Order No: 01-12-095
Preparation: N/
Method: EPA TO-14

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS NW#1	01-12-0957-1	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.9	1.0	1		ppb (v/v
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.0	0.5	1		ppb (v/v
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	1.5	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.8	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

AAS SE#1	01-12-0957-2	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.82	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	1.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.9	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

R 40'	01-12-0957-3	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	1.2	0.5	1		ppb (v/v)	p/m-Xylene	5.7	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	2.0	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	16	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

December 26, 2001

Robert McAllister
L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Subject: **Calscience Work Order No.: 01-12-1021**
Client Reference: Penrose Landfill / J152-6

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/19/01 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 8

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	12/18/01 12/19/01 12/19/01
Attn: Robert McAllister RE: Penrose Landfill / J152-6	Work Order No.: Method: Page 1 of 1	01-12-1021 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
AAS-NW#2	ND	1
AAS-SE#2	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
01-12-1006-2 (Duplicate)	26.4	29.3	10	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method GC/FPD

L.A. By Products/Sepich Associates, Inc.
Page 1 of 1

Work Order No.: 01-12-1021
Date Analyzed: 12/19/01

Laboratory Control Sample

Analyte	Conc. Added	Conc. Rec.	%REC	Control Limits
Hydrogen Sulfide	20.5	21.1	103	80 - 120

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 89

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	12/19/01
Work Order No:	01-12-1021
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill / J152-6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS-NW#2	01-12-1021-1	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Dichlorodifluoromethane	1.0	0.5	1		ppb (v/v)	1,1,2-Trichloroethane	ND	0.50	1		ppb (v/v)
Chloromethane	0.79	0.50	1		ppb (v/v)	Toluene	3.6	0.5	1		ppb (v/v)
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane	ND	2.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Bromomethane	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Chloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Trichlorofluoromethane	ND	0.50	1		ppb (v/v)	Ethylbenzene	0.52	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	p/m-Xylene	1.8	1.0	1		ppb (v/v)
Methylene Chloride	2.4	2.0	1		ppb (v/v)	Styrene	ND	1.0	1		ppb (v/v)
1,1,2-Trichloro-1,2,2-Trifluoroeth ane	ND	1.0	1		ppb (v/v)	1,1,2,2-Tetrachloroethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.65	0.50	1		ppb (v/v)
c-1,2-Dichloroethene	ND	0.50	1		ppb (v/v)	1,3,5-Trimethylbenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	1,2,4-Trimethylbenzene	0.91	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	0.83	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,2-Dichloropropane	ND	0.50	1		ppb (v/v)	1,2,4-Trichlorobenzene	ND	0.50	1		ppb (v/v)
c-1,3-Dichloropropene	ND	0.50	1		ppb (v/v)	Hexachloro-1,3-Butadiene	ND	0.50	1		ppb (v/v)
t-1,3-Dichloropropene	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-750

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/19/01
Work Order No: 01-12-1021
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill / J152-6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
AAS-SE#2	01-12-1021-2	12/18/01	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Dichlorodifluoromethane	0.97	0.50	1		ppb (v/v)	1,1,2-Trichloroethane	ND	0.50	1		ppb (v/v)
Chloromethane	0.82	0.50	1		ppb (v/v)	Toluene	8.5	0.5	1		ppb (v/v)
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane	ND	2.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Bromomethane	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Chloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Trichlorofluoromethane	ND	0.50	1		ppb (v/v)	Ethylbenzene	1.0	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.2	1.0	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Styrene	ND	1.0	1		ppb (v/v)
1,1,2-Trichloro-1,2,2-Trifluoroeth ane	ND	1.0	1		ppb (v/v)	1,1,2,2-Tetrachloroethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.78	0.50	1		ppb (v/v)
c-1,2-Dichloroethene	ND	0.50	1		ppb (v/v)	1,3,5-Trimethylbenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	1,2,4-Trimethylbenzene	0.73	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.1	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,2-Dichloropropane	ND	0.50	1		ppb (v/v)	1,2,4-Trichlorobenzene	ND	0.50	1		ppb (v/v)
c-1,3-Dichloropropene	ND	0.50	1		ppb (v/v)	Hexachloro-1,3-Butadiene	ND	0.50	1		ppb (v/v)
t-1,3-Dichloropropene	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/19/01
Work Order No: 01-12-1021
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill / J152-6

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	095-01-021-1,542	N/A	Air	N/A	12/19/01	V011219A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Dichlorodifluoromethane	ND	0.50	1		ppb (v/v)	1,1,2-Trichloroethane	ND	0.50	1		ppb (v/v)
Chloromethane	ND	0.50	1		ppb (v/v)	Toluene	ND	0.50	1		ppb (v/v)
1,2-Dichloro-1,1,2,2-Tetrafluoro ethane	ND	2.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Bromomethane	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Chloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Trichlorofluoromethane	ND	0.50	1		ppb (v/v)	Ethylbenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Styrene	ND	1.0	1		ppb (v/v)
1,1,2-Trichloro-1,2,2-Trifluoroeth ane	ND	1.0	1		ppb (v/v)	1,1,2,2-Tetrachloroethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
c-1,2-Dichloroethene	ND	0.50	1		ppb (v/v)	1,3,5-Trimethylbenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	1,2,4-Trimethylbenzene	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,2-Dichloropropane	ND	0.50	1		ppb (v/v)	1,2,4-Trichlorobenzene	ND	0.50	1		ppb (v/v)
c-1,3-Dichloropropene	ND	0.50	1		ppb (v/v)	Hexachloro-1,3-Butadiene	ND	0.50	1		ppb (v/v)
t-1,3-Dichloropropene	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 12/19/01
Work Order No: 01-12-102
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,542	Air	GC/MS V	N/A	12/19/01	V011219A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	103	97	60-140	6	0-30	
1,2-Dichloroethane	102	97	60-140	5	0-30	
Benzene	97	94	60-140	3	0-30	
Carbon Tetrachloride	110	102	60-140	8	0-30	
1,2-Dichloropropane	97	93	60-140	3	0-30	
c-1,3-Dichloropropene	108	102	60-140	5	0-30	
1,1,2-Trichloroethane	99	94	60-140	5	0-30	
Toluene	95	90	60-140	5	0-30	
Trichloroethene	95	92	60-140	4	0-30	
1,2-Dibromoethane	104	99	60-140	4	0-30	
Tetrachloroethene	96	91	60-140	5	0-30	
Ethylbenzene	97	92	60-140	5	0-30	
p/m-Xylene	105	99	60-140	6	0-30	
Bromoform	114	106	60-140	7	0-30	
o-Xylene	97	92	60-140	6	0-30	
1,4-Dichlorobenzene	104	99	60-140	5	0-30	
1,2-Dichlorobenzene	99	93	60-140	5	0-30	

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 1 2 - 1 0 2 1

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: LA Bg

DATE: 12/19/01

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
✓ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

EXHIBIT 4: Sheet 11 of 12

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JOB NAME	FILE (JOB#)	DATE
PENROSE LF (1021)	J152-6	12-18-01

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Alex T. Feucht

SEPICH ASSOCIATES

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: TO-14	ANALYSES REQUIRED: H_2S							REMARKS
	12/18	0845	G	1	AAS-NW #2	✓	✓							
	"	0900	G	1	AAS-SE #2	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Alex T. Feucht	Methane Spec	12/19/01	0720
RECEIVED BY:	[illegible]	CEL	12/19/01	1130
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:	[illegible]	CEL	12/19/01	1420
RECEIVED BY:	[illegible]	CEL	12/19/01	1420

EXHIBIT 4: Sheet 12 of 12

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METHANE SPECIALISTS
621 Via Alondra Suite 611
Camarillo CA, 93012
www.methanespecialists.com
TEL (805) 987-5356
FAX(805) 987-3968

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

May 9, 2002

RECEIVED
MAY 13 2002

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for First Quarter, 2002
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the thirty fourth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period January through March 2002. This is the eighth quarterly report submitted under the 1999 revised version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill.

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the first quarter of 2002. Two exceedances were detected from *subsurface refuse boundary probes* (SRBP).

1. Reporting Requirements.

Quarterly: South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).
- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2002 first quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on January 31, February 15 and 19, and March 25 and 26; for TOC (non-compliance monitoring for City of Los Angeles, Environmental Affairs Department (LEA) requirements on January 2, February 8, and March 1). Additional monitoring of selected probes (Probes D, E, F, G, J-1, N, P, Q, R, S, T, U, V, and W) requested by the City of Los Angeles LEA was performed on January 9, 16, and 23, 2002. The LEA Inspector monitored selected probes on January 29, February 22, and March 5, 2002.

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- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probes D and Q at 40' were sampled on March 26, 2002);
- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 4 traversed, sampled and monitored for TOC on March 21, 22, and 26; Grids J-1 and P-3 were sampled for TAC laboratory analyses on March 26, 2002);
- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on January 31 and March 5 Path A was monitored, and on February 27 Path B was monitored; and
- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (April 2, 2002; note that the generation plant was shut down on March 26 for annual flare testing, thus the later TSI TAC sampling date).

Record Keeping: Section (f)(1) of the Rule describes the record keeping requirements.

2. Control System - 8309 Tujunga Avenue Corp. (8309 TAC) - Penrose Power Plant.

Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at 8309 TAC's (formerly Ogden Power Pacific, Inc.) Plant at 8301 Tujunga Avenue, Sun Valley.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

3. Compliance Probe Monitoring Results.

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on January 31, February 15, and March 25, 2002. Results: There were no exceedances detected in compliance probes during these first quarter 2002 monitoring events. Two exceedances were detected in compliance probes during other monitoring events.

Exceedance 1): 2-8-02: 14% of volume at Probe D (during LEA compliance monitoring - results are presented in EXHIBIT 2.2.1).

Mitigation Measures: 2-11-02: according to the Rule, the first mitigation measure is to make extraction well adjustments (Wells D3A and D3B flow rate was increased - documentation is presented in EXHIBIT 2.2.2).

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Follow-up Results: 2-13-02: Follow-up monitoring results on February 13 at Probe D are presented in EXHIBIT 2.2.2 (0.4% of volume at Probe D).

Exceedance 2): 3-12-02: 5% of volume at Probe D (during LEA compliance monitoring - results are presented in EXHIBIT 2.2.3).

Mitigation Measures: 3-13-02: well adjustments were made at Wells D3A and D3B (monitoring results at Probe D were 0.5% of volume - documentation is presented in EXHIBIT 2.2.4).

Follow-up Results: 3-18 and 22-02: Follow-up monitoring results on March 18 and 22 at Probe D are presented in EXHIBIT 2.2.4 (ND, at % of volume scale).

4. **Compliance Probe Sampling Results**: Two probe TAC samples were collected on March 26, 2002 from Probes D and Q at 40'. The field TOC was 0.6% of volume for Probe D and non-detect for Probe Q at 40'. The lab TAC results (sample I.D.#s PPS-"D" and PPS-"Q"40') are included in EXHIBIT 2.3.

5. **Integrated Landfill Surface Sampling (ILSS) Results** (see traverse map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). All 59 samples registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results (samples ISS P3 from grid P-3 and ISS J7 from grid J-1) in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

6. **Instantaneous Landfill Surface Monitoring (ILSM) Results**.

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

7. **Toxic Air Contaminant Results**: As required by Section (f)(2)(B)(ii) of the Rule, first quarter 2002 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) — EXHIBIT 1;
- SRBPS (Samples PPS-"D" and PPS "Q"40') — EXHIBIT 2.3; and
- ILSS (Samples ISS P3 and ISS J7) — EXHIBIT 3.2.

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8. **Certification**: This quarterly report and certification is based upon Methane Specialists' understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California, that I am knowledgeable in the field of landfill gas migration control and monitoring, that the monitoring and sampling for landfill gas emissions and migration and the mitigation measures at Penrose Landfill for the First Quarter of 2002 were performed by me or persons under my direct supervision, and that I assume professional responsibility for the validity and accuracy of this report.

Sincerely,
Methane Specialists

LICENSED PROFESSIONAL ENGINEER
CHARLES N. McCORMICK
C 32534
JUNE 30, 2005
STATE OF CALIFORNIA

Charles N. McCormick, P. E.

Distribution: SCAQMD, Senior Engineering Manager, Toxics and Waste Management Branch
Los Angeles By-Products Company, Mr. Mike McAllister
City of Los Angeles, Local Enforcement Agency, Mr. George M. Payba
California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for First Quarter 2002

EXHIBIT 1 - Control Device Laboratory Results
TSI TAC Laboratory Results: H_2S and TO-14A Analyses - April 2, 2002
EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation
Exhibit 2.1: Probe Location Map
Exhibit 2.2: SRBPM Exceedances
Exhibit 2.2.1: Monitoring Results - Feb. 8, 2002
Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results - Feb. 11 and 13, 2002
Exhibit 2.2.3: Monitoring Results - March 12, 2002
Exhibit 2.2.4: Mitigation and Follow-up SRBPM Documents - March 13, 18, and 22, 2002
Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses - March 26, 2002
EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation
Exhibit 3.1: ILSS Traverse Map (Route 4)
Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - March 26, 2002

J152REPT.634

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EXHIBIT 1

PENROSE LANDFILL - First Quarter 2002

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results - April 2, 2002

Hydrogen Sulfide and TO-14A Analyses

Calscience Environmental Laboratories, Inc.

April 10, 2002

Robert McAllister
L.A. By Products/Methane Specialists
444 Irving Drive, Suite 101
Burbank, CA 91504-2407

Subject: **Calscience Work Order No.: 02-04-0104**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/2/02 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

EXHIBIT 1: Sheet 2 of 8

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists	Date Sampled:	04/02/02
444 Irving Drive, Suite 101	Date Received:	04/02/02
Burbank, CA 91504-2407	Date Analyzed:	04/03/02
	Work Order No.:	02-04-0104
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	101	5
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	101	100	1	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Methane Specialists
444 Irving Drive, Suite 101
Burbank, CA 91504-2407

Date Received:	04/02/02
Work Order No:	02-04-0104
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TBI	02-04-0164-1	04/02/02	Air	N/A	04/03/02	K020403A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	340	55	110		ppb (v/v)	Trichloroethene	110	55	110		ppb (v/v)
1,1-Dichloroethene	ND	55	110		ppb (v/v)	1,2-Dibromoethane	ND	55	110		ppb (v/v)
Methylene Chloride	ND	220	110		ppb (v/v)	Tetrachloroethene	100	55	110		ppb (v/v)
1,1-Dichloroethane	ND	55	110		ppb (v/v)	Chlorobenzene	880	55	110		ppb (v/v)
Chloroform	ND	55	110		ppb (v/v)	p/m-Xylene	6400	110	110		ppb (v/v)
1,2-Dichloroethane	ND	55	110		ppb (v/v)	o-Xylene	4000	55	110		ppb (v/v)
1,1,1-Trichloroethane	ND	55	110		ppb (v/v)	Benzyl Chloride	ND	55	110		ppb (v/v)
Benzene	1600	55	110		ppb (v/v)	1,3-Dichlorobenzene	ND	55	110		ppb (v/v)
Carbon Tetrachloride	ND	55	110		ppb (v/v)	1,4-Dichlorobenzene	610	55	110		ppb (v/v)
Toluene	8700	550	1100	D	ppb (v/v)	1,2-Dichlorobenzene	190	55	110		ppb (v/v)

Method Blank	[illegible]	N/A	Air	N/A	04/03/02	K020403A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Methane Specialists
444 Irving Drive, Suite 101
Burbank, CA 91504-2407

Project: Penrose Landfill

Date Received: 04/02/02
Work Order No: 02-04-0104
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
098-01-021-4,843	Air	GC/MS K	N/A	04/03/02	K020403A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	128	126	60-140	2	0-30	
1,2-Dichloroethane	127	121	60-140	5	0-30	
Benzene	107	97	60-140	9	0-30	
Carbon Tetrachloride	120	107	60-140	11	0-30	
1,2-Dichloropropane	103	94	60-140	9	0-30	
c-1,3-Dichloropropene	111	103	60-140	8	0-30	
1,1,2-Trichloroethane	109	102	60-140	7	0-30	
Toluene	102	100	60-140	2	0-30	
Trichloroethene	113	103	60-140	9	0-30	
1,2-Dibromoethane	111	108	60-140	3	0-30	
Tetrachloroethene	115	107	60-140	7	0-30	
Ethylbenzene	115	106	60-140	8	0-30	
p/m-Xylene	115	107	60-140	7	0-30	
Bromoform	131	122	60-140	7	0-30	
o-Xylene	113	106	60-140	7	0-30	
1,4-Dichlorobenzene	109	109	60-140	0	0-30	
1,2-Dichlorobenzene	125	123	60-140	2	0-30	

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GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 02-04-0104

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
ND	Not detected at indicated reporting limit.

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 02-0 4-0 7 0 4

Cooler _____ of _____

SAMPLE RECEIPT FORM

CLIENT: CA BY PRODUCT DATE: 9/02/03

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
✓ Ambient temperature. AIR Rmvd
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: VGN

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact): _____ Not Applicable (N/A): ✓

Initial: VGN

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation	✓		

Initial: RGA

COMMENTS:

EXHIBIT 1: Sheet 7 of 8

02-04-0104

BAG SAMPLE CUSTODY FORM

Project: FERROSE LANDFILL Date: 4/02/02

Bag (I.D.#)	TRI									
Condition Received in Lab*	F									

Analyses Requested: CH4 / H2S / CONE GRAPH SAME AS LAST QUARTER

Bags Prepared By: Robert [illegible] Time: 8:30 AM

Date: 4/02/02

Bags Taken Out By: Time:

Bags Taken to Lab By: [illegible] Time: 14:00

RELINQUISHED TO THE LAB BY [illegible] 4/2/02 18:15

Bags Received In Lab By: [illegible] Time: 4/2/02 1815

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

J:\SYTABL.606

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EXHIBIT 1: Sheet 8 of 8

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EXHIBIT 2

PENROSE LANDFILL - First Quarter 2002

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: Monitoring Results - February 8, 2002

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results - Feb. 11 and 13, 2002

Exhibit 2.2.3: Monitoring Results - March 12, 2002

Exhibit 2.2.4: Mitigation and Follow-up SRBPM Results – March 13, 18, and 22, 2002

Exhibit 2.3: SRBPS TAC Laboratory Results - March 26, 2002

Hydrogen Sulfide and TO-14A Analyses

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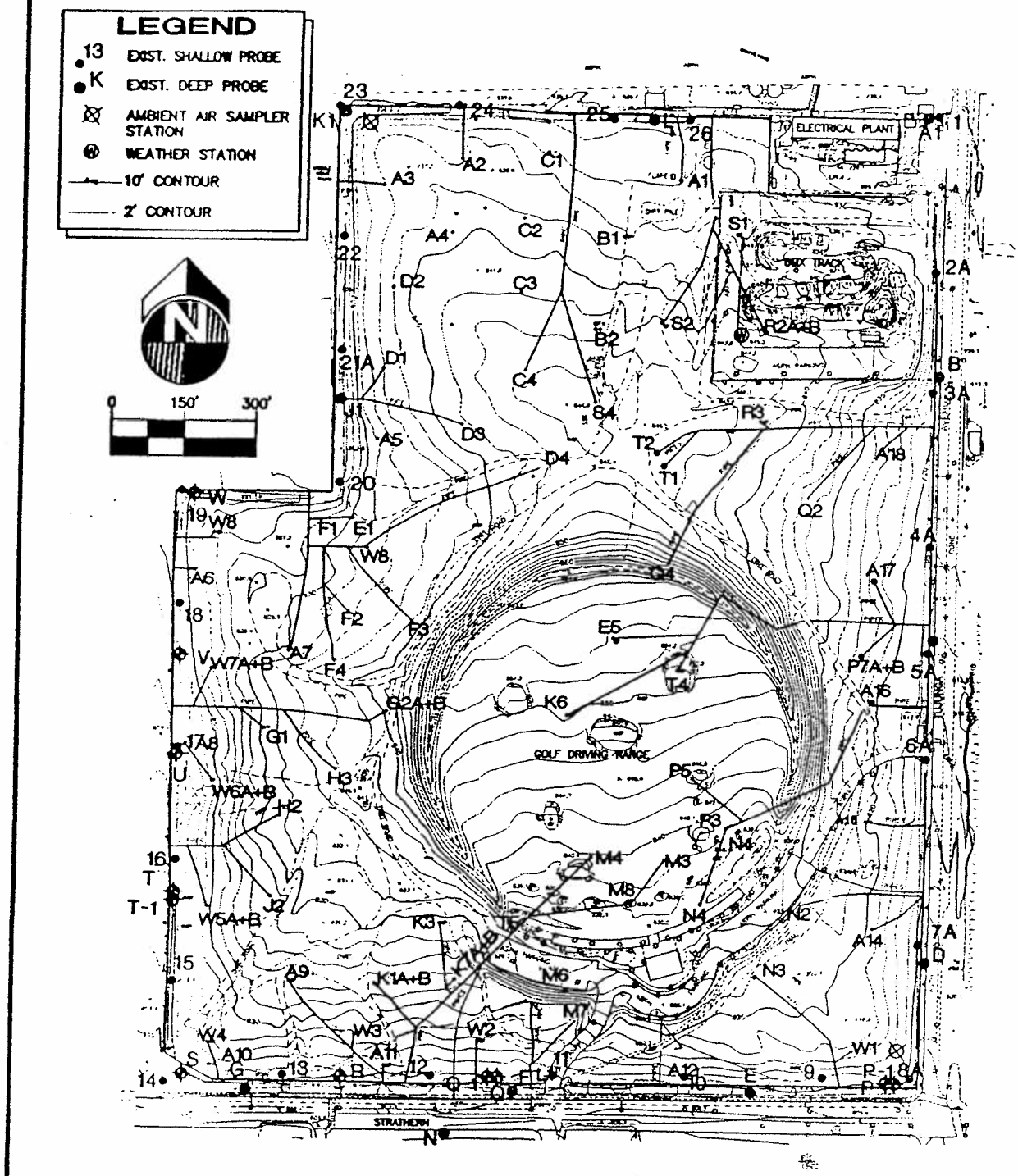
PENROSE LANDFILL MONITORING PROBE LOCATIONS

J152-6



1/21/02 SL

METHANE SPECIALISTS
621 Via Alondra Suite 610 & 611
Camarillo CA, 93012
TEL: (818) 707-3036
(805) 552-0000
(805 987-5356
FAX:(805) 987-3968

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

Exhibit 2.1

SHEET ___ OF ___

000468

CONFIDENTIAL

8309 Tujunga Avenue Corp. – Penrose
8301 Tunjunga Avenue
Sun Valley, California 91352
Tel: (323) 875-1095 Fax (818) 768-6039

JOB NAME: PENROSE LANDFILL

DATE: 2/8/0

JOB No.: JA81

GAS CONCENTRATIONS

INITIALS: SS

TIME: ~1130-1500

INSTRUMENT: RKI Eagle

PARAMETER: % Vol.

REMARKS: RKI Eagle checked wit 2.5% CH_4 calibrant at 1500 hr 2/7/0. read 4T% LEL. * RKI read 3% LEL ** RKI read 5% of LEL.

PROBE #		
1	ND	
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		

PROBE #			
	A-1	ND	
	B		
C	GREEN-21'		
C	YELLOW-41'		
C	ORANGE-61'	X	missing
C	RED - 81'	ND	
	D	14	
	E	ND	
	F		
	G		
	J-1		
	K-1		
L	GREEN-45'	0.15	*
L	YELLOW-65'	ND	
L	ORANGE-85'	ND	
L	RED - 105'	0.25	
N	GREEN-22'	ND	**
N	YELLOW-45'		
N	ORANGE-68'		
N	RED - 90'		
P	10'		
P	40'		
P	80'		
P-1	120'		
Q	10'		
Q	40'		
Q	75'		
Q-1	120'		
Q-1	158'		

R	10'	ND
R	40'	
R	80'	
R	120'	
S	10'	
S	40'	
S	80'	
S	120'	
T	10'	
T	40'	
T	73'	
T-1	72'	
U	10'	
U	37'	
U	68'	
V	10'	
V	40'	
V	73'	
W	10'	
W	40'	
W	80'	
W	120'	
W	158'	

METHANE SPECIALISTS
621 Via Alondra Suite 610 TEL (805)552-0000 FAX (805)987-3968

ANY PROBE ≥ 5% CALL (323) 875-1095

Exhibit 2.2.1

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8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

May 19, 02

Sepich Associates
Methane Specialists
621 Via Alondra, Ste. 610-1
Camarillo, Ca. 93012

Re: Correction probe reads on probe "D"

Mr. Alex Jentch:

Gas wells N3A and N3B were increased better vacuum on 02/11/02. Kept monitoring the following days. No gas was detected @ 1030 AM, 02/13/02.

3/13/02 the same vacuum settings were adjusted on gas wells N3A and N3B. Probe "D" was 0.5% @ 1300 3/15/02. It was all clear up on 3/18/02.

Victor Lam
Field foreman

Exhibit 2.2.2: Sheet 1 of 2

CONFIDENTIAI

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST. MOORPARK, CA 93021
TEL: (818) 707-8084 (805) 523-0000
FAX: (818) 707-8012 (805) 523-0001

JOB NAME: PENROSE LANDFILL

JOB NO. 7152-6
DATE 02/13/02

METHANE MONITORING INSPECTION REPORT

CLIMATE:

BRIGHT	CLOUDY	<32° F	71°–85°	STILL	DRY
CLEAR	OVERCAST	33°–55°	86°–100° F	BREEZY	MODERATE
FOG	RAIN	56°–70°	>100° F	WIND	HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☒ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED _____
- ☐ INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: THIS MONITOR. IS A FOLLOW UP TO THE EXCEEDANCE OF FEBRUARY 8. AT 2:00 PM, FEB 13 PROBE D WAS .4% CONTRACTOR USED GASTECH API-204.

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

INSPECTOR _____ PRINCIPAL _____

G:\Job\7152-6\Monitorp.dwg July 23 1999 2:56pm By:etc

Exhibit 2.2.2: Sheet 2 of 2

CONFIDENTIAL

Tujunga Avenue Corp. – Penrose
8301 Tujunga Avenue
Sun Valley, California 91352
Tel: (323) 876-1095 Fax: (818) 766-6039

JOB NAME: PENROSE LANDFILL

DATE: 3-12-0

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: S Singh

TIME: 1000 – 1200

INSTRUMENT: RKI Eagle

PARAMETER: % Vol. CH_4

REMARKS: Checked RKI Eagle 3-11-02 w/ 2.5% CH_4: read 45% LEL. Note that RKI Eagle reads 0-99% LEL (=4.95 Vol.) then converts to (5%) volume scale; thus L @ 45' read 2% LEL & Q @ 40' read 16% LEL

PROBE #			PROBE #						
1	ND		A-1	ND		R	10'	ND	
2 A	ND		B	ND			40'	ND	
3 A	ND		C GREEN-21'	ND			80'	ND	
4 A	ND		C YELLOW-41'	ND			120'	ND	
5 A	ND		C ORANGE-61'	X	lost	S	10'	ND	
6 A	ND		C RED - 81'	ND			40'	ND	
7 A	ND		D	5.0			80'	ND	
8 A	ND		E	ND			120'	ND	
9	ND		F	ND		T	10'	ND	
10	ND		G	ND			40'	ND	
11	ND		J-1	ND			73'	ND	
12	ND		K-1	ND		T-1	72'	ND	
13	ND		L GREEN-45'	0.1		U	10'	ND	
14	ND		L YELLOW-65'	ND			37'	ND	
15	ND		L ORANGE-85'	ND			68'	ND	
16	ND		L RED - 105'	ND		V	10'	ND	
17	ND		N GREEN-22'	ND			40'	ND	
18	ND		N YELLOW-45'	ND			73'	ND	
19	ND		N ORANGE-68'	ND		W	10'	ND	
20	ND		N RED - 90'	ND			40'	ND	
21 A	ND		P 10'	ND			80'	ND	
22	ND		P 40'	ND			120'	ND	
23	ND		P 80'	ND			158'	ND	
24	ND		P-1 120'	ND					
25	ND		Q 10'	ND					
26	ND		Q 40'	0.8					
			Q 75'	ND					
			Q-1 120'	ND					
			Q-1 158'	ND					

ANY PROBE ≥ 5% CALL (323) 875-1095

METHANE SPECIALISTS
621 Via Alondra Suite 610 TEL (805)552-0000 FAX (805)987-3968

Exhibit 2.2.3

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8309 TAC 8309 Tujunga Avenue Corporation

Subsidiary of Ogden Power Pacific, Inc.

8309 Tujunga Street
Sun Valley, CA 91352
Phone 323 875-1095
Fax 818 768-6039

May 19, 02

Sepich Associates
Methane Specialists
621 Via Alondra, Ste. 610-1
Camarillo, Ca. 93012

Re: Correction probe reads on probe "D"

Mr. Alex Jeutch:

Gas wells N3A and N3B were increased better vacuum on 02/11/02. Kept monitoring the following days. No gas was detected @ 1030 AM, 02/13/02.

3/13/02 the same vacuum settings were adjusted on gas wells N3A and N3B. Probe "D" was 0.5% @ 1300 3/15/02. It was all clear up on 3/18/02.

Victor Lam
Field Foreman

Exhibit 2.2.4: Sheet 1 of 2

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SEPICH ASSOCIATES
located in the walnut adobe
480 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-8084 (805) 583-0000
FAX: (818) 707-8012 (805) 583-0001

JOB NAME: PENROSE LANDFILL

JOB NO. 3152-6
DATE 03/22/02

METHANE MONITORING INSPECTION REPORT

CLIMATE:

BRIGHT	CLOUDY	<32° F	71°–85°	STILL	DRY
CLEAR	OVERCAST	33°–55°	86°–100° F	BREEZY	MODERATE
FOG	RAIN	56°–70°	>100° F	WIND	HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☐ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED _____
- ☐ INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: THIS IS A FOLLOW UP MONITOR TO THE EXCEEDANCE ON MARCH 12.
Contractor tested PROBE D at 1800 pm on MARCH 22, 2002 with a Result of ND. Contractor used GASTECH ap1-204.

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

Robert M. Elliott
INSPECTOR

PRINCIPAL

G:\Job\3152-6\Monthly.dwg July 23 1999 2:38pm By eric

Exhibit 2.2.4: Sheet 2 of 2

CONFIDENTIA

Calscience Environmental Laboratories, Inc.

April 02, 2002

Robert McAllister
L.A. By Products/Methane Specialists
444 Irving Drive, Suite 101
Burbank, CA 91504-2407

Subject: **Calscience Work Order No.: 02-03-1225**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/26/02 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-750

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products		Date Sampled:	03/26/02
444 Irving Drive, Suite 101		Date Received:	03/26/02
Burbank, CA 91504		Date Analyzed:	03/26/02
		Work Order No.:	02-03-1225
Attn: Robert McAllister		Method:	GC/FPD
RE: Penrose Landfill		Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
PPS "D"	ND	1
PPS "Q" 40'	ND	1
ISS P3	ND	1
ISS J7	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
02-03-1195-2 (Duplicate)	31.2	31.6	1	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 03/26/02
Work Order No: 02-03-1225
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPS "D"	02-03-1225-1	03/26/02	Air	N/A	03/26/02	K020326A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.5	5		ppb (v/v)	Trichloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethene	ND	2.5	5		ppb (v/v)	1,2-Dibromoethane	ND	2.5	5		ppb (v/v)
Methylene Chloride	ND	10	5		ppb (v/v)	Tetrachloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethane	6.2	2.5	5		ppb (v/v)	Chlorobenzene	6.8	2.5	5		ppb (v/v)
Chloroform	ND	2.5	5		ppb (v/v)	p/m-Xylene	ND	5.0	5		ppb (v/v)
1,2-Dichloroethane	ND	2.5	5		ppb (v/v)	o-Xylene	ND	2.5	5		ppb (v/v)
1,1,1-Trichloroethane	ND	2.5	5		ppb (v/v)	Benzyl Chloride	ND	2.5	5		ppb (v/v)
Benzene	5.0	2.5	5		ppb (v/v)	1,3-Dichlorobenzene	ND	2.5	5		ppb (v/v)
Carbon Tetrachloride	ND	2.5	5		ppb (v/v)	1,4-Dichlorobenzene	ND	2.5	5		ppb (v/v)
Toluene	3.5	2.5	5		ppb (v/v)	1,2-Dichlorobenzene	ND	2.5	5		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPS "Q" 40'	02-03-1225-2	03/26/02	Air	N/A	03/26/02	K020326A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	22	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.3	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.81	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	3.0	0.5	1		ppb (v/v)
Toluene	2.2	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS P3	02-03-1225-3	03/26/02	Air	N/A	03/27/02	K020327A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.0	4		ppb (v/v)	Trichloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethene	ND	2.0	4		ppb (v/v)	1,2-Dibromoethane	ND	2.0	4		ppb (v/v)
Methylene Chloride	ND	8.0	4		ppb (v/v)	Tetrachloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethane	ND	2.0	4		ppb (v/v)	Chlorobenzene	ND	2.0	4		ppb (v/v)
Chloroform	ND	2.0	4		ppb (v/v)	p/m-Xylene	ND	4.0	4		ppb (v/v)
1,2-Dichloroethane	ND	2.0	4		ppb (v/v)	o-Xylene	ND	2.0	4		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0	4		ppb (v/v)	Benzyl Chloride	ND	2.0	4		ppb (v/v)
Benzene	ND	2.0	4		ppb (v/v)	1,3-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Carbon Tetrachloride	ND	2.0	4		ppb (v/v)	1,4-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Toluene	3.2	2.0	4		ppb (v/v)	1,2-Dichlorobenzene	ND	2.0	4		ppb (v/v)

RL - Reporting Limit . DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 03/26/02
Work Order No: 02-03-1225
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS J7	02-03-1225-4	03/26/02	Air	N/A	03/27/02	K020326A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.80	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.89	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	2.3	0.5	1		ppb (v/v)
Toluene	4.4	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,634	N/A	Air	N/A	03/26/02	K020326A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,636	N/A	Air	N/A	03/27/02	K020327A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill

Date Received: 03/26/02
Work Order No: 02-03-1225
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,634	Air	GC/MS K	N/A	03/26/02	K020326A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	105	108	60-140	3	0-30	
1,2-Dichloroethane	100	98	60-140	2	0-30	
Benzene	100	93	60-140	7	0-30	
Carbon Tetrachloride	111	101	60-140	10	0-30	
1,2-Dichloropropane	101	93	60-140	8	0-30	
c-1,3-Dichloropropene	107	99	60-140	7	0-30	
1,1,2-Trichloroethane	105	97	60-140	8	0-30	
Toluene	97	92	60-140	5	0-30	
Trichloroethene	100	94	60-140	6	0-30	
1,2-Dibromoethane	104	98	60-140	6	0-30	
Tetrachloroethene	99	94	60-140	5	0-30	
Ethylbenzene	102	94	60-140	8	0-30	
p/m-Xylene	106	95	60-140	10	0-30	
Bromoform	114	104	60-140	9	0-30	
o-Xylene	107	96	60-140	11	0-30	
1,4-Dichlorobenzene	96	90	60-140	7	0-30	
1,2-Dichlorobenzene	110	105	60-140	4	0-30	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill

Date Received: 03/26/02
Work Order No: 02-03-1225
Preparation: N/A
Method: EPA TO-14A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,636	Air	GC/MS K	N/A	03/27/02	K020327A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	108	112	60-140	3	0-30	
1,2-Dichloroethane	101	106	60-140	5	0-30	
Benzene	99	100	60-140	1	0-30	
Carbon Tetrachloride	109	108	60-140	1	0-30	
1,2-Dichloropropane	100	100	60-140	0	0-30	
c-1,3-Dichloropropene	104	105	60-140	1	0-30	
1,1,2-Trichloroethane	102	104	60-140	1	0-30	
Toluene	100	100	60-140	1	0-30	
Trichloroethene	101	104	60-140	3	0-30	
1,2-Dibromoethane	105	106	60-140	1	0-30	
Tetrachloroethene	102	104	60-140	2	0-30	
Ethylbenzene	107	104	60-140	3	0-30	
p/m-Xylene	111	107	60-140	4	0-30	
Bromoform	122	118	60-140	3	0-30	
o-Xylene	108	104	60-140	4	0-30	
1,4-Dichlorobenzene	89	92	60-140	4	0-30	
1,2-Dichlorobenzene	102	107	60-140	4	0-30	

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 02-0 3 - 1 2 2 5

Cooler 0 of 0

SAMPLE RECEIPT FORM

CLIENT: LA Bioproducts

DATE: 3/26/02

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
✓ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

000431

Exhibit 2.3: Sheet 7 0f 8

03-1225

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 3/26/02

Bag (I.D.#)	PPS "D"	PPS "Q46"	ISS P3	ISS J7						
Condition Received in Lab*	F	F	F	F						

Analyses Requested: CORE GROUP - H_2S - CH_4 - (SAME AS LAST QUARTER)

Bags Prepared By: ROBERT McAllister Time: 11:55:47 AM

Date: 3/26/02

Bags Taken Out By: [signature] Time: 1325

Bags Taken to Lab By: [signature] Time: 1720

Bags Received In Lab By: [signature] Time: 1720

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

J152TABL.408

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000483

Exhibit 2.3: Sheet 8 of 8

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EXHIBIT 3

PENROSE LANDFILL - First Quarter 2002

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 4)

Exhibit 3.2: ILSS TAC Laboratory Results - March 26, 2002

Hydrogen Sulfide and TO-14A Analyses

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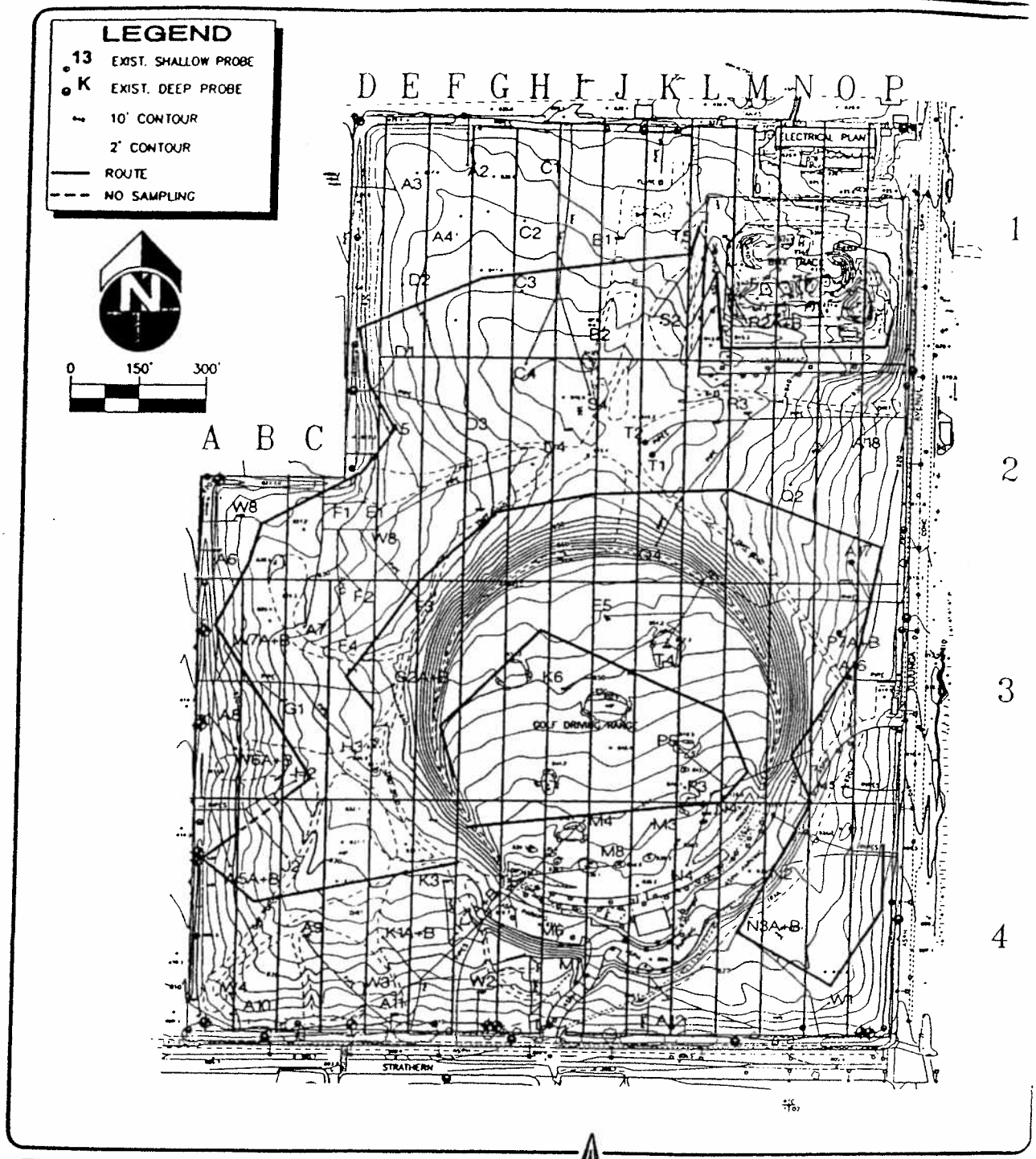
PENROSE LANDFILL
INTEGRATED SAMPLING ROUTE 4



4-24-01 RLM

SEPICH ASSOCIATES, Inc.
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MOORPARK, CA 93021
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CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
444 Irving Drive Suite #101 Burbank CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

SHEET ___ OF ___

Exhibit 3.1

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products		Date Sampled:	03/26/02
444 Irving Drive, Suite 101		Date Received:	03/26/02
Burbank, CA 91504		Date Analyzed:	03/26/02
		Work Order No.:	02-03-1225
Attn: Robert McAllister		Method:	GC/FPD
RE: Penrose Landfill		Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
PPS "D"	ND	1
PPS "Q" 40'	ND	1
ISS P3	ND	1
ISS J7	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
02-03-1195-2 (Duplicate)	31.2	31.6	1	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 03/26/02
Work Order No: 02-03-1225
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPS "D"	02-03-1225-1	03/26/02	Air	N/A	03/26/02	K020326A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.5	5		ppb (v/v)	Trichloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethene	ND	2.5	5		ppb (v/v)	1,2-Dibromoethane	ND	2.5	5		ppb (v/v)
Methylene Chloride	ND	10	5		ppb (v/v)	Tetrachloroethene	ND	2.5	5		ppb (v/v)
1,1-Dichloroethane	6.2	2.5	5		ppb (v/v)	Chlorobenzene	6.8	2.5	5		ppb (v/v)
Chloroform	ND	2.5	5		ppb (v/v)	p/m-Xylene	ND	5.0	5		ppb (v/v)
1,2-Dichloroethane	ND	2.5	5		ppb (v/v)	o-Xylene	ND	2.5	5		ppb (v/v)
1,1,1-Trichloroethane	ND	2.5	5		ppb (v/v)	Benzyl Chloride	ND	2.5	5		ppb (v/v)
Benzene	5.0	2.5	5		ppb (v/v)	1,3-Dichlorobenzene	ND	2.5	5		ppb (v/v)
Carbon Tetrachloride	ND	2.5	5		ppb (v/v)	1,4-Dichlorobenzene	ND	2.5	5		ppb (v/v)
Toluene	3.5	2.5	5		ppb (v/v)	1,2-Dichlorobenzene	ND	2.5	5		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPS "Q" 40'	02-03-1225-2	03/26/02	Air	N/A	03/26/02	K020326A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	22	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.3	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.81	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	3.0	0.5	1		ppb (v/v)
Toluene	2.2	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS P3	02-03-1225-3	03/26/02	Air	N/A	03/27/02	K020327A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.0	4		ppb (v/v)	Trichloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethene	ND	2.0	4		ppb (v/v)	1,2-Dibromoethane	ND	2.0	4		ppb (v/v)
Methylene Chloride	ND	8.0	4		ppb (v/v)	Tetrachloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethane	ND	2.0	4		ppb (v/v)	Chlorobenzene	ND	2.0	4		ppb (v/v)
Chloroform	ND	2.0	4		ppb (v/v)	p/m-Xylene	ND	4.0	4		ppb (v/v)
1,2-Dichloroethane	ND	2.0	4		ppb (v/v)	o-Xylene	ND	2.0	4		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0	4		ppb (v/v)	Benzyl Chloride	ND	2.0	4		ppb (v/v)
Benzene	ND	2.0	4		ppb (v/v)	1,3-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Carbon Tetrachloride	ND	2.0	4		ppb (v/v)	1,4-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Toluene	3.2	2.0	4		ppb (v/v)	1,2-Dichlorobenzene	ND	2.0	4		ppb (v/v)

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 03/26/02
Work Order No: 02-03-1225
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
ISS J7	02-03-1225-4	03/26/02	Air	N/A	03/27/02	K020326A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	2.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	0.80	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.89	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	2.3	0.5	1		ppb (v/v)
Toluene	4.4	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,634	N/A	Air	N/A	03/26/02	K020326A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

Method Blank	095-01-021-1,636	N/A	Air	N/A	03/27/02	K020327A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-750

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SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

TEL (818) 707-3036
(805) 552-0000
FAX (818) 707-3012
(805) 552-0001

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

October 16, 2001

RECEIVED
OCT 16 2001
L.A. BY-PROD. CO.

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Third Quarter, 2001
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the thirty second quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period July through September 2001. This is the sixth quarterly report submitted under the 1999 revised version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill.

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the third quarter of 2001. Two exceedances were detected from *subsurface refuse boundary probes* (SRBP).

1. Reporting Requirements.

Quarterly: South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).
- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2001 third quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on July 29, August 26, and September 25 and 26; for TOC (non-compliance monitoring for City of Los Angeles, Environmental Affairs Department (LEA) requirements on July 13, August 15, and September 13). The LEA Inspector monitored selected probes on July 27, August 22, and September 14, 2001.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probe D was sampled on September 26, 2001);
- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 1 traversed, sampled and monitored for TOC on September 25 and 26; Grids H-1 and I-1 were sampled for TAC laboratory analyses on September 26, 2001);
- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on July 30 and September 26 Path A was monitored, and on August 30 Path B was monitored; and
- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (September 26, 2001).

Record Keeping: Section (f)(1) of the Rule describes the record keeping requirements.

2. Control System - 8309 Tujunga Avenue Corp. (8309 TAC) - Penrose Power Plant.

Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at 8309 TAC's (formerly Ogden Power Pacific, Inc.) Plant at 8301 Tujunga Avenue, Sun Valley.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

3. Compliance Probe Monitoring Results.

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on July 29, August 26, and September 25 and 26, 2001. Results: There were no exceedances detected in compliance probes during these third quarter 2001 monitoring events. Two exceedances were detected in compliance probes during other monitoring events.

Exceedance 1): 7-13-01: 5% of volume at Probe J-1 (during LEA compliance monitoring - results are presented in EXHIBIT 2.2.1).

Mitigation Measures: 7-18-01: according to the Rule, the first mitigation measure is to make extraction well adjustments (Well D1 flow rate was increased - documentation is presented in EXHIBIT 2.2.2).

Follow-up Results: 7-23-01: Follow-up monitoring results on July 23 at Probe J-1 are presented in EXHIBIT 2.2.2 (0.5% of volume at Probe J-1).

Exceedance 2): 9-13-01: 20% of volume at Probe D (during LEA compliance monitoring - results are presented in EXHIBIT 2.2.3).

Mitigation Measures: 9-14-01: well adjustments were made at Wells N3 and A14 (documentation is presented in EXHIBIT 2.2.4).

Follow-up Results: 9-21-01: Follow-up monitoring results on September 21 at Probe D are presented in EXHIBIT 2.2.4 (ND, at % of volume scale).

4. **Compliance Probe Sampling Results**: A probe TAC sample was collected on September 26, 2001 from Probe D. The field TOC was 0.5% of volume. The lab results (sample I.D. PSS-D, included in EXHIBIT 2.3), indicated concentrations of 28 parts per billion (ppb) 1,1-dichloroethane, 17 ppb toluene, and 8 ppb chlorobenzene with all other TO-14A analytes (and H_2S) not detected at the reporting limits of the methods used.

5. **Integrated Landfill Surface Sampling (ILSS) Results** (see traverse map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). All 58 samples registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results (samples H-1 from grid H-1 and I-1 from grid I-1) in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

6. **Instantaneous Landfill Surface Monitoring (ILSM) Results.**

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

7. **Toxic Air Contaminant Results**: As required by Section (f)(2)(B)(ii) of the Rule, third quarter 2001 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) EXHIBIT 1;
- SRBPS (Sample PPS-D) EXHIBIT 2.3; and
- ILSS (Samples H-1 and I-1) EXHIBIT 3.2.

8. **Certification**: This quarterly report and certification is based upon Sepich Associates'/Methane Specialists' understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California, that I am knowledgeable in the field of landfill gas migration control and monitoring, that the monitoring and sampling for landfill gas emissions and migration and the mitigation measures at Penrose Landfill for the Third Quarter of 2001 were performed by me or persons under my direct supervision, and that I assume professional responsibility for the validity and accuracy of this report.

Sincerely,
Methane Specialists

John Sepich, P. E.

Distribution: SCAQMD, Senior Engineering Manager, Toxics and Waste Management Branch
Los Angeles By-Products Company, Mr. Mike McAllister
City of Los Angeles, Local Enforcement Agency, Mr. George M. Payba
California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for Third Quarter 2001

EXHIBIT 1 - Control Device Laboratory Results
TSI TAC Laboratory Results: H_2S and TO-14A Analyses - September 26, 2001
EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation
Exhibit 2.1: Probe Location Map
Exhibit 2.2: SRBPM Exceedances
Exhibit 2.2.1: Monitoring Results - July 13, 2001
Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results - July 18 and 23, 2001
Exhibit 2.2.3: Monitoring Results - September 13, 2001
Exhibit 2.2.4: Mitigation and Follow-up SRBPM Documents - Sept. 14 and 21, 2001
Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses - September 26, 2001
EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation
Exhibit 3.1: ILSS Traverse Map (Route 2)
Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - September 26, 2001

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EXHIBIT 1

PENROSE LANDFILL - Third Quarter 2001

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results - September 26, 2001

Hydrogen Sulfide and TO-14A Analyses

CONFIDENTIA

Calscience Environmental Laboratories, Inc.

October 04, 2001

Robert McAllister
L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Subject: **Calscience Work Order No.: 01-09-1136**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/26/01 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

000490

EXHIBIT 1: Sheet 2 of 9

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	09/26/01
444 Irving Drive, Suite 101	Date Received:	09/26/01
Burbank, CA 91504	Date Analyzed:	09/26/01
	Work Order No.:	01-09-1136
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	112	10
I-1	ND	1
H-1	ND	1
PPS-D	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	112	121	8	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 09/26/01
Work Order No: 01-09-1136
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TSI	01-09-1136-1	09/26/01	Air	N/A	09/27/01	V010926A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	260	63	125		ppb (v/v)	Trichloroethene	85	63	125		ppb (v/v)
1,1-Dichloroethene	ND	63	125		ppb (v/v)	1,2-Dibromoethane	ND	63	125		ppb (v/v)
Methylene Chloride	ND	250	125		ppb (v/v)	Tetrachloroethene	88	63	125		ppb (v/v)
1,1-Dichloroethane	ND	63	125		ppb (v/v)	Chlorobenzene	750	63	125		ppb (v/v)
Chloroform	ND	63	125		ppb (v/v)	p/m-Xylene	8100	130	125		ppb (v/v)
1,2-Dichloroethane	ND	63	125		ppb (v/v)	o-Xylene	3500	63	125		ppb (v/v)
1,1,1-Trichloroethane	ND	63	125		ppb (v/v)	Benzyl Chloride	ND	63	125		ppb (v/v)
Benzene	1400	63	125		ppb (v/v)	1,3-Dichlorobenzene	ND	63	125		ppb (v/v)
Carbon Tetrachloride	ND	63	125		ppb (v/v)	1,4-Dichlorobenzene	460	63	125		ppb (v/v)
Toluene	5300	630	1250	D	ppb (v/v)	1,2-Dichlorobenzene	110	63	125		ppb (v/v)

I-1	01-09-1136-2	09/26/01	Air	N/A	09/27/01	V010926A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	3.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.1	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	8.3	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

H-1	01-09-1136-3	09/26/01	Air	N/A	09/27/01	V010926A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	3.4	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.2	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	9.0	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 09/26/01
Work Order No: 01-09-1136
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
PPS-D	01-09-1136-4	09/26/01	Air	N/A	09/27/01	V010926A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	5.0	10		ppb (v/v)	Trichloroethene	ND	5.0	10		ppb (v/v)
1,1-Dichloroethene	ND	5.0	10		ppb (v/v)	1,2-Dibromoethane	ND	5.0	10		ppb (v/v)
Methylene Chloride	ND	20	10		ppb (v/v)	Tetrachloroethene	ND	5.0	10		ppb (v/v)
1,1-Dichloroethane	26	5	10		ppb (v/v)	Chlorobenzene	8.0	5.0	10		ppb (v/v)
Chloroform	ND	5.0	10		ppb (v/v)	p/m-Xylene	ND	10	10		ppb (v/v)
1,2-Dichloroethane	ND	5.0	10		ppb (v/v)	o-Xylene	ND	5.0	10		ppb (v/v)
1,1,1-Trichloroethane	ND	5.0	10		ppb (v/v)	Benzyl Chloride	ND	5.0	10		ppb (v/v)
Benzene	ND	5.0	10		ppb (v/v)	1,3-Dichlorobenzene	ND	5.0	10		ppb (v/v)
Carbon Tetrachloride	ND	5.0	10		ppb (v/v)	1,4-Dichlorobenzene	ND	5.0	10		ppb (v/v)
Toluene	17	5	10		ppb (v/v)	1,2-Dichlorobenzene	ND	5.0	10		ppb (v/v)

Method Blank	095-01-021-1,458	N/A	Air	N/A	09/26/01	V010926A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill

Date Received: 09/26/01
Work Order No: 01-09-1136
Preparation: N/A
Method: EPA TO-14A

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,466	Air	GC/MS V	N/A	09/26/01	V010926A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	93	98	60-140	5	0-30	
1,2-Dichloroethane	94	93	60-140	0	0-30	
Benzene	87	87	60-140	0	0-30	
Carbon Tetrachloride	93	92	60-140	1	0-30	
Toluene	86	88	60-140	2	0-30	
Trichloroethene	82	83	60-140	1	0-30	
1,2-Dibromoethane	89	90	60-140	1	0-30	
Tetrachloroethene	88	89	60-140	1	0-30	
p/m-Xylene	88	89	60-140	1	0-30	
o-Xylene	88	89	60-140	1	0-30	
1,4-Dichlorobenzene	91	91	60-140	0	0-30	
1,2-Dichlorobenzene	90	91	60-140	1	0-30	

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Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 01-09-1136

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
ND	Not detected at indicated reporting limit.

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CONFIDENTIA

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 01-0 9 - 1 1 3 6

Cooler 2 of 6

SAMPLE RECEIPT FORM

CLIENT: LA Byproducts DATE: 9/28/01

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ____ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ✓ Ambient temperature.
- ____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ Chilled, without temperature blank.
- ____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact) : ____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓	✓	
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.	✓		✓
Tedlar bag(s) free of condensation	✓		

Initial: [illegible]

COMMENTS:

PPS-D not listed on COC

EXHIBIT 1: Sheet 8 of 9

1136

BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 9-26-01

Bag (I.D.#)	TSI	I-1	H-1							
Condition Received in Lab*	F	F	F							

Analyses Requested: 1150.1 & H_2S

Bags Prepared By: Robert McAlister Time: 1300

Date: 9/26/01

Bags Taken Out By: Time:

Bags Taken to Lab By: Time: 9/26/01 1300

Bags Received In Lab By: Time: 9/26/01 1535

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

J152TABL.608

TOTAL P.09

000003

EXHIBIT 1: Sheet 9 of 9

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EXHIBIT 2

PENROSE LANDFILL - Third Quarter 2001

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedances

Exhibit 2.2.1: Monitoring Results - July 13, 2001

Exhibit 2.2.2: Mitigation and Follow-up SRBPM Results - July 18 and 23, 2001

Exhibit 2.2.3: Monitoring Results - September 13, 2001

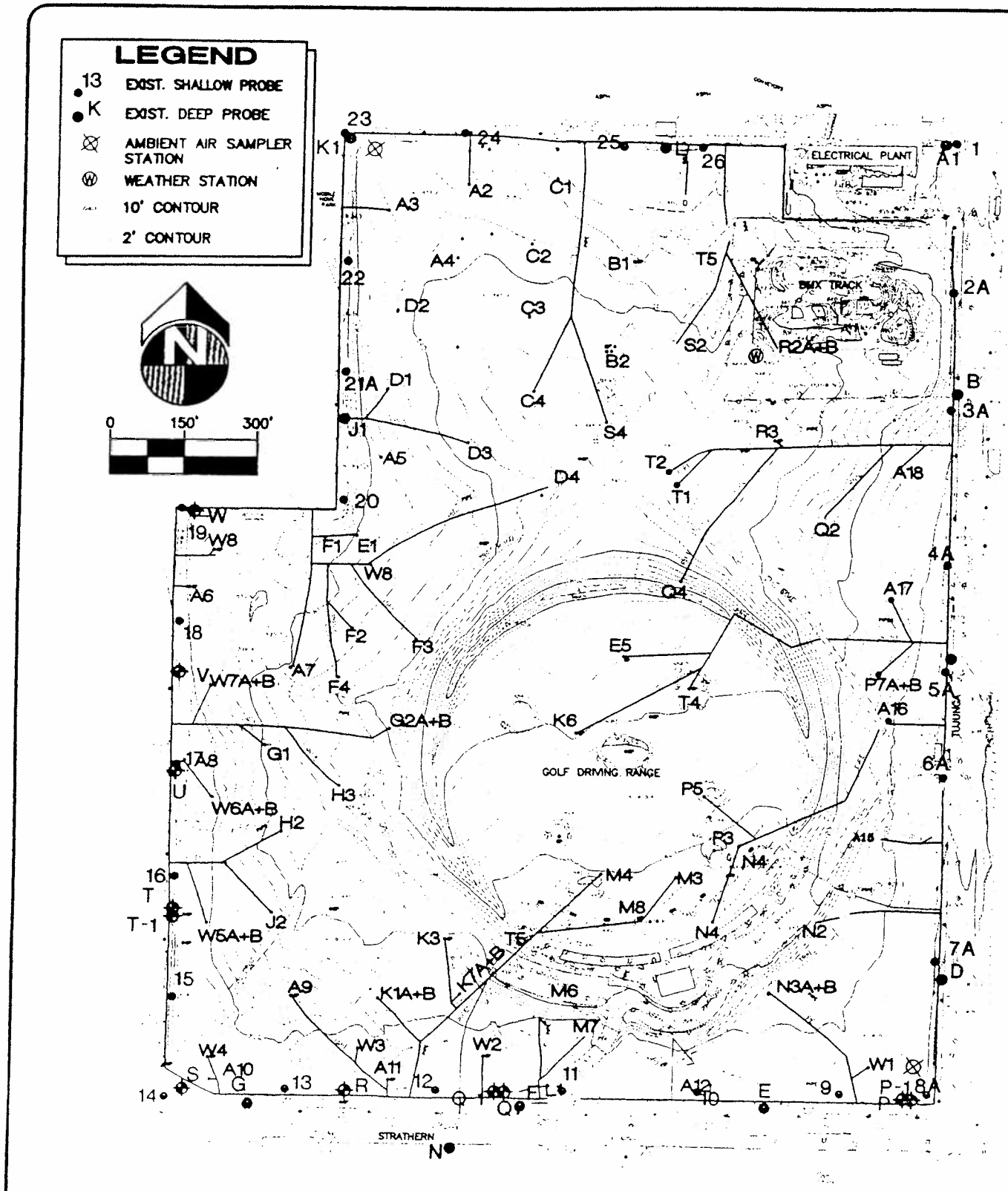
Exhibit 2.2.4: Mitigation and Follow-up SRBPM Results - September 14 and 21, 2001

Exhibit 2.3: SRBPS TAC Laboratory Results - September 26, 2001

Hydrogen Sulfide and TO-14A Analyses

CONFIDENTIAL

PENHUSE LANDFILL
MONITORING PROBE LOCATIONS



SEPICH ASSOCIATES, Inc.
CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
680 WALNUT ST.
MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (818) 845-4489 Fax (818) 845-1011

Exhibit 2.1

CONFIDENTIAL

FROM : GREYSTONE RIVAGE FAX NO. : 949-718-0375 Jul. 17 2001 10:28AM P1
JUN-29-2001 FRI 11:43 AM FAX NO. P. 01

J481

8309 Tujunga Avenue Corp. – Penrose
8301 Tujunga Avenue
Sun Valley, California 91352
Tel: (323) 875-1095 Fax: (818) 768-6039

JOB NAME: PENROSE LANDFILL

DATE: 7/13/01
JOB No.: J 481

GAS CONCENTRATIONS

INITIALS	RYP
TIME	12:30
INSTRUMENT	HPK
PARAMETER	% VOL

REMARKS: P = PEAK
ND = NON DETECT
S – stabilize

PROBE #			PROBE #						
1	ND		A-1	ND		R	10'	ND	
2 A	ND		B	ND			40'	P=2.3	
3 A	ND		C GREEN-21'	ND			80'	P=2.2	
4 A	ND		C YELLOW-41'	ND			120'	ND	
5 A	ND		C ORANGE-61'	X	LOST	S	10'	ND	
6 A	ND		C RED - 81'	ND			40'	ND	
7 A	ND		D	P=1.0			80'	ND	
8 A	ND		E	1.50			120'	ND	
9	ND		F	ND		T	10'	ND	
10	ND		G	ND			40'	ND	
11	ND		J-1	5.0			73'	PLUG	
12	ND		K-1	ND		T-1	72'	0.20	
13	ND		L GREEN-45'	P=1.0	S=0.25	U	10'	ND	
14	ND		L YELLOW-65'	ND			37'	ND	
15	ND		L ORANGE-85'	PLUG			68'	ND	
16	ND		L RED - 105'	P=1.25	S=0.6	V	10'	ND	
17	ND		N GREEN-22'	ND			40'	ND	
18	ND		N YELLOW-45'	ND			73'	ND	
19	ND		N ORANGE-68'	ND		W	10'	ND	
20	ND		N RED - 90'	ND			40'	ND	
21 A	ND		P 10'	ND			80'	ND	
22	ND		P 40'	ND			120'	ND	
23	ND		P 80'	ND			158'	ND	
24	ND		P-1 120'	ND					
25	ND		Q 10'	P=2.75					
26	ND		Q 40'	P=1.4					
			Q 75'	ND					
			Q-1 120'	ND					
			Q-1 158'	ND					

ANY PROBE ≥ 5% CALL (323) 875-1095

SLPICH ASSOCIATES, Inc. METHANE SPECIALISTS 580 WALNUT STREET HOORPARK, CA. 93021 TEL. (818)707-3036 FAX (818)707-3012

Exhibit 2.2.1

CONFIDENTIAL

John Kangas
Station Supervisor
Pentrose Power Plant

Covanta Power Pacific, Inc.
A Covanta Energy Company
8301 Tujunga Avenue
Sun Valley CA 91352
Tel 323 875 1095
Fax 818 768 6039
Email jkangas4@covantaenergy.com

COVANTA ENERGY

Sepich Associats
Methane Specialists
680 Walnut Street
Moorpark, Ca. 93021

Oct. 15, 2001

Re.: Correction on probe reads 7/13/01 and 9/13/01

Mr. Alex Fentch:

On 7/18/01 gas flow rate on well "D," was increased up for gas migration control on probe "J", which was detected @ 5% gas volume on 7/13/01. No gas reads was detected on probe "J" after 7/20/01.

On 9/14/01, Adjusted suction pressure on wells D3 and A14 for clearing up probe reads on "D," which was detected 20% gas volume on 9/13/01. Reads has apparently been improved daily on each monitoring. It was hardly detected any gas concentration reads after 9/21/01.

Should you have any questions or require further info, please contact Alma Pladson, Director of operation and maintenance. (562) 695-2442 EXT. 29.

Sincerely yours.

VICTOR LAM (FIELD FOREMAN)

CONFIDENTIA

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST. MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE LANDFILL

JOB NO: 319276
DATE: 7/23/01

METHANE MONITORING INSPECTION REPORT

CLIMATE:

BRIGHT	CLOUDY	<32° F	71°–85°	STILL
CLEAR	OVERCAST	33°–55°	86°–100° F	BREEZY
FOG	RAIN	56°–70°	>100° F	WIND

DRY / MODERATE / HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☒ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED _____
- ☐ INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: Perimeter probe monitor of probe 5-6 was .5%. This was a follow up monitor for exceedence on 7/13. Instrument used was gas-tech 1p-204. Probe was monitored at 10:30 AM.

☐ FOLLOW UP INSPECTION(S) REQUIRED.

Robert [illegible]
INSPECTOR

PRINCIPAL

G:\Job\J152-6\Monthsp.dwg July 23 1999 2:58pm By: eric

000505

Exhibit 2.2.2: Sheet 2 of 2

Ogden Power Pacific
3181 Crossroads Parkway North, Suite 250
City of Industry, California 91748
Tel (562) 695-2442 Fax (562) 645-5683

PENROSE LANDFILL

DATE	9/13/0
JOB No.	J481

GAS CONCENTRATIONS

INITIALS	RYD
TIME	12:00
INSTRUMENT	HPK
PARAMETER	% VOL

REMARKS PEAK = P
@ P = 2.75
@ P = 4.0

PROBE #	
1	ND
2 A	ND
3 A	ND
4 A	ND
5 A	ND
6 A	ND
7 A	ND
8 A	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
16	ND
17	ND
18	ND
19	ND
20	ND
21 A	ND
22	ND
23	ND
24	ND
25	ND
26	ND

PROBE #		
A-1		ND
B		ND
C	GREEN-21'	ND
	YELLOW-41'	ND
	ORANGE-61'	ND
	RED - 81'	ND
D		20.0
E		0.25
F		ND
G		ND
J-1		ND
K-1		ND
L	GREEN-45'	0.60
	YELLOW-65'	ND
	ORANGE-85'	ND
	RED - 105'	1.0
N	GREEN-22'	ND
	YELLOW-45'	ND
	ORANGE-68'	ND
	RED - 90'	ND
P	10'	ND
	40'	ND
	80'	ND
P-1	120'	ND
Q	10'	ND
	40'	ND @
	75'	ND
Q-1	120'	ND
	158'	ND

R	10'	ND
	40'	ND @
	80'	0.5
	120'	ND
S	10'	ND
	40'	ND
	80'	ND
	120'	ND
T	10'	ND
	40'	ND
	73'	ND
T-1	72'	ND
U	10'	ND
	37'	ND
	68'	ND
V	10'	ND
	40'	ND
	73'	ND
W	10'	ND
	40'	ND
	80'	ND
	120'	ND
	158'	ND
TSI		

Exhibit 2.2.3

CONFIDENTIAL

John Kanges
Station Supervisor
Pentose Power Plant

COVANTA ENERGY

Covanta Power Pacific, Inc.
A Covanta Energy Company
8301 Tujunga Avenue
Sun Valley CA 91352
Tel 323 875 1095
Fax 818 768 6039
Email jkangas@covantaenergy.com

Sepich Associats
Methane Specialists
680 Walnut Street
Moorpark, Ca. 93021

Oct. 15, 2001

Re: Correction on probe reads 7/13/01 and 9/13/01

Mr. Alex Feutch:

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On 9/14/01, Adjusted suction pressure on wells D3 and A14 for clearing up probe reads on "D," which was detected 20% gas volume on 9/13/01. Reads has apparently been improved daily on each monitoring. It was hardly detected any gas concentration reads after 9/21/01.

Should you have any questions or require further info, please contact Alno Pladson, Director of operation and maintenance. (562) 695-2442 EXT. 29

Sincerely yours.

VICTOR LAM (FIELD FOREMAN)

000507

Exhibit 2.2.4: Sheet 1 of 2

CONFIDENTIA

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST. MOORPARK, CA 93021
TEL: (818) 707-0094 (805) 582-0000
FAX: (818) 707-5012 (805) 582-0001

JOB NAME: PENROSE LANDFILL

JOB No. J526
DATE 9/2/01

METHANE MONITORING INSPECTION REPORT

CLIMATE: BRIGHT / CLOUDY / OVERCAST / FOG / RAIN

<32° F / 33°–55° / 56°–70° / 71°–85° / 86°–100° / >100° F

STILL / BREEZ / WIND

DRY / MODERATE / HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☒ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED _____
- ☐ INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: MONITOR OF PROBE D – ND was result.

This is a follow up to exceedence on 9/13.

Instrument was rp-204. Probe was monitored at 3:15 pm.

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

[signature]
INSPECTOR

PRINCIPAL

G:\Job\J152-6\Monhsp.dwg July 23 1999 2:58pm By: eric

000508

Exhibit 2.2.4: Sheet 2 of 2

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	09/26/01
444 Irving Drive, Suite 101	Date Received:	09/26/01
Burbank, CA 91504	Date Analyzed:	09/26/01
	Work Order No.:	01-09-1136
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	112	10
I-1	ND	1
H-1	ND	1
PPS-D	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	112	121	8	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Exhibit 2.3: Sheet 1 of 2

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	09/26/01
Work Order No:	01-09-1136
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PPS-D	01-09-1136-4	09/26/01	Air	N/A	09/27/01	V010926A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	5.0	10		ppb (v/v)	Trichloroethene	ND	5.0	10		ppb (v/v)
1,1-Dichloroethene	ND	5.0	10		ppb (v/v)	1,2-Dibromoethane	ND	5.0	10		ppb (v/v)
Methylene Chloride	ND	20	10		ppb (v/v)	Tetrachloroethene	ND	5.0	10		ppb (v/v)
1,1-Dichloroethane	28	5	10		ppb (v/v)	Chlorobenzene	8.0	5.0	10		ppb (v/v)
Chloroform	ND	5.0	10		ppb (v/v)	p/m-Xylene	ND	10	10		ppb (v/v)
1,2-Dichloroethane	ND	5.0	10		ppb (v/v)	o-Xylene	ND	5.0	10		ppb (v/v)
1,1,1-Trichloroethane	ND	5.0	10		ppb (v/v)	Benzyl Chloride	ND	5.0	10		ppb (v/v)
Benzene	ND	5.0	10		ppb (v/v)	1,3-Dichlorobenzene	ND	5.0	10		ppb (v/v)
Carbon Tetrachloride	ND	5.0	10		ppb (v/v)	1,4-Dichlorobenzene	ND	5.0	10		ppb (v/v)
Toluene	17	5	10		ppb (v/v)	1,2-Dichlorobenzene	ND	5.0	10		ppb (v/v)

Method Blank	095-01-021-1,466	N/A	Air	N/A	09/26/01	V010926A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Exhibit 2.3: Sheet 2 of 2

EXHIBIT 3

PENROSE LANDFILL - Third Quarter 2001

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 2)

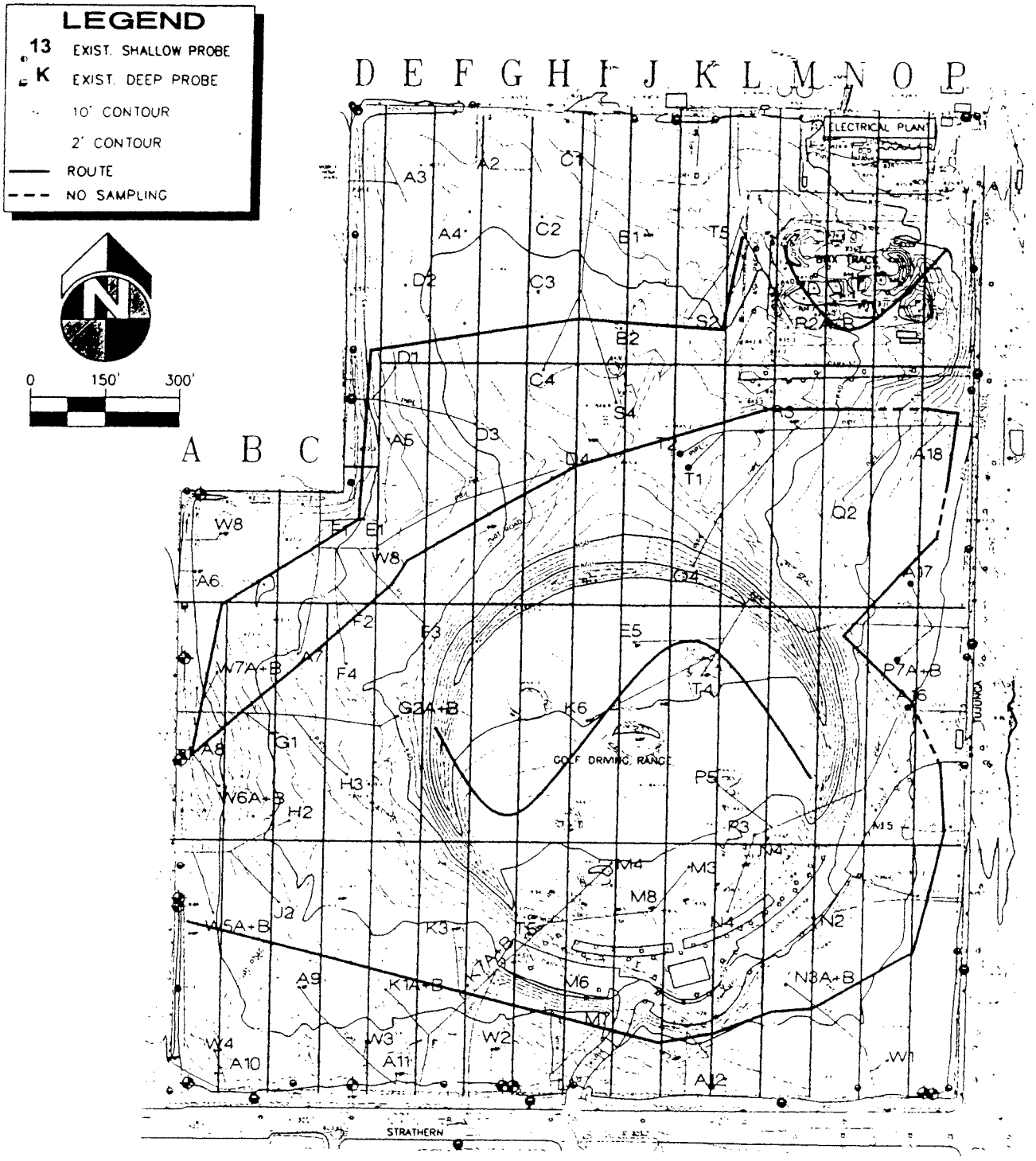
Exhibit 3.2: ILSS TAC Laboratory Results - September 26, 2001

Hydrogen Sulfide and TO-14A Analyses

CONFIDENTIAL

PENROSE LANDFILL

INTEGRATED SAMPLING ROUTE 2



SEPICH ASSOCIATES, Inc.
680 WALNUT ST.
MOORPARK, CA 93021
TEL (818) 707-3036 (805) 552-0000
FAX (818) 707-3012 (805) 552-0001

Los Angeles By-Products Co.
Incorporated 1925
444 Irving Drive Suite #101 Burbank CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

SHEET ___ OF ___

Exhibit 3.1

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	09/26/01
444 Irving Drive, Suite 101	Date Received:	09/26/01
Burbank, CA 91504	Date Analyzed:	09/26/01
	Work Order No.:	01-09-1136
Attn: Robert McAllister	Method:	GC/FPD
RE: Penrose Landfill	Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	112	10
I-1	ND	1
H-1	ND	1
PPS-D	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	112	121	8	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	09/26/01
Work Order No:	01-09-1136
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	01-09-1136-1	09/26/01	Air	N/A	09/27/01	V010926A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	260	63	125		ppb (v/v)	Trichloroethene	85	63	125		ppb (v/v)
1,1-Dichloroethene	ND	63	125		ppb (v/v)	1,2-Dibromoethane	ND	63	125		ppb (v/v)
Methylene Chloride	ND	250	125		ppb (v/v)	Tetrachloroethene	88	63	125		ppb (v/v)
1,1-Dichloroethane	ND	63	125		ppb (v/v)	Chlorobenzene	750	63	125		ppb (v/v)
Chloroform	ND	63	125		ppb (v/v)	p/m-Xylene	8100	130	125		ppb (v/v)
1,2-Dichloroethane	ND	63	125		ppb (v/v)	o-Xylene	3500	63	125		ppb (v/v)
1,1,1-Trichloroethane	ND	63	125		ppb (v/v)	Benzyl Chloride	ND	63	125		ppb (v/v)
Benzene	1400	63	125		ppb (v/v)	1,3-Dichlorobenzene	ND	63	125		ppb (v/v)
Carbon Tetrachloride	ND	63	125		ppb (v/v)	1,4-Dichlorobenzene	460	63	125		ppb (v/v)
Toluene	8300	630	1250	D	ppb (v/v)	1,2-Dichlorobenzene	110	63	125		ppb (v/v)

I-1	01-09-1136-2	09/26/01	Air	N/A	09/27/01	V010926A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	3.2	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.1	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.0	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	8.3	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

H-1	01-09-1136-3	09/26/01	Air	N/A	09/27/01	V010926A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	3.4	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	1.2	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	2.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	9.0	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Exhibit 3.2: Sheet 2 of 2

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SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

TEL (818) 707-3036
(805) 552-0000
FAX (818) 707-3012
(805) 552-0001

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

August 10, 2001

RECEIVED
AUG 14 2001
A. BY-PROD CO.

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Second Quarter, 2001
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the thirty first quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period April through June 2001. This is the fifth quarterly report submitted under the 1999 revised version of SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill.

There were no exceedances detected during the *integrated landfill surface sampling* (ILSS) or during the *instantaneous landfill surface monitoring* (ILSM) during the second quarter of 2001. An exceedance was detected from a *subsurface refuse boundary probe* (SRBP).

1. **Reporting Requirements.**

Quarterly: South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).
- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

The 2001 second quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM for SCAQMD monitoring events) compliance probe monitoring on May 2, May 30, and June 24; for TOC (non-compliance monitoring for City of Los Angeles, Environmental Affairs Department (LEA) requirements on April 12, May 11, and June 15). The LEA Inspector monitored selected probes on May 21 and June 20. An attempted LEA monitoring on April 31 was aborted due to a malfunctioning gas detector.

- Collect (quarterly) one bag sample, for TOC and TAC from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probe J-1 was sampled on June 26, 2001);

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route 1 traversed, sampled and monitored for TOC on June 26 and 27; Grids D-1 and E-2 were sampled for TAC laboratory analyses on June 26, 2001);
- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west); on April 24 and June 25 Path B was monitored, and on May 31 Path A was monitored; and
- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (June 26, 2001).

Record Keeping: Section (f)(1) of the Rule describes the record keeping requirements.

2. Control System - 8309 Tujunga Avenue Corp. (8309 TAC) - Penrose Power Plant.

Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at 8309 TAC's (formerly Ogden Power Pacific, Inc.) Plant at 8301 Tujunga Avenue, Sun Valley.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

3. Compliance Probe Monitoring Results.

Rule 1150.1 compliance probe monitoring (SRBPM) was performed on May 2, May 31, and June 24, 2001. Results: There were no exceedances detected in compliance probes during these second quarter 2001 monitoring events. An exceedance was detected in a compliance probe during another monitoring event.

Probe Monitoring Results = 1 Exceedance: A compliance probe exceedance was recorded during the second quarter 2001 monitoring.

Exceedance: 6-15-01: 8.2% of volume at Probe J-1 (during LEA compliance monitoring - results are presented in EXHIBIT 2.2.1).

Mitigation Measures: 6-16-01: according to the Rule, the first mitigation measure is to make extraction well adjustments (Well D1 in this case).

Follow-up Results: Follow-up monitoring results for the June 15 exceedance at Probe J-1 are presented on the quality control sheet (page 2 of QCS) for the June 24 compliance SRBPM (non-detect at Probe J-1). The follow-up results are presented in EXHIBIT 2.2.2.

4. **Compliance Probe Sampling Results**: A probe TAC sample was collected on June 26, 2001 from Probe J-1. The field TOC was 1.6% of volume. The lab results (sample I.D. J-1, included in EXHIBIT 2.3), indicated concentrations of 8 parts per billion (ppb) vinyl chloride and 4.9 ppb benzene with all other TO-14A analytes (and H_2S) not detected at the reporting limits of the methods used.

5. **Integrated Landfill Surface Sampling (ILSS) Results** (see traverse map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC samples were collected in Tedlar bags and analyzed with an FID. The results were recorded on the quality control sheets (QCS). All 59 samples registered non-detect as measured by the Foxboro FID. TAC results are included as laboratory results (samples ISS #1 from grid D-1 and IISS #2 from grid E-2) in EXHIBIT 3.2.

The wind speeds during the sampling periods were measured with a hand held instrument as allowed by the Rule. The maximum wind speeds are recorded on the QCS. ILSS is not performed when wind speed is 5 mph or greater.

6. **Instantaneous Landfill Surface Monitoring (ILSM) Results.**

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results were to be presented on traverse maps. All results registered non-detect for all the traverses, therefore no values were entered on the maps and ILSM documentation is not presented with this report (but is available to SCAQMD as required in Section (f)(1) of the Rule regarding the record keeping requirements).

7. **Toxic Air Contaminant Results**: As required by Section (f)(2)(B)(ii) of the Rule, second quarter 2001 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (Sample TSI) EXHIBIT 1;
- SRBPS (Sample J-1) EXHIBIT 2.3; and
- ILSS (Samples ISS#1 from D-1, IISS#2 from E-2) EXHIBIT 3.2.

8. **Certification**: This quarterly report and certification is based upon Sepich Associates'/Methane Specialists' understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California, that I am knowledgeable in the field of landfill gas migration control and monitoring, that the monitoring and sampling for landfill gas emissions and migration and the mitigation measures at Penrose Landfill for the Second Quarter of 2001 were performed by me or persons under my direct supervision, and that I assume professional responsibility for the validity and accuracy of this report.

Sincerely,
Methane Specialists

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
exp. 6-30-2004
CIVIL
STATE OF CALIFORNIA

John Sepich, P. E.

Distribution: SCAQMD, Senior Engineering Manager, Toxics and Waste Management Branch
Los Angeles By-Products Company, Mr. Mike McAllister
City of Los Angeles, Local Enforcement Agency, Mr. George M. Payba
California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for Second Quarter 2001

EXHIBIT 1 - Control Device Laboratory Results
TSI TAC Laboratory Results: H_2S and TO-14A Analyses - June 26, 2001
EXHIBIT 2 - Subsurface Refuse Boundary Probe (SRBP) Documentation
Exhibit 2.1: Probe Location Map
Exhibit 2.2: SRBPM Exceedance
Exhibit 2.2.1: Monitoring Results - June 15, 2001
Exhibit 2.2.2: Follow-up SRBPM Results - June 24, 2001
Exhibit 2.3: SRBPS TAC Laboratory Results: H_2S and TO-14A Analyses - June 26, 2001
EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation
Exhibit 3.1: ILSS Traverse Map (Route 1)
Exhibit 3.2: ILSS TAC Laboratory Results: H_2S and TO-14A Analyses - June 26, 2001

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EXHIBIT 1

PENROSE LANDFILL - Second Quarter 2001

Control Device Laboratory Results

from the Header Inlet (TSI)

Control Device Laboratory Results

TSI TAC Laboratory Results - June 26, 2001

Hydrogen Sulfide and TO-14A Analyses

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Calscience Environmental Laboratories, Inc.

July 03, 2001

COPY

Robert McAllister
L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Subject: **Calscience Work Order No.: 01-06-1300**
Client Reference: Penrose Landfill

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/26/01 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

William H. Christensen
Quality Assurance Manager

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	06/26/01 06/26/01 06/26/01
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	01-06-1300 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	128	5
ISS #1	ND	1
IISS #2	ND	1
J-1	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	128	133	4	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

CONFIDENTIAL

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	06/26/01
Work Order No:	01-06-1300
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	01-06-1300-1	06/26/01	Air	N/A	06/26/01	K010626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	330	60	120		ppb (v/v)	Trichloroethene	120	60	120		ppb (v/v)
1,1-Dichloroethene	ND	60	120		ppb (v/v)	1,2-Dibromoethane	ND	60	120		ppb (v/v)
Methylene Chloride	390	240	120		ppb (v/v)	Tetrachloroethene	120	60	120		ppb (v/v)
1,1-Dichloroethane	ND	60	120		ppb (v/v)	Chlorobenzene	1400	60	120		ppb (v/v)
Chloroform	ND	60	120		ppb (v/v)	p/m-Xylene	7700	120	120		ppb (v/v)
1,2-Dichloroethane	ND	60	120		ppb (v/v)	o-Xylene	3600	60	120		ppb (v/v)
1,1,1-Trichloroethane	ND	60	120		ppb (v/v)	Benzyl Chloride	ND	60	120		ppb (v/v)
Benzene	1600	60	120		ppb (v/v)	1,3-Dichlorobenzene	72	60	120		ppb (v/v)
Carbon Tetrachloride	ND	60	120		ppb (v/v)	1,4-Dichlorobenzene	1000	60	120		ppb (v/v)
Toluene	8900	600	1200	D	ppb (v/v)	1,2-Dichlorobenzene	500	60	120		ppb (v/v)

ISS #1	01-06-1300-2	06/26/01	Air	N/A	06/27/01	K010626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	1.1	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.71	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	3.4	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

IISS #2	01-06-1300-3	06/26/01	Air	N/A	06/27/01	K010626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	1.1	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.66	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	0.63	0.50	1		ppb (v/v)
Toluene	3.2	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 06/26/01
Work Order No: 01-06-1300
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
J-1	01-06-1300-4	06/26/01	Air	N/A	06/27/01	K010626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	8.0	4.0	8		ppb (v/v)	Trichloroethene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethene	ND	4.0	8		ppb (v/v)	1,2-Dibromoethane	ND	4.0	8		ppb (v/v)
Methylene Chloride	ND	16	8		ppb (v/v)	Tetrachloroethene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethane	ND	4.0	8		ppb (v/v)	Chlorobenzene	ND	4.0	8		ppb (v/v)
Chloroform	ND	4.0	8		ppb (v/v)	p/m-Xylene	ND	8.0	8		ppb (v/v)
1,2-Dichloroethane	ND	4.0	8		ppb (v/v)	o-Xylene	ND	4.0	8		ppb (v/v)
1,1,1-Trichloroethane	ND	4.0	8		ppb (v/v)	Benzyl Chloride	ND	4.0	8		ppb (v/v)
Benzene	4.9	4.0	8		ppb (v/v)	1,3-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Carbon Tetrachloride	ND	4.0	8		ppb (v/v)	1,4-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Toluene	ND	4.0	8		ppb (v/v)	1,2-Dichlorobenzene	ND	4.0	8		ppb (v/v)

Method Blank	095-01-021-1,375	N/A	Air	N/A	06/26/01	K010626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill

Date Received: 06/26/01
Work Order No: 01-06-1300
Preparation: N/A
Method: EPA TO-14A

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,375	Air	GC/MS K	N/A	06/26/01	K010626A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	90	88	60-140	2	0-30	
1,2-Dichloroethane	86	84	60-140	3	0-30	
Benzene	92	89	60-140	4	0-30	
Carbon Tetrachloride	83	81	60-140	3	0-30	
Toluene	94	91	60-140	4	0-30	
Trichloroethene	90	87	60-140	3	0-30	
1,2-Dibromoethane	95	93	60-140	3	0-30	
Tetrachloroethene	91	89	60-140	3	0-30	
p/m-Xylene	95	92	60-140	3	0-30	
o-Xylene	95	92	60-140	3	0-30	
1,4-Dichlorobenzene	112	107	60-140	4	0-30	
1,2-Dichlorobenzene	113	110	60-140	2	0-30	

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Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

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Work Order Number: 01-06-1300

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
ND	Not detected at indicated reporting limit.

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Please Fax copy

1300

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BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL Date: 6/26/01

Bag (I.D.#)	TSI	ISS#1	ISS#2	J-1						
Condition Received in Lab*										

Analyses Requested: TOC / TAC / [illegible]

Bags Prepared By: [illegible] Time: 12:03 PM

Date: 6/26/01

Bags Taken Out By: _____ Time: _____

Bags Taken to Lab By: [illegible] Time: 6/26/01 1208

Bags Received In Lab By: [illegible] Time: 6/26 - 1340

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

J152TABL.608

000526

EXHIBIT 1: Sheet 8 of 8

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EXHIBIT 2

PENROSE LANDFILL - Second Quarter 2001

Subsurface Refuse Boundary Probe (SRBP) Documentation

Exhibit 2.1: Probe Location Map

Exhibit 2.2: SRBPM Exceedance

Exhibit 2.2.1: Monitoring Results - June 15, 2001

Exhibit 2.2.2: Follow-up SRBPM Results - June 24, 2001

Exhibit 2.3: SRBPS TAC Laboratory Results - June 26, 2001

Hydrogen Sulfide and TO-14A Analyses

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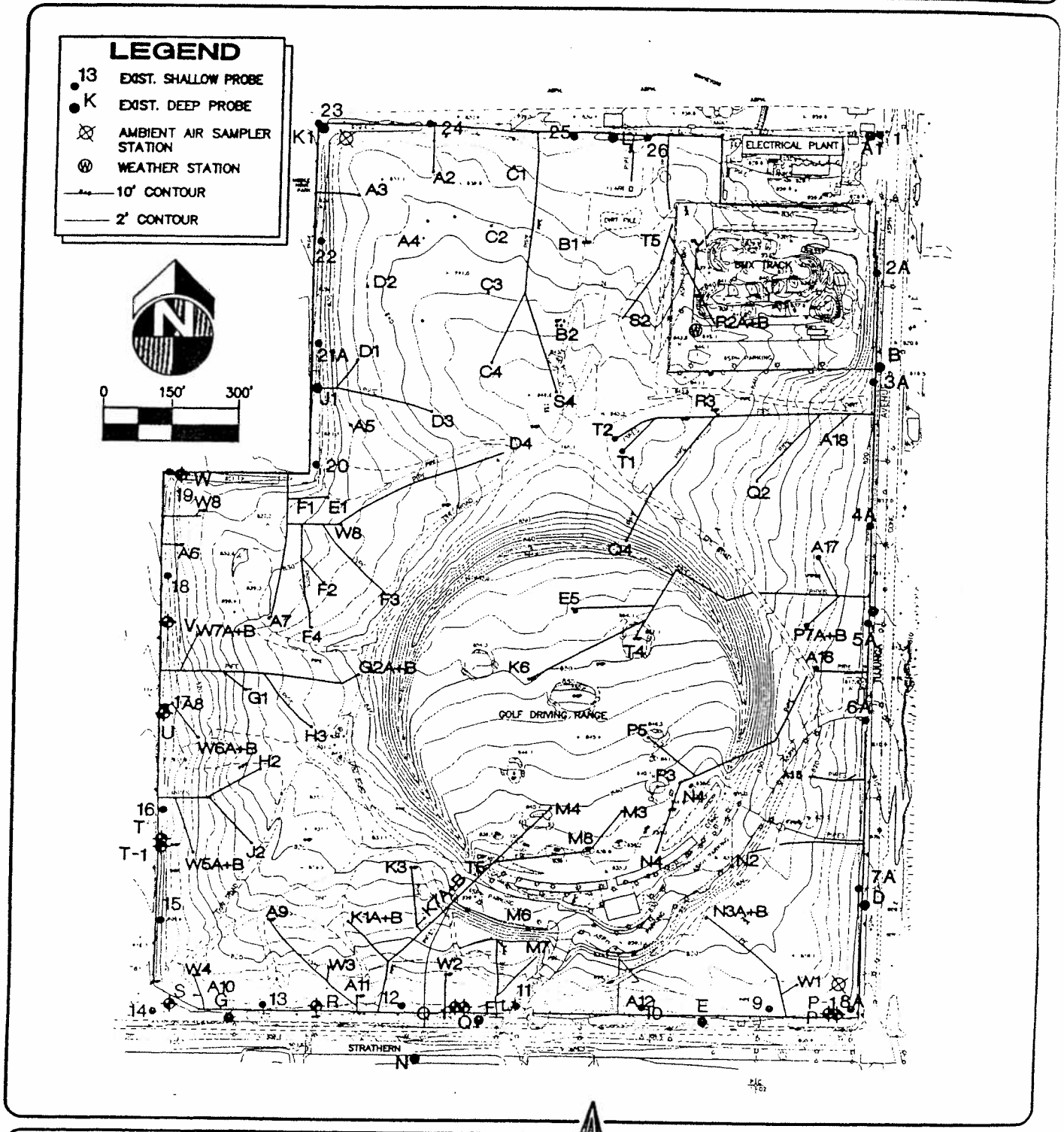
PENROSE LANDFILL MONITORING PROBE LOCATIONS

J152-6



SEPICH ASSOCIATES, Inc.
CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS
680 WALNUT ST.
MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

Exhibit 2.1

SHEET OF

000528

J481

Ogden Power Pacific
13181 Crossroads Parkway North, Suite 250
City of Industry, California 91746
Tel: (562) 695-2442 Fax: (562) 645-5683

JOB NAME: PENROSE LANDFILL

DATE: 6/15/01

JOB No.: J481

GAS CONCENTRATIONS

INITIALS	RP
TIME	2:00
INSTRUMENT	GA 90 INFRARED GAS ANALYSER
PARAMETER	% VOL

REMARKS

PROBE #		
1	ND	
2 A	ND	
3 A	ND	
4 A	ND	
5 A	ND	
6 A	ND	
7 A	ND	
8 A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	ND	
21 A	ND	
22	ND	
23	ND	
24	ND	
25	ND	
26	ND	

PROBE #			
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	
	ORANGE-61'	ND	
	RED - 81'	ND	
D		ND	
E		ND	
F		ND	
G		ND	
J-1		8.2	
K-1		ND	
L	GREEN-45'	0.9	
	YELLOW-65'	ND	
	ORANGE-85'	ND	
	RED - 105'	2.0	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	ND	
	80'	ND	
P-1	120'	ND	
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

R	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
S	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
T	10'	ND	
	40'	ND	
	73'	ND	
T-1	72'	ND	
U	10'	ND	
	37'	ND	
	68'	ND	
V	10'	ND	
	40'	ND	
	73'	ND	
W	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
	158'	ND	
TSI			

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

REV. 2-19-99

Exhibit 2.2.1

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PENROSE LANDFILL - SCAQMD RULE 1150.1 PROBE MONITORING DATE: 6/24/01

PROBE #	DESIGNATION DEPTH	Time on	Time off	VOC/CH_4 (% VOLUME)	REMARKS PAGE 2
A-1		4:55.55	4:56.33	ND	
B		5:02.22	5:03.19		
C	GREEN-21'	5:06.43	5:07.50		
	YELLOW-41'	5:05.24	5:05.58		
	ORANGE-61'				
	RED - 81'	5:06.08	5:06.28		2 Pumps
D		5:09.42	5:10.38	.4%	
E		5:13.21	5:14.01	.4%	
F		5:15.57	5:16.30	ND	
G		5:18.22	5:19.25	.6%	
J-1		3:11.01	3:11.44	ND	
K-1		3:18.45	3:19.25		
L	GREEN-45'	3:25.08	3:26.03		
	YELLOW-65'	3:26.28	3:26.52		3 Pumps
	ORANGE-85'	3:27.16	3:27.57		
	RED - 105'	3:28.31	3:29.16		
N	GREEN-22'	4:05.38	4:06.18		
	YELLOW-45'	4:02.44	4:03.54		
	ORANGE-68'	4:04.47	4:05.20		
	RED - 90'	4:03.59	4:04.35		
P	10'	2:13.55	2:14.32		
	40'	2:13.10	2:13.45		
	80'	2:12.24	2:13.00		
P-1	120'	2:14.48	2:15.26		
Q	10'	2:22.06	2:22.51		
	40'	2:23.13	2:23.52		
	75'	2:24.09	2:24.52		
Q-1	120'	2:25.10	2:25.53		
	158'	2:26.02	2:26.41		

SBPICK ASSOCIATES/METHANE SPECIALISTS, 680 WALNUT ST., MOORPARK, CA 93021 TEL (818) 707-3036, FAX (818) 707-3012

Exhibit 2.2.2

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	06/26/01 06/26/01 06/26/01
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	01-06-1300 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	128	5
ISS #1	ND	1
IISS #2	ND	1
J-1	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	128	133	4	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	06/26/01
Work Order No:	01-06-1300
Preparation:	N/A
Method:	EPA TO-14A

Project: Penrose Landfill

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
J-1	**01-06-1300-4**	**06/26/01**	**Air**	**N/A**	**06/27/01**	**K010626A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	8.0	4.0	8		ppb (v/v)	Trichloroethene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethene	ND	4.0	8		ppb (v/v)	1,2-Dibromoethane	ND	4.0	8		ppb (v/v)
Methylene Chloride	ND	16	8		ppb (v/v)	Tetrachloroethene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethane	ND	4.0	8		ppb (v/v)	Chlorobenzene	ND	4.0	8		ppb (v/v)
Chloroform	ND	4.0	8		ppb (v/v)	p/m-Xylene	ND	8.0	8		ppb (v/v)
1,2-Dichloroethane	ND	4.0	8		ppb (v/v)	o-Xylene	ND	4.0	8		ppb (v/v)
1,1,1-Trichloroethane	ND	4.0	8		ppb (v/v)	Benzyl Chloride	ND	4.0	8		ppb (v/v)
Benzene	4.9	4.0	8		ppb (v/v)	1,3-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Carbon Tetrachloride	ND	4.0	8		ppb (v/v)	1,4-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Toluene	ND	4.0	8		ppb (v/v)	1,2-Dichlorobenzene	ND	4.0	8		ppb (v/v)

Method Blank	**095-01-021-1,375**	**N/A**	**Air**	**N/A**	**06/26/01**	**K010626A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	ND	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit . DF - Dilution Factor , Qual - Qualifiers

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EXHIBIT 3

PENROSE LANDFILL - Second Quarter 2001

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map (Route 1)

Exhibit 3.2: ILSS TAC Laboratory Results - June 26, 2001

Hydrogen Sulfide and TO-14A Analyses

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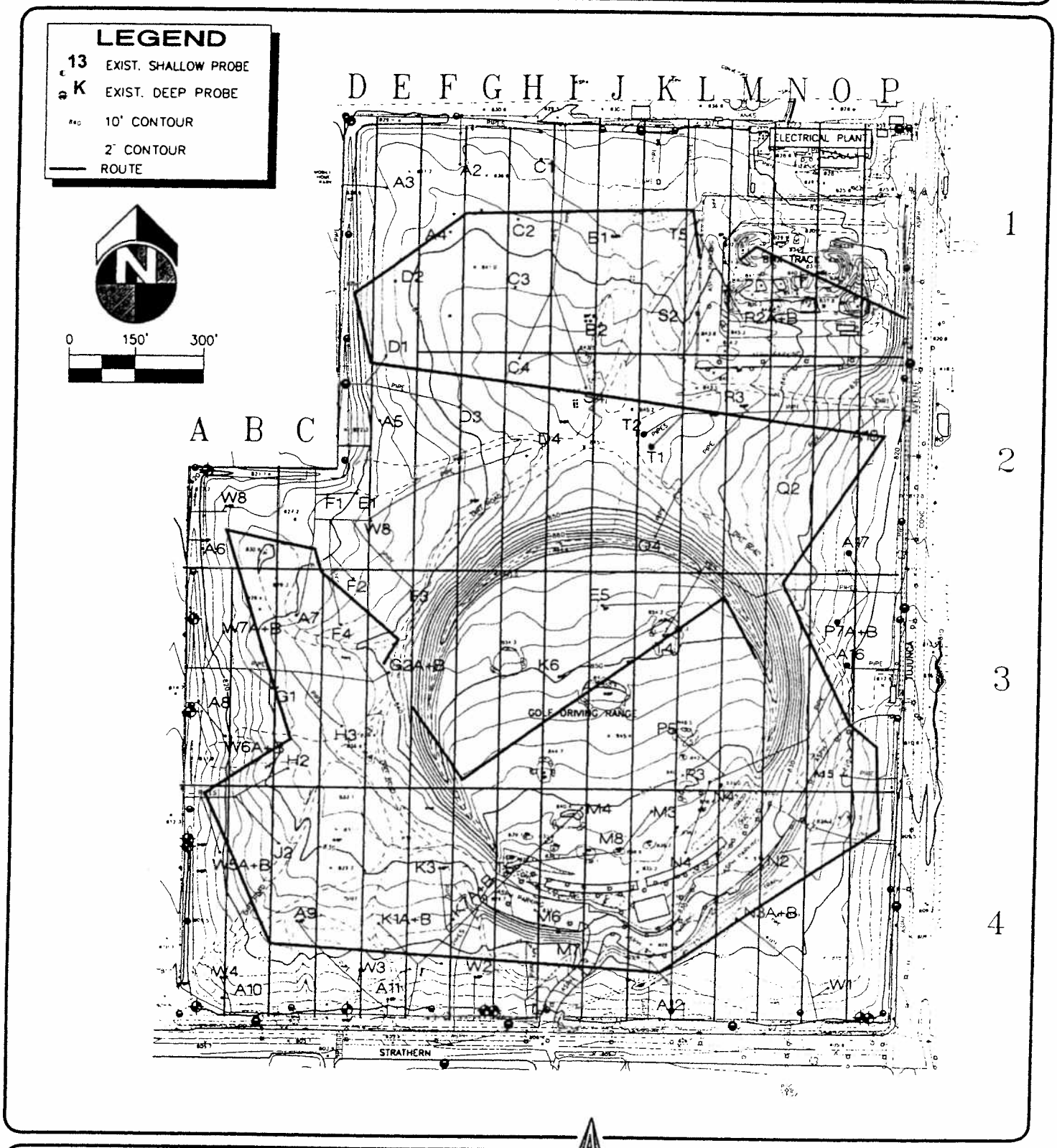
PENROSE LANDFILL

INTEGRATED SAMPLING ROUTE 1



SEPICH ASSOCIATES, Inc.
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Exhibit 3.1

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	06/26/01 06/26/01 06/26/01
Attn: Robert McAllister RE: Penrose Landfill	Work Order No.: Method: Page 1 of 1	01-06-1300 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
TSI	128	5
ISS #1	ND	1
IISS #2	ND	1
J-1	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TSI (Duplicate)	128	133	4	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

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L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 06/26/01
Work Order No: 01-06-1300
Preparation: N/A
Method: EPA TO-14A

Project: Penrose Landfill

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	01-06-1300-1	06/26/01	Air	N/A	06/26/01	K010626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	330	60	120		ppb (v/v)	Trichloroethene	120	60	120		ppb (v/v)
1,1-Dichloroethene	ND	60	120		ppb (v/v)	1,2-Dibromoethane	ND	60	120		ppb (v/v)
Methylene Chloride	390	240	120		ppb (v/v)	Tetrachloroethene	120	60	120		ppb (v/v)
1,1-Dichloroethane	ND	60	120		ppb (v/v)	Chlorobenzene	1400	60	120		ppb (v/v)
Chloroform	ND	60	120		ppb (v/v)	p/m-Xylene	7700	120	120		ppb (v/v)
1,2-Dichloroethane	ND	60	120		ppb (v/v)	o-Xylene	3600	60	120		ppb (v/v)
1,1,1-Trichloroethane	ND	60	120		ppb (v/v)	Benzyl Chloride	ND	60	120		ppb (v/v)
Benzene	1600	60	120		ppb (v/v)	1,3-Dichlorobenzene	72	60	120		ppb (v/v)
Carbon Tetrachloride	ND	60	120		ppb (v/v)	1,4-Dichlorobenzene	1000	60	120		ppb (v/v)
Toluene	8900	600	1200	D	ppb (v/v)	1,2-Dichlorobenzene	500	60	120		ppb (v/v)

ISS #1	01-06-1300-2	06/26/01	Air	N/A	06/27/01	K010626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	1.1	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.71	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	3.4	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

IISS #2	01-06-1300-3	06/26/01	Air	N/A	06/27/01	K010626A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	p/m-Xylene	1.1	1.0	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	o-Xylene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
Benzene	0.66	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	0.63	0.50	1		ppb (v/v)
Toluene	3.2	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

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(805) 552-0000
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(805) 552-0001

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

February 6, 2001

Attention: Senior Engineering Manager
Toxics and Waste Management Branch

Subject: Landfill Monitoring Report for Fourth Quarter, 2000
Penrose Landfill - 11501 Strathern Street, Sun Valley, California
SCAQMD Rule 1150.1 Compliance Plan

This is the twenty ninth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October through December 2000. This is the third quarterly report submitted under the recently approved, revised version of SCAQMD Rule 1150.1 for Penrose Landfill.

1. Reporting Requirements.

Quarterly: South Coast Air Quality Management District (SCAQMD), Rule 1150.1, Compliance Plan (the Rule), for a designated sanitary landfill at the northwest corner of Tujunga Avenue and Strathern Street, Sun Valley, requires quarterly reports, due 45 days after the end of the quarter, that address items specified in Section (f)(2)(B) of the Rule.

- (f)(2)(B)(i): Report all exceedances (including required re-sampling, re-monitoring, and corrective actions) of emission standards regarding subsurface refuse boundary probes (SRBP or compliance probes) monitoring (SRBPM) and sampling (SRBPS), integrated landfill surface sampling (ILSS), and instantaneous surface monitoring (ILSM).
- (f)(2)(B)(ii): Report all TAC (Toxic Air Contaminant) analyses required.

There were no SRBPM, ILSS, or ILSM exceedances during the fourth quarter of 2000.

The 2000 fourth quarter activities included the following monitoring and sampling requirements and events:

- Monitor (monthly) 78 Subsurface Refuse Boundary Probes (SRBPM = SCAQMD) compliance probe monitoring on October 30 and 31, November 28 and 30, and December 14; for TOC (non-compliance monitoring for City of Los Angeles, Environmental Affairs Department requirements on October 9, November 8, and December 12).
- Collect (quarterly) one bag sample, for TOC/TAC, from the Subsurface Refuse Boundary Probe (SRBPS = compliance probe sampling) with the highest concentration during any one of the monthly monitoring periods (Probe R @ 40' was sampled on December 20, 2000);

- Collect (quarterly) integrated samples (ILSS) to determine the concentration of TOC and TAC from the landfill surface (1 of 4 approved routes: Route #3 traversed, sampled and monitored for TOC December 14, 15, 18, 20, and 21; Grids H-4 and G-4 sampled for TAC laboratory analyses on December 21);
- Monitor (monthly) instantaneously (ILSM) to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west) (October 29: Path A, November 29: Path A, and December 13: Path B);
- Collect (quarterly) a landfill gas sample for analysis to determine the concentration of TOC and TAC from the main gas collection header line (herein referred to as TSI for treatment system inlet) entering the gas treatment system (December 20); and,
- Collect (annually) ambient air samples (AAS) to determine the concentration of TOC and TAC from upwind (background) locations and downwind locations. Per Attachment A, Section 5.1: "....ambient air samples shall be collected for analysis at the landfill property boundary from both an upwind and downwind sampler sited to provide good meteorological exposure to the predominant offshore (drainage land breeze) and on-shore (sea breeze) wind flow patterns. The upwind and downwind samples shall be collected simultaneously over two 12 hour periods beginning between 9:00 a.m. and 10:00 a.m., and 9:00 p.m. and 10:00 p.m. on the same day or different days." (sampled December 20 and 21, 2000).

Record Keeping: Section (f)(1) of the Rule describes the record keeping requirements.

2. Control System - Ogden Pacific Power, Penrose Power Plant.

Power Plant Requirements: The electric power plant operates under, and is compliant to a valid Permit to Construct and a valid Permit to Operate. All specifications and data required by the Rule are available at Ogden's Plant at 8301 Tujunga Avenue, Sun Valley.

Main Header Sample Results: The lab results for this sampling event are included in EXHIBIT 1 (sample TSI).

3. Compliance Probe Monitoring Results.

Compliance probe monitoring (SRBPM) was performed on October , November , and December 14, 2000. Results: There were no exceedances detected in compliance probes during the fourth quarter 2000 monitoring.

4. Compliance Probe Sampling Results: A probe TAC sample was collected on December 20, 2000 from Probe R at 40 feet. The field TOC was non-detect. The lab results (sample I.D. PPSR40, included in EXHIBIT 2) indicated minor concentrations of benzene, toluene, PCE, and xylene with all other TO-15 analytes (and H_2S) not detected at the reporting limits of the methods used.

5. Integrated Landfill Surface Sampling (ILSS) Results (see traverse map in EXHIBIT 3.1).

Monitoring/Sampling Results: TOC results are presented on the quality control sheets (QCS) in EXHIBIT 3.2. All 58 samples registered non-detect as measured by the Foxboro FID. TAC

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results are included as laboratory results (samples ISS#1 and ISS#2) in EXHIBIT 3.3.

The wind parameters during the sampling period were measured with a hand held instrument as allowed by the Rule. ILSS is not performed when wind speed is 5 mph or greater.

6. Instantaneous Landfill Surface Monitoring (ILSM) Results.

Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring over approved Path A (north-south) or Path B (east-west) traverses. TOC results are presented on the traverse maps in EXHIBIT 4. The monthly ILSM all registered non-detect during the fourth quarter 2000, therefore no values are entered on the maps.

7. Ambient Air Sampling (AAS) Results.
AAS Requirements: AAS as approved by SCAQMD requires annual sampling to determine the concentration of TOC and TAC from upwind (background) locations and downwind locations, collected simultaneously over two 12 hour periods beginning between 9:00 a.m. and 10:00 a.m., and 9:00 p.m. and 10:00 p.m. on the same day or different days." AAS were collected on December 20 and 21, 2000. AAS TAC results are included as laboratory results (samples AAS-NW#1, AAS-SE#1, AAS-NW#2, and AAS-SE#2) in EXHIBIT 5. The weather station that was set up malfunctioned and no wind parameters were recorded during the sampling period.

8. Toxic Air Contaminant Results: As required by Section (f)(2)(B)(ii) of the Rule, fourth quarter 2000 laboratory TAC analytical results are included in the Exhibits as follows:

- Header Inlet (TSI) EXHIBIT 1;
- SRBPS (PPSR40) EXHIBIT 2;
- ILSS (ISS#1, ISS#2) EXHIBIT 3.3; and
- AAS (AAS-NW#1, -SE#1, -NW#2, -SE#2) EXHIBIT 5.

9. Certification: This quarterly report and certification is based upon Sepich Associates'/Methane Specialists' understanding of the situation, all as described above. Any new information or change in existing conditions with respect to the site, buildings, soil gas, or other factors should be brought immediately to our attention.

I hereby certify that I am a registered civil engineer of the State of California, that I am knowledgeable in the field of landfill gas migration control and monitoring, that the monitoring and sampling for landfill gas emissions and migration and the mitigation measures at Penrose Landfill during the Fourth Quarter of 2000 were performed by me or persons under my direct supervision, and that I assume professional responsibility for the validity and accuracy of this report.

Sincerely, Methane Specialists

John Sepich, P. E.

J152rept.629

Distribution: SCAQMD, Senior Engineering Manager, Toxics and Waste Management Branch

Los Angeles By-Products Company, Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department, Mr. George M. Payba

California Integrated Waste Management Board, Mr. Peter Janicke

Enclosures: for Fourth Quarter 2000

EXHIBIT 1 Control Device Laboratory Results

EXHIBIT 2 SRBPS Laboratory Results

EXHIBIT 3 Integrated Landfill Surface Sampling (ILSS) Documentation
Exhibit 3.1: ILSS Traverse Map
Exhibit 3.2: ILSS Quality Control Sheet
Exhibit 3.3: ILSS TAC Laboratory Results

EXHIBIT 4 Instantaneous Landfill Surface Monitoring Documentation

EXHIBIT 5 AAS TAC Laboratory Results

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EXHIBIT 1

PENROSE LANDFILL - Fourth Quarter 2000

Control Device Laboratory Results

from the Header Inlet

Hydrogen Sulfide - December 20, 2000

TO-15 - December 20, 2000

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Calscience Environmental Laboratories, Inc.

January 05, 2001

Robert McAllister
L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Subject: **Calscience Work Order No.: 00-12-0958**
Client Reference: Penrose Landfill / J152-6

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/21/00 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

William H. Christensen
Quality Assurance Manager

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504		Date Sampled: Date Received: Date Analyzed:	12/21/00 12/21/00 12/21/00
Attn: Robert McAllister RE: Penrose Landfill / J152-6		Work Order No.: Method: Page 1 of 1	00-12-0958 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
ISS#1	ND	1
ISS#2	ND	1
PPSR40	ND	1
TSI	45	1
AAS-SE#1	ND	1
AAS-SE#2	ND	1
AAS-NW#1	ND	1
AAS-NW#2	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
00-12-0933-3 (Duplicate)	2.2	2.4	9	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	12/21/00
Work Order No:	00-12-0958
Preparation:	N/A
Method:	EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	00-12-0958-4	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	270	8	16		ppb (v/v)	1,2-Dibromoethane	ND	8.0	16		ppb (v/v)
1,1-Dichloroethene	43	8	16		ppb (v/v)	Trichloroethene	130	8	16		ppb (v/v)
Methylene Chloride	33	32	16		ppb (v/v)	Tetrachloroethene	140	8	16		ppb (v/v)
1,1-Dichloroethane	20	8	16		ppb (v/v)	Chlorobenzene	1100	8	16	E	ppb (v/v)
Chloroform	ND	8.0	16		ppb (v/v)	Xylenes (total)	6900	24	16	E	ppb (v/v)
1,2-Dichloroethane	8.3	8.0	16		ppb (v/v)	Benzyl Chloride	ND	8.0	16		ppb (v/v)
1,1,1-Trichloroethane	ND	8.0	16		ppb (v/v)	1,3-Dichlorobenzene	18	8	16		ppb (v/v)
Benzene	1500	8	16	E	ppb (v/v)	1,4-Dichlorobenzene	620	8	16		ppb (v/v)
Carbon Tetrachloride	ND	8.0	16		ppb (v/v)	1,2-Dichlorobenzene	160	8	16		ppb (v/v)
Toluene	4000	8	16	E	ppb (v/v)						

AAS-SE#1	00-12-0958-5	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.58	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	4.4	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	2.2	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.9	0.5	1		ppb (v/v)						

AAS-SE#2	00-12-0958-6	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	1.4	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	4.3	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.6	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.4	0.5	1		ppb (v/v)						

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RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	12/21/00
Work Order No:	00-12-0958
Preparation:	N/A
Method:	EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
AAS-NW#1	00-12-0958-7	12/21/00	Air	N/A	12/23/00	K001223A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.0	4		ppb (v/v)	1,2-Dibromoethane	ND	2.0	4		ppb (v/v)
1,1-Dichloroethene	ND	2.0	4		ppb (v/v)	Trichloroethene	ND	2.0	4		ppb (v/v)
Methylene Chloride	ND	8.0	4		ppb (v/v)	Tetrachloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethane	ND	2.0	4		ppb (v/v)	Chlorobenzene	ND	2.0	4		ppb (v/v)
Chloroform	ND	2.0	4		ppb (v/v)	Xylenes (total)	ND	6.0	4		ppb (v/v)
1,2-Dichloroethane	ND	2.0	4		ppb (v/v)	Benzyl Chloride	ND	2.0	4		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0	4		ppb (v/v)	1,3-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Benzene	2.6	2.0	4		ppb (v/v)	1,4-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Carbon Tetrachloride	ND	2.0	4		ppb (v/v)	1,2-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Toluene	9.5	2.0	4		ppb (v/v)						

AAS-NW#2	00-12-0958-8	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	2.3	2.0	1		ppb (v/v)	Tetrachloroethene	2.9	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	5.9	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.9	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	7.1	0.5	1		ppb (v/v)						

Method Blank	095-01-021-1,184	N/A	Air	N/A	12/23/00	K001223A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	12/21/00
Work Order No:	00-12-0958
Preparation:	N/A
Method:	EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	095-01-021-1,185	N/A	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)						

000546

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received:	12/21/00
Work Order No:	00-12-0958
Preparation:	N/A
Method:	EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,184	Air	GC/MS K	N/A	12/23/00	K001223A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	92	93	60-140	1	0-30	
1,2-Dichloroethane	101	100	60-140	1	0-30	
Benzene	89	89	60-140	0	0-30	
Carbon Tetrachloride	92	91	60-140	1	0-30	
1,2-Dibromoethane	84	83	60-140	0	0-30	
Trichloroethene	82	82	60-140	0	0-30	
Tetrachloroethene	85	85	60-140	0	0-30	
1,4-Dichlorobenzene	87	87	60-140	1	0-30	
1,2-Dichlorobenzene	87	88	60-140	1	0-30	

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 12/21/00
Work Order No: 00-12-0958
Preparation: N/A
Method: EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-1,185	Air	GC/MS K	N/A	12/24/00	K001224A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	88	88	60-140	0	0-30	
1,2-Dichloroethane	97	98	60-140	1	0-30	
Benzene	88	90	60-140	2	0-30	
Carbon Tetrachloride	95	96	60-140	1	0-30	
1,2-Dibromoethane	84	87	60-140	3	0-30	
Trichloroethene	82	81	60-140	1	0-30	
Tetrachloroethene	82	83	60-140	1	0-30	
1,4-Dichlorobenzene	90	89	60-140	1	0-30	
1,2-Dichlorobenzene	94	91	60-140	3	0-30	

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BAG SAMPLE CUSTODY FORM

Project PENROSE LANDFILL

Date: 12-21-00

Bag (I.D.#)	ISS#1 (H-4)	ISS#2 (G-4)	PPSR40	TSI	Al	AAS-SE #1 (ATE)	AAS-SE #2 (ATE)	AAS-NW #1 (ATE)	AAS-NW #2 (ATE)	
Condition Received in Lab*										

Analyses Requested: (CORE GROUP) TO 15 - H_2S -

Bags Prepared By: Robert McAllister Time: Alex Fenchel 0900 12/20/00

Bags Taken Out By: Robert West 12-21-00 Date: Alex Fenchel 0930 12/21/00 Time: 10:35 am.

Bags Taken to Lab By: Time: 12/21/00 1036 AM

Bags Received In Lab By: Time: 12/21/00 - 1310

* F = ½ full to full, O = Overfull (Bulging), L = ¼ to ½ full,

E = Less than ¼ full but contains some sample, N = No sample at all.

J152TABL.608

EXHIBIT 2

PENROSE LANDFILL - Fourth Quarter 2000

SRBPS Laboratory Results

Hydrogen Sulfide - December 20, 2000

TO-15 - December 20, 2000

CONFIDENTIA

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	12/21/00 12/21/00 12/21/00
Attn: Robert McAllister RE: Penrose Landfill / J152-6	Work Order No.: Method: Page 1 of 1	00-12-0958 GC/FPD

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
ISS#1	ND	1
ISS#2	ND	1
PPSR40	ND	1
TSI	45	1
AAS-SE#1	ND	1
AAS-SE#2	ND	1
AAS-NW#1	ND	1
AAS-NW#2	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
00-12-0933-3 (Duplicate)	2.2	2.4	9	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

000551

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	12/21/00
Work Order No:	00-12-0958
Preparation:	N/A
Method:	EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS#1	00-12-0958-1	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	3.4	2.0	1		ppb (v/v)	Tetrachloroethene	1.5	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	6.7	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	4.4	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	11	0.50	1		ppb (v/v)						

ISS#2	00-12-0958-2	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	2.5	2.0	1		ppb (v/v)	Tetrachloroethene	0.77	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	6.2	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	4.0	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	9.7	0.5	1		ppb (v/v)						

PPSR40	00-12-0958-3	12/21/00	Air	N/A	12/24/00	K001223A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	1.3	2.5		ppb (v/v)	1,2-Dibromoethane	ND	1.3	2.5		ppb (v/v)
1,1-Dichloroethene	ND	1.3	2.5		ppb (v/v)	Trichloroethene	ND	1.3	2.5		ppb (v/v)
Methylene Chloride	ND	5.0	2.5		ppb (v/v)	Tetrachloroethene	1.9	1.3	2.5		ppb (v/v)
1,1-Dichloroethane	ND	1.3	2.5		ppb (v/v)	Chlorobenzene	ND	1.3	2.5		ppb (v/v)
Chloroform	ND	1.3	2.5		ppb (v/v)	Xylenes (total)	7.3	3.8	2.5		ppb (v/v)
1,2-Dichloroethane	ND	1.3	2.5		ppb (v/v)	Benzyl Chloride	ND	1.3	2.5		ppb (v/v)
1,1,1-Trichloroethane	ND	1.3	2.5		ppb (v/v)	1,3-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Benzene	4.3	1.3	2.5		ppb (v/v)	1,4-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Carbon Tetrachloride	ND	1.3	2.5		ppb (v/v)	1,2-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Toluene	13	1	2.5		ppb (v/v)						

000552

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

EXHIBIT 3

PENROSE LANDFILL - Fourth Quarter 2000

Integrated Landfill Surface Sampling (ILSS) Documentation

Exhibit 3.1: ILSS Traverse Map

Exhibit 3.2: ILSS Quality Control Sheets

Exhibit 3.3: ILSS TAC Laboratory Results

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Exhibit 3.1

Integrated Landfill Surface Sampling Map

Route Traversed and Sampled December 14, 15, 18, 20, and 21, 2000

CONFIDENTIAL

J152-6

PENROSE LANDFILL
INTEGRATED SAMPLING ROUTE 3

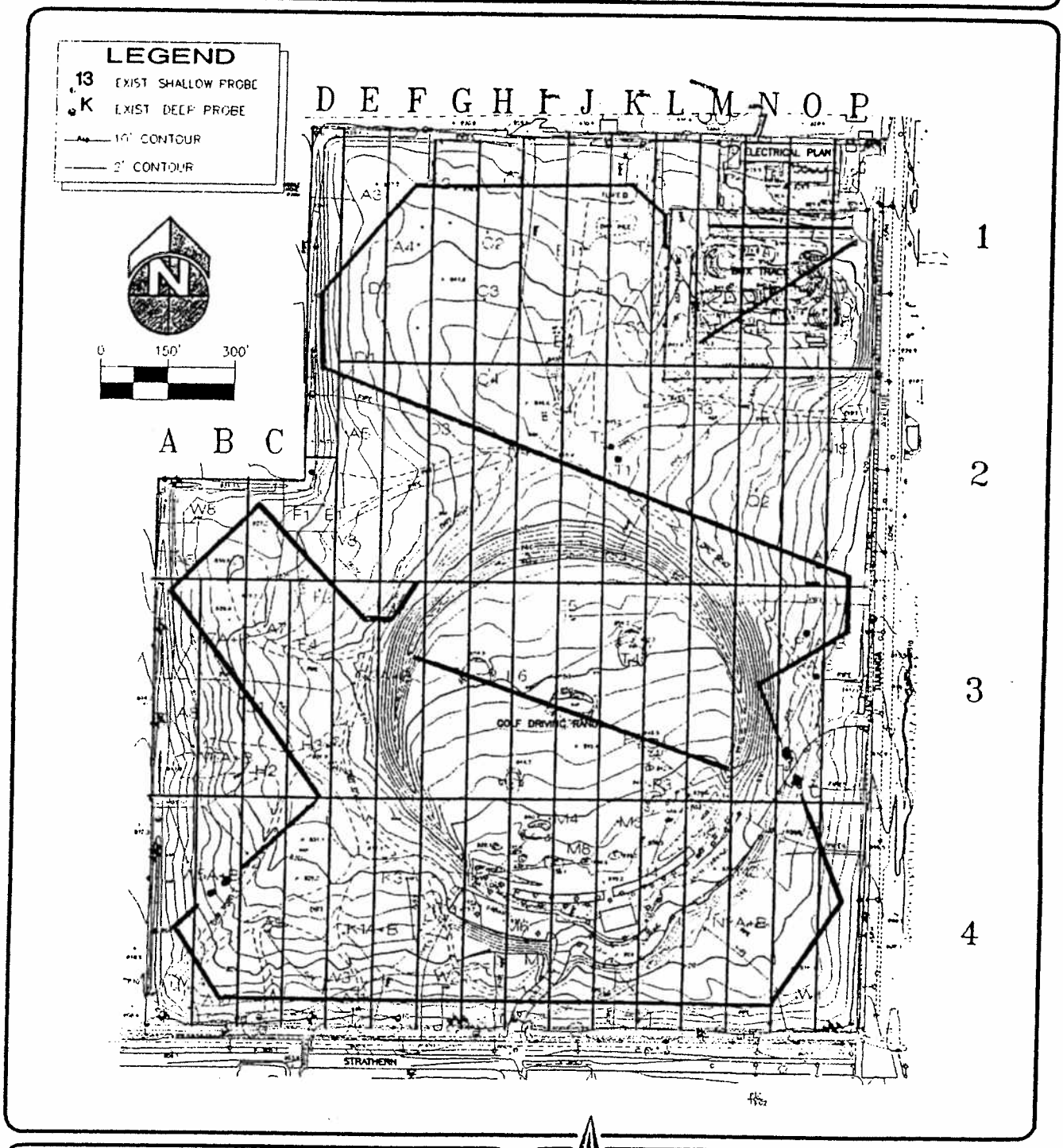

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Exhibit 3.2

ILSS Quality Control Sheets - December 14 - 21, 2000

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PENROSE LANDFILL, SUN VALLEY - QUALITY CONTROL SHEET for INTEGRATED SURFACE SAMPLES (ISS)

- Parameters applicable to monitoring / sampling for Integrated Surface Samples.
- Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample.
- All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

OPERATION					BAG SAMPLES				OVA	COMMENTS
GRIDS TRAVERSED	DATE	Wind Speed	Time On	Time Off	I.D. #	Valve Open	Rotameter Reading	Pump (On/Off)	~~TOC~~ TAC	
K-2	12-14	2.9	8:16.51	8:18.29	J152-6		400		ND	
J-2	12-14	1.6	8:20.00	8:21.44						
I-2		2.3	8:23.44	8:25.46						
H-2		3.1	8:27.29	8:30.05						
G-2		1.9	8:31.19	8:34.01						
F-2		3.3	8:36.04	8:38.39						
E-2		.4	9:02.23	9:04.55						
D-2		0.0	9:06.04	9:08.48						
L-2		.3	10:12.50	10:15.20						
M/N-3		3.1	10:17.17	10:20.00						
O/P-3		3.0	10:21.31	10:24.12						
P-2		0.5	10:24.44	10:28.20						

NOTES: CLEAR- COOL TO WARM TEMP -
12-14-00

J15ZTABL.603

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PENROSE LANDFILL, SUN VALLEY - QUALITY CONTROL SHEET for INTEGRATED SURFACE SAMPLES (ISS)

- Parameters applicable to monitoring / sampling for Integrated Surface Samples.
- Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample.
- All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

OPERATION					BAG SAMPLES					COMMENTS
GRIDS TRAVERSED	DATE	Wind Speed	Time On	Time Off	I.D. #	Valve Open	Rotameter Reading	Pump (On/Off)	TOC TAC	
O-2	12-14	0.0	10:30.08	10:32.52	J152-4		400 cc/min		ND	
N-2		1.3	10:34.07	10:36.50						
M-2		1.0	10:37.00	10:41.40						
M-1		0.6	10:43.16	10:45.52						
N-1		0.0	11:27.22	11:29.50						
O-1		3.8	11:31.42	11:34.20						
P-1		1.3	11:35.47	11:38.28						
L-1		1.7	11:39.50	11:42.36						
K-1		0.2	11:44.00	11:46.41						
J-1		1.0	11:48.32	11:51.35						
I-1		2.7	11:53.14	11:55.54						
H-1		0.1	11:57.31	12:00.22						

NOTES:

JJSZTRBL.603

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PENROSE LANDFILL, SUN VALLEY - QUALITY CONTROL SHEET for INTEGRATED SURFACE SAMPLES (ISS)

- Parameters applicable to monitoring / sampling for Integrated Surface Samples.
- Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample.
- All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

OPERATION					BAG SAMPLES					COMMENTS
GRIDS TRAVERSED	DATE	Wind Speed	Time On	Time Off	I.D. #	Valve Open	Rotameter Reading	Pump (On/Off)	TOC TAC	
B-2	12-15	1.4	8:16.33	8:19.08	J1526		400cc/min		ND	
A-1	12-15	.8	8:20.31	8:23.12						
B-1	12-15	.4	8:24.15	8:26.56						
C-1		.7	8:28.43	8:31.21						
D-1		1.5	8:32.50	8:35.32						
E-1		.6	8:37.22	8:40.06						
F-1		3.5	8:42.16	8:44.48						
G-1		1.1	8:46.55	8:49.38						
C-2	12-18	.5	8:42.34	8:45.11						
B-2	12-18	3.2	8:47.20	8:49.55						
A-2		1.4	8:51.39	8:55.02						
A-3		3.8	9:08.35	9:11.40						

NOTES: OVERCAST - COOL TEMP -
12-15-00

J15ZTABL.603

PENROSE LANDFILL, SUN VALLEY - QUALITY CONTROL SHEET for INTEGRATED SURFACE SAMPLES (ISS)

- Parameters applicable to monitoring / sampling for Integrated Surface Samples.
- Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample.
- All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

OPERATION					BAG SAMPLES					COMMENTS
GRIDS TRAVERSED	DATE	Wind Speed	Time On	Time Off	I.D. #	Valve Open	Rotameter Reading	Pump (On/Off)	TOC TAC	
B-3	12-18	1.3	9:13.32	9:16.23	J1526		400 cc/min		ND	
C-3		4.4	9:17.59	9:20.22						
D-3		3.3	9:22.37	9:25.30						
E-3		4.8	9:27.04	9:29.42						
F-3		4.3	11:02.25	11:05.08						
G-3		2.5	11:06.29	11:09.06						
H-3		4.3	11:10.33	11:13.09						
I-3		.7	11:14.48	11:17.36						
J-3		1.1	11:19.17	11:22.03						
K-3		3.5	11:23.43	11:26.34						
L-3		4.5	11:28.10	11:30.52						
M-3		3.8	11:32.28	11:35.08						

NOTES: Hot - Clear weather - Sunny -

12-18-00 South WIND -

J15ZTRBL.503

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PENROSE LANDFILL, SUN VALLEY - QUALITY CONTROL SHEET for INTEGRATED SURFACE SAMPLES (ISS)

- Parameters applicable to monitoring / sampling for Integrated Surface Samples.
- Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample.
- All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

OPERATION					BAG SAMPLES					COMMENTS
GRIDS TRAVERSED	DATE	Wind Speed	Time On	Time Off	I.D. #	Valve Open	Rotameter Reading	Pump (On/Off)	TOC TAC	
H-4	12-20	1.8	1:13.54	1:16.38	J152-6		400 cc/min		ND	
G-4	12-20	3.9	1:18.06	1:21.57						
F-4	12-20	2.7	1:23.27	1:26.40						
E-4	12-20	4.4	1:28.58	1:32.39						
PPS-R40'	12-20	1.2	1:50.00	2:13.55					.6%	
A-4	12-21	1.5	8:05.36 am	8:08.01					ND	
B-4		1.8	8:09.44	8:12.18						
C-4		0.0	8:15.15	8:17.51						
D-4		.9	8:19.35	8:22.40						
I-4		2.8	8:40.36	8:43.13						
J-4		0.0	8:45.08	8:47.47						
K-4		.2	8:48.56	8:51.34						

NOTES: 12-20-00 - HOT - WIND CAME UP - CRYSTAL CLEAR - NO CLOUDS - BLUE SKIES -

J152TABL.603

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PENROSE LANDFILL, SUN VALLEY - QUALITY CONTROL SHEET for INTEGRATED SURFACE SAMPLES (ISS)

- Parameters applicable to monitoring / sampling for Integrated Surface Samples.
- Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample.
- All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

OPERATION					BAG SAMPLES					COMMENTS
GRIDS TRAVERSED	DATE	Wind Speed	Time On	Time Off	I.D. #	Valve Open	Rotameter Reading	Pump (On/Off)	TOC TAC	
L-4	12-21	1.9	8:52.48	8:55.39	JS2-6		400 cc/min		ND	
TSI	12-20	—	—	—					41.%	
ISS#1 H-4	12-21	.8	9:11.00	9:27.31			400 cc/min		ND	
ISS#2 G-4	12-21	1.4	9:32.58	9:48.22			400 cc/min		ND	

NOTES:

12-21-00 - HAZY CLEAR NO CLOUDS - COOL TEMP - BRIGHT SUNSHINE

JISZTABL.603

Exhibit 3.3

ILSS Laboratory Results

Toxic Air Contaminants (TAC) - December 21, 2000

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.		Date Sampled:	12/21/00
444 Irving Drive, Suite 101		Date Received:	12/21/00
Burbank, CA 91504		Date Analyzed:	12/21/00
		Work Order No.:	00-12-0958
Attn: Robert McAllister		Method:	GC/FPD
RE: Penrose Landfill / J152-6		Page 1 of 1	

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
ISS#1	ND	1
ISS#2	ND	1
PPSR40	ND	1
TSI	45	1
AAS-SE#1	ND	1
AAS-SE#2	ND	1
AAS-NW#1	ND	1
AAS-NW#2	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
00-12-0933-3 (Duplicate)	2.2	2.4	9	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

000594

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	12/21/00
Work Order No:	00-12-0958
Preparation:	N/A
Method:	EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS#1	00-12-0958-1	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	3.4	2.0	1		ppb (v/v)	Tetrachloroethene	1.5	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	6.7	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	4.4	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	11	0.50	1		ppb (v/v)						

ISS#2	00-12-0958-2	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	2.5	2.0	1		ppb (v/v)	Tetrachloroethene	0.77	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	6.2	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	4.0	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	9.7	0.5	1		ppb (v/v)						

PPSR40	00-12-0958-3	12/21/00	Air	N/A	12/24/00	K001223A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	1.3	2.5		ppb (v/v)	1,2-Dibromoethane	ND	1.3	2.5		ppb (v/v)
1,1-Dichloroethene	ND	1.3	2.5		ppb (v/v)	Trichloroethene	ND	1.3	2.5		ppb (v/v)
Methylene Chloride	ND	5.0	2.5		ppb (v/v)	Tetrachloroethene	1.9	1.3	2.5		ppb (v/v)
1,1-Dichloroethane	ND	1.3	2.5		ppb (v/v)	Chlorobenzene	ND	1.3	2.5		ppb (v/v)
Chloroform	ND	1.3	2.5		ppb (v/v)	Xylenes (total)	7.3	3.8	2.5		ppb (v/v)
1,2-Dichloroethane	ND	1.3	2.5		ppb (v/v)	Benzyl Chloride	ND	1.3	2.5		ppb (v/v)
1,1,1-Trichloroethane	ND	1.3	2.5		ppb (v/v)	1,3-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Benzene	4.3	1.3	2.5		ppb (v/v)	1,4-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Carbon Tetrachloride	ND	1.3	2.5		ppb (v/v)	1,2-Dichlorobenzene	ND	1.3	2.5		ppb (v/v)
Toluene	13	1	2.5		ppb (v/v)						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

EXHIBIT 4

PENROSE LANDFILL - Fourth Quarter 2000

Instantaneous Landfill Surface Monitoring Documentation

Traverse Maps with Routes Traversed October 29, November 29, and December 13, 2000

ILSM Requirements: Instantaneous surface monitoring as approved by SCAQMD requires monthly monitoring to determine the concentration of TOC from the landfill surface along approved Path A (north-south) or approved Path B (east-west) (October 29: Path A, November 29: Path A, and December 13: Path B).

Monitoring Results: TOC results are presented on the traverse maps. The landfill surface monitoring registered non-detect for all three of the ILSM events. Due to the non-detect results, no values are entered on the maps.

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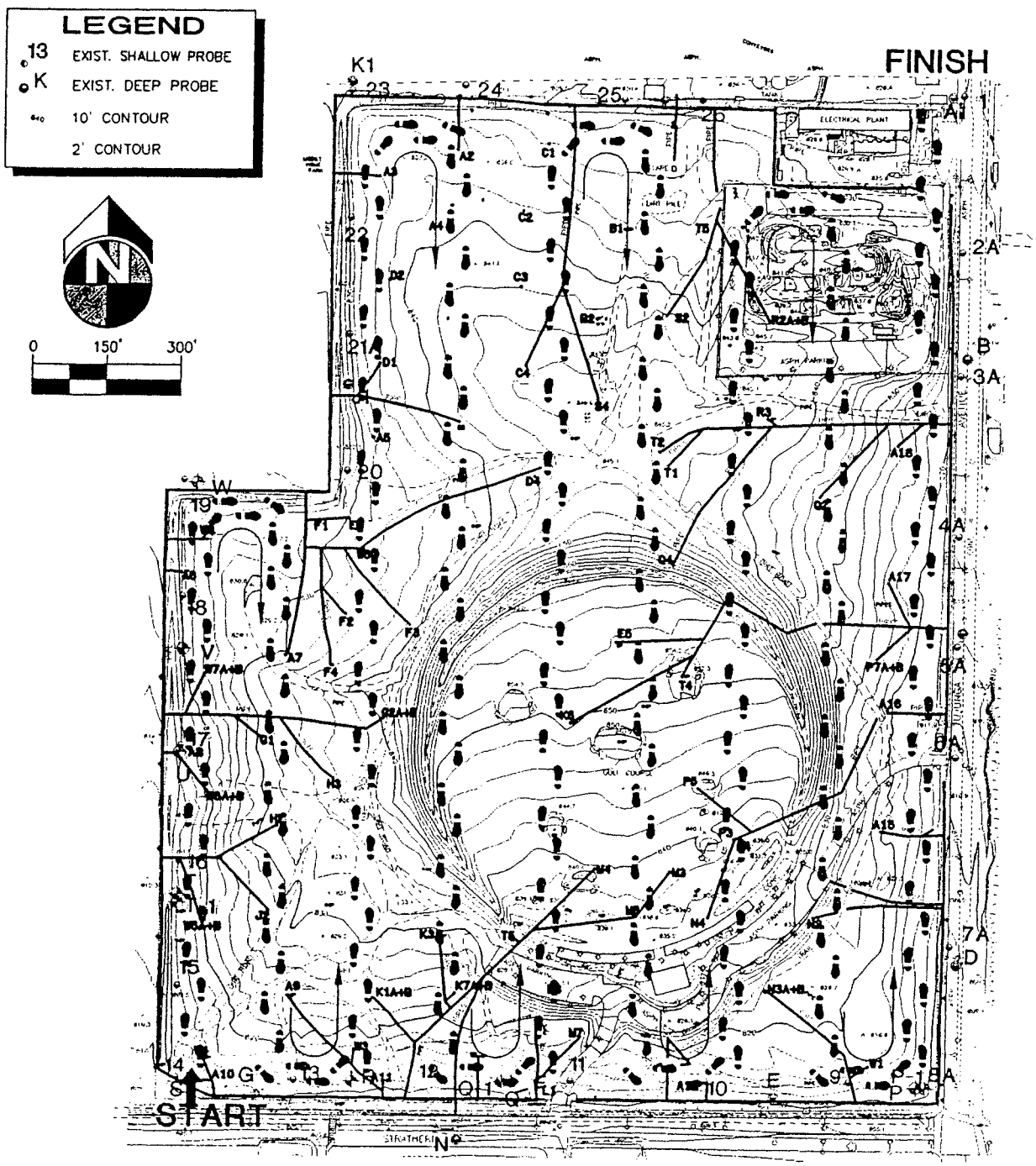
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

8-31-00

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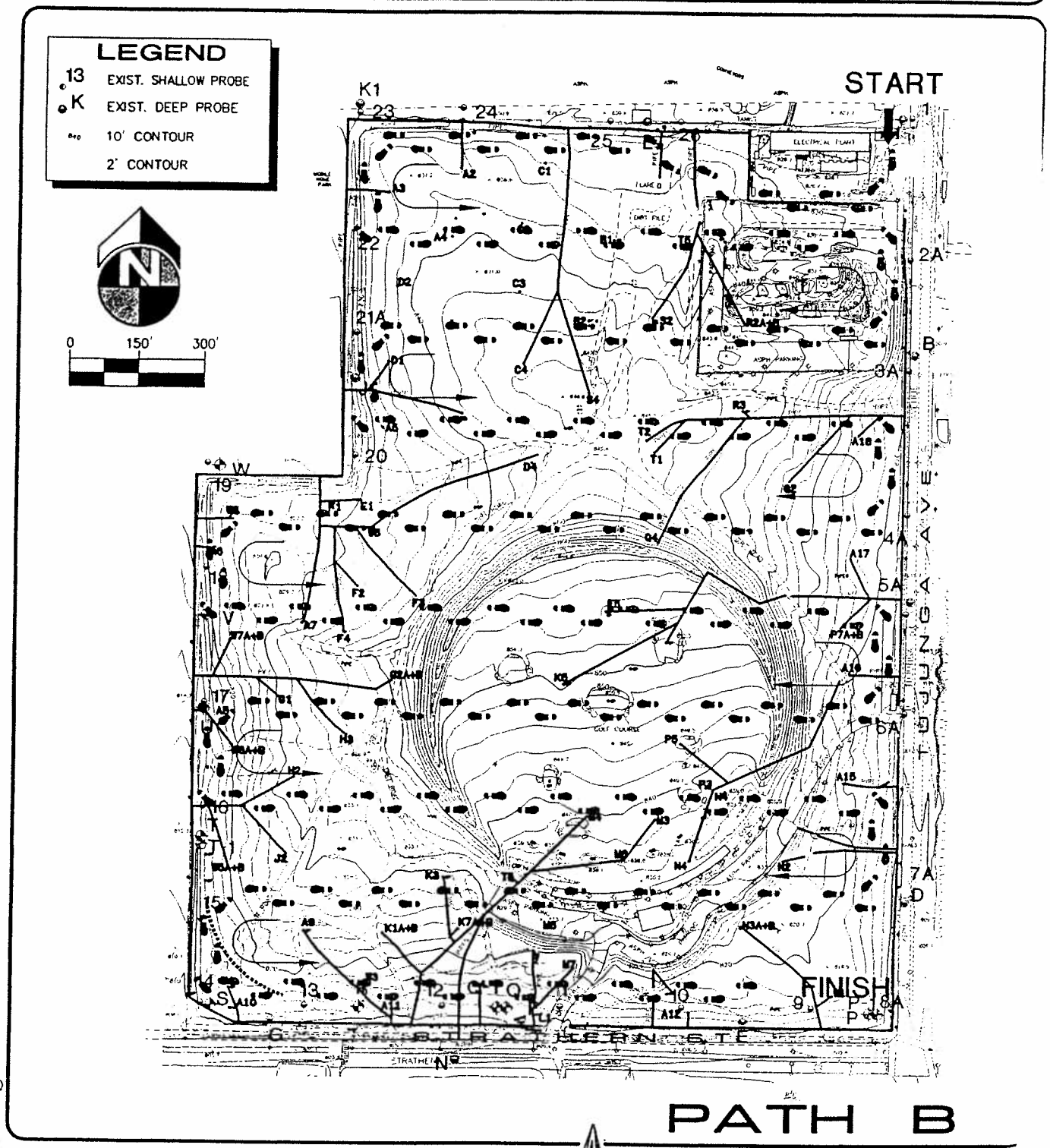

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8-31-00
8-4-99
1-10-99 15:/PATH B

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EXHIBIT 5

PENROSE LANDFILL - Fourth Quarter 2000

Ambient Air Sampling (AAS) TAC Laboratory Results

NOTE: The Climatronics, Electronic Weather Station (EWS), used at the site, was equipped to continuously record wind speed, temperature, and wind direction on a strip chart. The EWS uses a 3 cup wind speed assembly, with a range of 0 to 100 mph, an accuracy of ±0.025 mph (chart resolution of ±0.5 mph), and a threshold of 0.75 mph; and a wind direction vane, with a range of 0 to 540 degrees azimuth, with an accuracy of ±1.5%.

The EWS was set by orienting the cross bar east-west with a compass according to the instructions. Had there been any usable records, the true cardinal directions would have been hand printed later on the strip chart to adjust for the 14° magnetic declination present in this region.

The EWS was employed, however, the strip chart mechanism on the EWS malfunctioned and could not be repaired. Thus no wind speed or wind direction information was obtained.

AAS Location Map

AAS Laboratory Results

AAS Toxic Air Contaminants (TAC) - December 20 and 21, 2000

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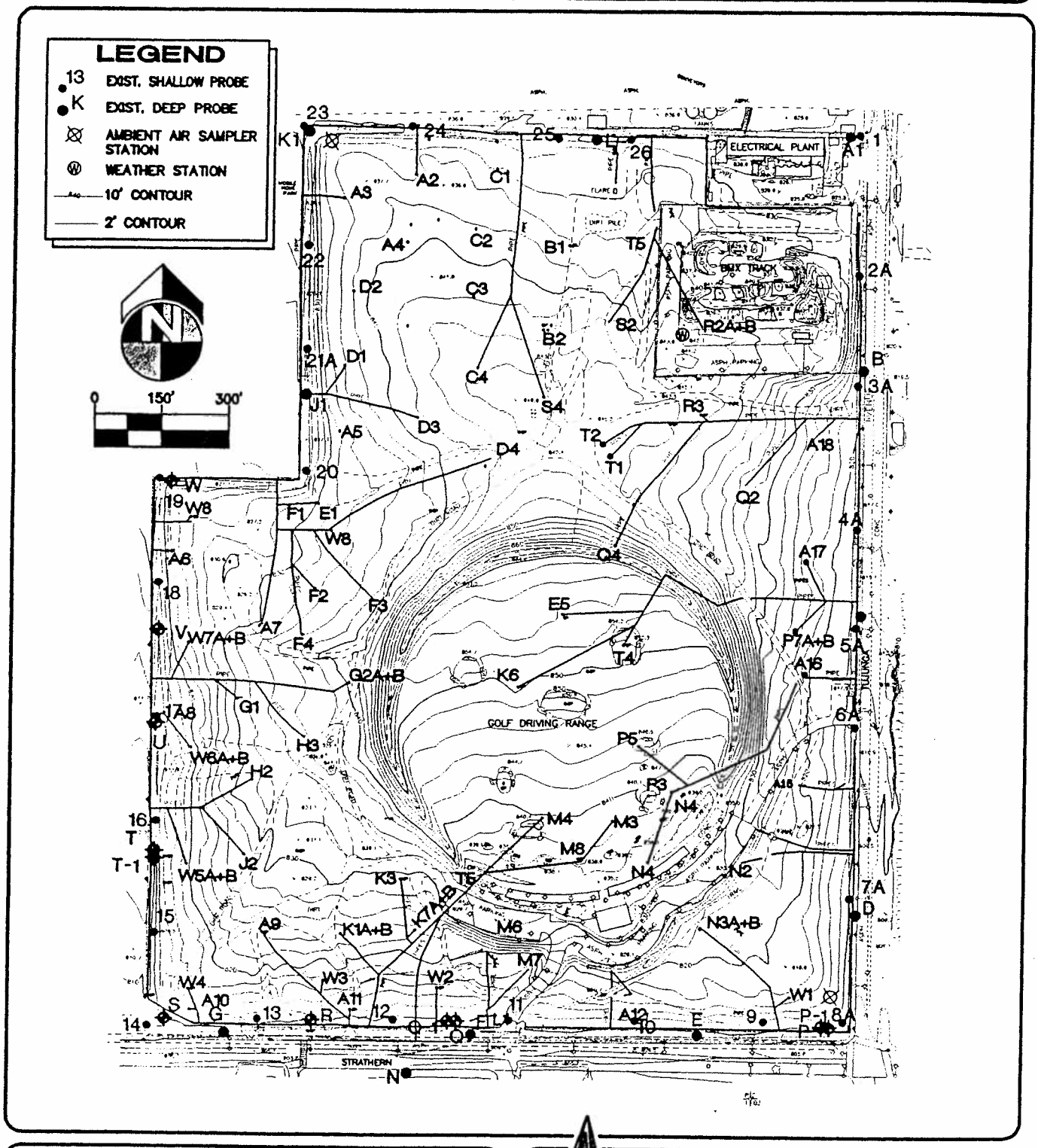
PENROSE LANDFILL MONITORING PROBE LOCATIONS

J152-6



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PENROSE LANDFILL, SUN VALLEY - QUALITY CONTROL SHEET for AMBIENT AIR SAMPLES (AAS)

- Parameters applicable to monitoring / sampling Ambient Air.
- Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample.
- All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

OPERATION					BAG SAMPLES					COMMENTS
LOCATION up down-wind	DATE	Wind Speed	Time On	Time Off	I.D. #	Valve Open	Rotameter Reading	Pump (On/Off)	TOC ~~TAC~~	ANALYTE
Down-NW	12-20-00	NA	0930	2130	AAS-NW#1	0930	26-30 mm. ≈15cc/min	0930 2130	ND	TO 15 & H_2S
Up-SE	12-20-00	NA	0940	2140	AAS-SE#1	0940	"	0940 2140	ND	"
Up-NW	12-20-00 12-21-00	NA	2130 12-20-00	0930 12-21-00	AAS-NW#2	2130	"	2130/12/20 0930/12/21	0.5ppm	"
Down-SE	12-20-00 12-21-00	NA	2140 12-20-00	0940 12-21-00	AAS-SE#2	2140	"	2140/12/20 0940/12/21	ND	"

NOTES: Climatronics EWS setup 12-19-00: strip chart malfunction - missing part not available. No wind data attained. FID for TOC was LABP's Foxboro Century 128 set at 0-10ppm scale - all TOC reads at ~1000hr 12/21/00. All 10-liter bags were new. Samples were delivered to CEL 12/21/00 for TAC analyses.

J152TABL.606

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Sampled: 12/21/00
Date Received: 12/21/00
Date Analyzed: 12/21/00

Work Order No.: 00-12-0958
Method: GC/FPD
Page 1 of 1

Attn: Robert McAllister
RE: Penrose Landfill / J152-6

All concentrations are reported in ppm (v/v).

Sample Number	Hydrogen Sulfide Concentration	Reporting Limit
ISS#1	ND	1
ISS#2	ND	1
PPSR40	ND	1
TSI	45	1
AAS-SE#1	ND	1
AAS-SE#2	ND	1
AAS-NW#1	ND	1
AAS-NW#2	ND	1
Method Blank	ND	1

QA/QC

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
00-12-0933-3 (Duplicate)	2.2	2.4	9	0 - 15

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

000572

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/21/00
Work Order No: 00-12-0958
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	00-12-0958-4	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	270	8	16		ppb (v/v)	1,2-Dibromoethane	ND	8.0	16		ppb (v/v)
1,1-Dichloroethene	43	8	16		ppb (v/v)	Trichloroethene	130	8	16		ppb (v/v)
Methylene Chloride	33	32	16		ppb (v/v)	Tetrachloroethene	140	8	16		ppb (v/v)
1,1-Dichloroethane	20	8	16		ppb (v/v)	Chlorobenzene	1100	8	16	E	ppb (v/v)
Chloroform	ND	8.0	16		ppb (v/v)	Xylenes (total)	6900	24	16	E	ppb (v/v)
1,2-Dichloroethane	8.3	8.0	16		ppb (v/v)	Benzyl Chloride	ND	8.0	16		ppb (v/v)
1,1,1-Trichloroethane	ND	8.0	16		ppb (v/v)	1,3-Dichlorobenzene	18	8	16		ppb (v/v)
Benzene	1500	8	16	E	ppb (v/v)	1,4-Dichlorobenzene	620	8	16		ppb (v/v)
Carbon Tetrachloride	ND	8.0	16		ppb (v/v)	1,2-Dichlorobenzene	160	8	16		ppb (v/v)
Toluene	4000	8	16	E	ppb (v/v)						

AAS-SE#1	00-12-0958-5	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.58	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	4.4	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	2.2	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.9	0.5	1		ppb (v/v)						

AAS-SE#2	00-12-0958-6	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	1.4	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	4.3	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.6	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.4	0.5	1		ppb (v/v)						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	12/21/00
Work Order No:	00-12-0958
Preparation:	N/A
Method:	EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
AAS-NW#1	00-12-0958-7	12/21/00	Air	N/A	12/23/00	K001223A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.0	4		ppb (v/v)	1,2-Dibromoethane	ND	2.0	4		ppb (v/v)
1,1-Dichloroethene	ND	2.0	4		ppb (v/v)	Trichloroethene	ND	2.0	4		ppb (v/v)
Methylene Chloride	ND	8.0	4		ppb (v/v)	Tetrachloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethane	ND	2.0	4		ppb (v/v)	Chlorobenzene	ND	2.0	4		ppb (v/v)
Chloroform	ND	2.0	4		ppb (v/v)	Xylenes (total)	ND	6.0	4		ppb (v/v)
1,2-Dichloroethane	ND	2.0	4		ppb (v/v)	Benzyl Chloride	ND	2.0	4		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0	4		ppb (v/v)	1,3-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Benzene	2.6	2.0	4		ppb (v/v)	1,4-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Carbon Tetrachloride	ND	2.0	4		ppb (v/v)	1,2-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Toluene	9.5	2.0	4		ppb (v/v)						

AAS-NW#2	00-12-0958-8	12/21/00	Air	N/A	12/24/00	K001224A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	2.3	2.0	1		ppb (v/v)	Tetrachloroethene	2.9	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	5.9	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.9	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	7.1	0.5	1		ppb (v/v)						

Method Blank	095-01-021-1,184	N/A	Air	N/A	12/23/00	K001223A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

TEL (818) 707-3036
(805) 552-0000
FAX (818) 707-3012
(805) 552-0001

January 15, 2000

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Fourth Quarter, 1999
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the twenty fifth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October through December 1999.

Monitoring and sampling for this report was performed on October 1, 12, 28, and 30, November 1, 12, 15, 24, 29, and 30, and December 3, 7, 21, and 22, 1999.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989, the Guidelines were incorporated into the amended Rule 1150.1 on April 10, 1998) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products (LABP) was ordered to comply with requirements for Rule 1150.1, that were submitted to SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue (also 11501 Strathern St.), Sun Valley, California.

Rule 1150.1 requires subsurface refuse boundary probe monitoring (SRBPM) and sampling (SRRBS), integrated surface sampling (ISS), instantaneous surface monitoring (ISM), ambient air sampling, and plant inlet (TSI, for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Ambient air sampling requirements are not included in the routine quarterly monitoring for Penrose. Per Rule 1150.1 simultaneous source tests at the inlet and outlet of the gas disposal system are done at Penrose on an annual basis, and reported in the next quarterly report after data is available.

On April 10, 1998 SCAQMD approved an amended version of Rule 1150.1: Control of Gaseous Emissions from Municipal Solid Waste (MSW) Landfill. The amended Rule required that owners of all MSW landfills within the district submit a statement of intent to comply with the amended Rule within 90 days of the amendment date. On July 10, 1998, Sepich Associates/Methane Specialists prepared and submitted a revised compliance plan to SCAQMD for the Los Angeles By-Products Company. Per § (k) of the amended Rule the submittal for Penrose LF contains exemptions subject to SCAQMD approval. SCAQMD is in the process of issuing, revised, approved, Compliance Plans to all (private) landfill owners

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

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A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly subsurface refuse boundary probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.
2. Types and weights of waste materials deposited in the reporting year.
3. Total amount of waste materials deposited to date.
4. Contour map showing updated landfill boundary.
5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.
6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, October through December 1999, field monitoring was conducted on October 13, 21, and 26, November 5, 12, and 28, and December 1, 2, 8, 28, and 29, 1999. Additional perimeter probe monitoring results collected by David Thompson from the City of Los Angeles, Environmental Affairs Department (LEA), are included in Exhibit C and Table III. Samples were collected for laboratory analysis on October 26, and December 1, 2, and 28, 1999 (see Exhibit C for field documentation and Exhibit D for laboratory results).

B.1 Subsurface Refuse Boundary Probe Monitoring and Sampling

Subsurface refuse boundary probe monitoring on October 12, November 15, and December 7, 1999 was conducted by Sepich Associates/Methane Specialists personnel using a Bacharach Gas Pointer II, Combustible Gas Detector. Subsurface refuse boundary probe monitoring on October 28 and November 24, 1999 was conducted by LABP personnel using a GasTech Natural Gas Indicator Model NPL-204. No second probe monitoring was conducted in December because the detector was sent in for maintenance and not available when needed. Subsurface refuse boundary probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California.

Subsurface refuse boundary probe sampling was conducted at Probe R (40') on October 30, at Probe V (73') on November 30, and at Probe U (10') on December 21, 1999. A map of probe locations can be found in Exhibit A, subsurface refuse boundary probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on October 30, November 30, and December 21; 1999. On October 30, Areas 8 and 9 were sampled (see Integrated Surface Sampling Map in Exhibits A and C); on November 30, Areas 13 and 14 were sampled; and on December 21, Areas 38 and 39 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. All ISS field monitoring results for the Second Quarter TOC and H_2S concentrations were non-detect. Laboratory results are summarized in Table IV.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path B was traversed on October 1, and December 3, 1999. Path A was traversed on November 12, 1999. In October, November, and December no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Ogden Power Pacific, Inc. electrical generation plant inlet pipeline on November 1, November 29, and December 21, 1999. TOC was monitored with a GasTech Natural Gas Meter, Model NPL-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were last collected on August 22, 1997 and results of inlet analyses were reported in the third and fourth quarter 1997 reports.

B.6 Reporting Requirements

This is the twenty fifth in a series of quarterly reports and the fourth quarterly report for Penrose Landfill for 1999. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Subsurface refuse boundary probe monitoring is performed bi-monthly by Sepich Associates/Methane Specialists and LABP. The early (to mid-) month data is usually used to select the monthly probe sampling stations and the (mid to) late-month monitoring is used to fulfill any required follow-up probe monitoring. If gas is detected by agency inspectors their findings may influence the selection of probe sampling stations. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Subsurface refuse boundary probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are attached in Exhibit D.

C.1 Subsurface Refuse Boundary Probe Monitoring and Laboratory Results

Subsurface refuse boundary probe monitoring on October 12, 1999 registered no detections greater than 5% of volume. On October 30, 1999, Probe R (40') was sampled. Laboratory analytical results are presented in Table I below and in Exhibit D.

Table I - October 1999
SUMMARY OF FIELD TOC RESULTS
FOR SUBSURFACE REFUSE BOUNDARY PROBE SAMPLED ON October 30, 1999

Probe No.	Depth (ft)	TOC 10/12/99 (% Vol)	TOC 10/28/99 (% Vol)	Lab Results 10/30/99 (% Vol)	Follow up TOC 11/15/99 (% Vol)
R	40	ND	ND	0.0008	0.05

Note: Laboratory samples were collected 10/30/99. Field values are volume percent TOC.

ND = None detected

Subsurface refuse boundary probe monitoring on November 15, 1999 recorded no detections greater than 5% of volume. Probe V (73') was sampled on November 30, 1999. Laboratory analytical results are presented in Table II below and in Exhibit D.

Table II - November 1999
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR SUBSURFACE REFUSE BOUNDARY PROBE SAMPLED ON November 30, 1999

Probe No.	Depth (ft)	TOC 11/15/99 (% Vol)	TOC 11/24/99 (% Vol)	TOC 11/30/99 (% Vol)	Lab Result 11/30/99 (% Vol)	Follow up TOC 12/7/99 (% Vol)
V	73	1.45	ND	ND	0.0062	ND

Note: Laboratory samples were collected 11/30/99. Laboratory results are volume percent of methane. Field values are volume percent TOC.

Subsurface refuse boundary probe monitoring on December 7, 1999 recorded no detections greater than 5% of volume. On December 21, 1999, Probe U (10') was sampled (see lab results in Table III).

Table III - December 1999
SUMMARY OF FIELD TOC AND METHANE CONCENTRATIONS
FOR SUBSURFACE REFUSE BOUNDARY PROBE SAMPLED ON December 21, 1999

Probe No.	Depth (ft)	TOC 12/7/99 (% Vol)	TOC 12/21/99 (% Vol)	Lab Results 12/21/99 (% Vol)	Follow-up TOC 1/6/00 (% Vol)
U	10	ND	NA	<.0001	ND

Note: Laboratory samples were collected 12/21/99. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NA = Not available (detector was in for maintenance).

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-14. Table IV summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - Fourth QUARTER 1999
SUMMARY of ANALYTICAL RESULTS from INTEGRATED SURFACE SAMPLES

DATE and AREA		CH_4 (PPMV)	TGNMO (PPMV)
10/30/99	AREA # 8	2	2
10/30/99	AREA # 9	2	2
11/30/99	AREA # 13	2	2
11/30/99	AREA # 14	2	2
12/21/99	AREA # 38	2	<1
12/21/99	AREA # 39	2	<1

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Fourth Quarter of 1999.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 39.5% methane on November 1, 41.4% methane on November 29, and 47.4% methane on December 21, 1999. Dreager tube analytical results were 65 ppm H_2S on November 1, 50 ppm H_2S on November 29, and 35 ppm H_2S on December 21, 1999. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling was last conducted on August 22, 1997.

C.6 Report Requirements

This report constitutes the 1999, Fourth Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

Detections of TOC concentrations (> 1% volume) from subsurface refuse boundary probes (C, D, E, J, and V) during this reporting period triggered mitigation. Mitigation methods, including selective gas extraction from the areas of excessive landfill gas (LFG) migration, were enacted and follow-up monitoring of the same probes was performed in compliance with SCAQMD Rule 1150.1.

On December 29, 1999, an SCAQMD Inspector detected > 500 ppmv TOC (see Notice to Comply, Exhibit C) at a pipeline lateral near a water trap. The leak was mitigated and on January 11, 2000, the Inspector detected < 10 ppmv TOC.

Major compliance endeavors enacted by Los Angeles By-Products Company and Ogden Power Pacific in the past several years include:

- Mitigation well (8 wells) program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter 1995 (including changing the gas collection system); probes 2 through 8 were replaced at this time;
- Replacement probe (A1, K1, and J1) installation in Fourth Quarter, 1995; and
- Closure plan construction at clubhouse and BMX track locations in 1998 and 1999.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

John Sepich, P.E.
President

J152rept.625/atf

Public Facilities Branch / SCAQMD Jan. 15, 2000

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Mr. George M. Payba

California Integrated Waste Management Board

- Mr. Peter Janicke

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Fourth Quarter, 1999
- EXHIBIT D: Laboratory Analytical Results - Fourth Quarter, 1999

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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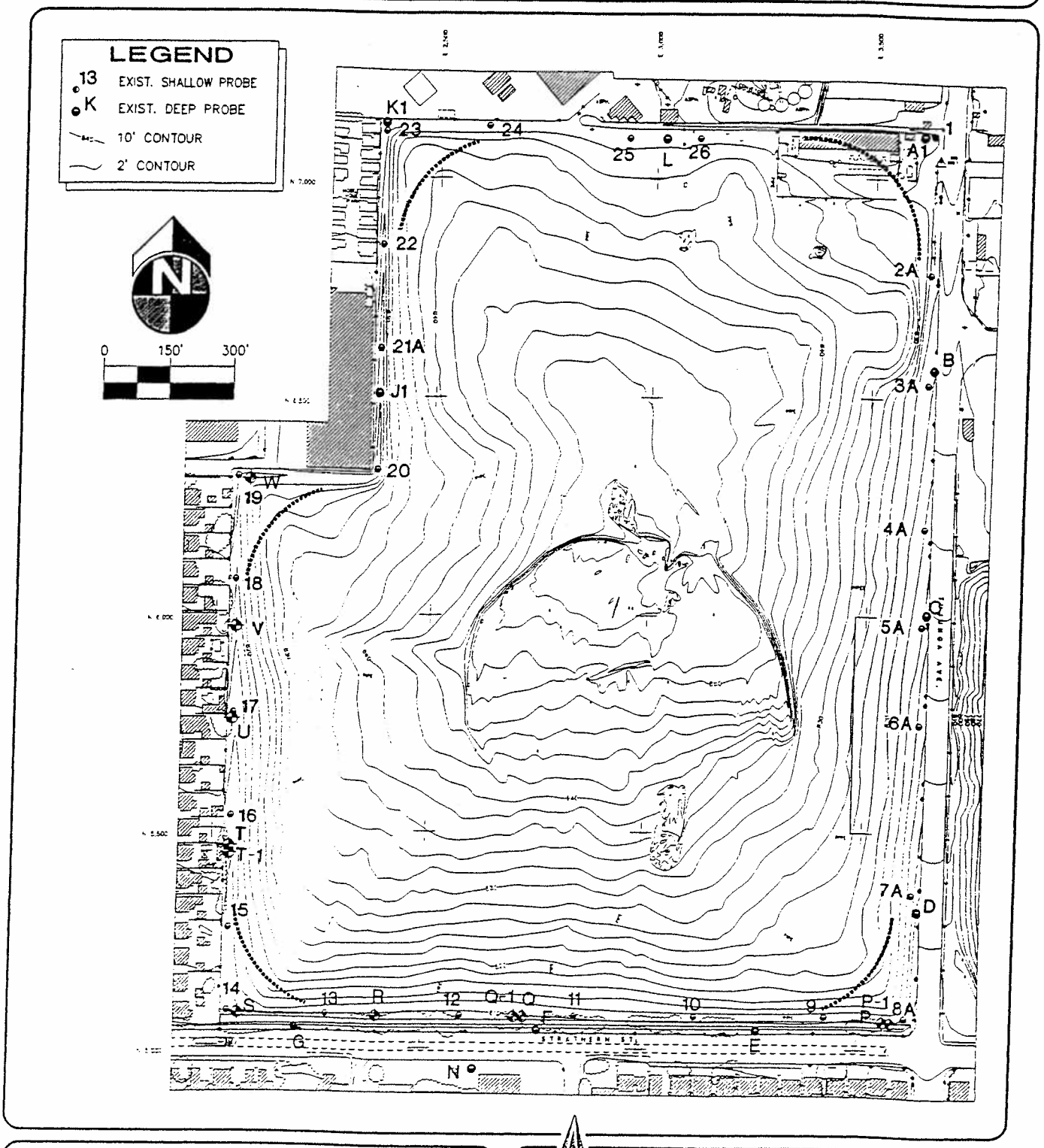
PENROSE LANDFILL MONITORING PROBE LOCATIONS



SEPICH ASSOCIATES, Inc.
680 WALNUT ST.
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FAX: (818) 707-3012 (805) 552-0001
CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

SHEET ___ OF ___

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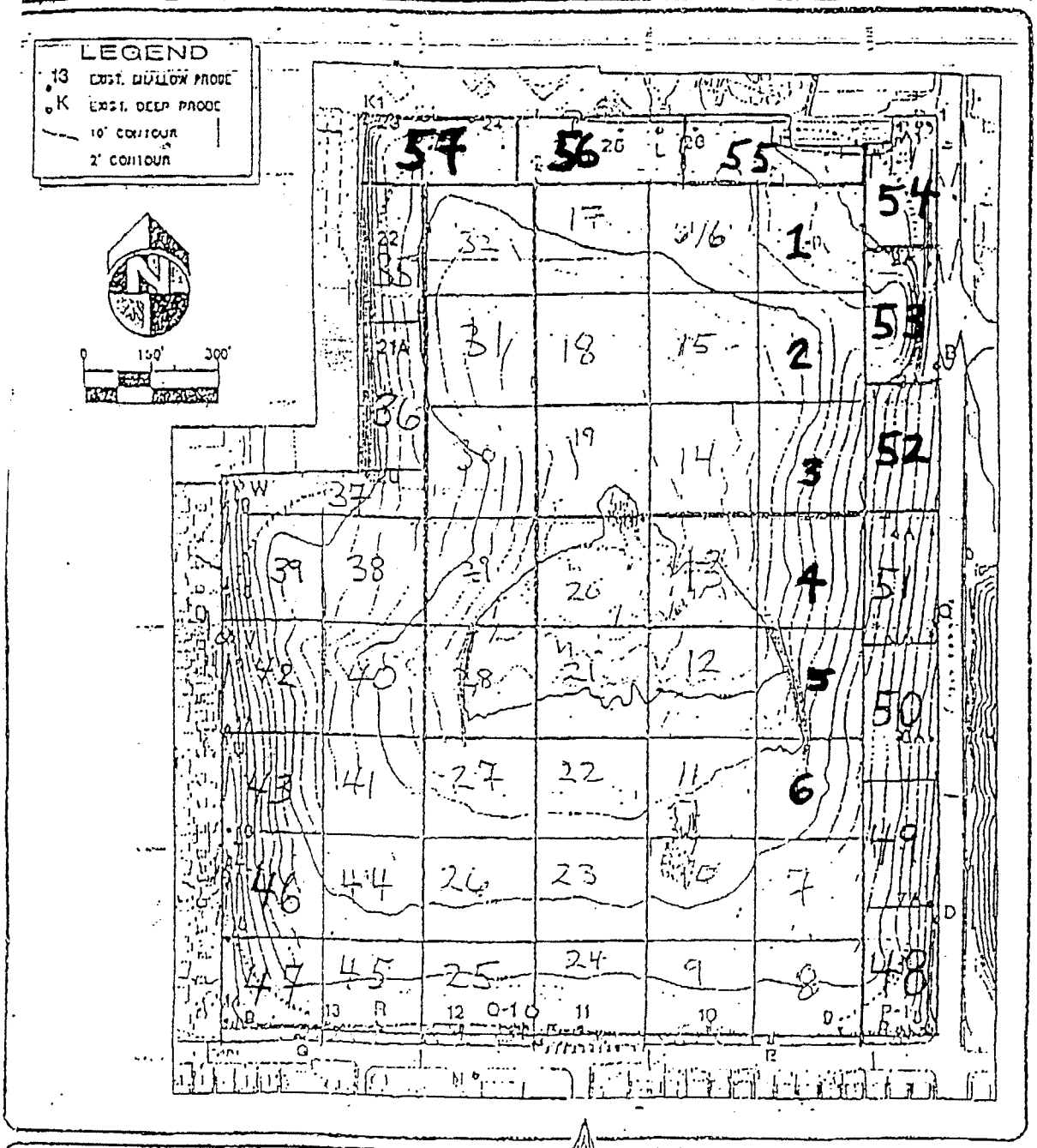
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #300
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-0030 (800) 373-0371
FAX: (818) 707-0012 (800) 373-0367
GAS PROBES
SITE AUDIT
DEMONSTRATION
WASTE AND
GAS MONITOR
METHANE

Los Angeles By-Products Co.
Incorporated 1923
1510 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 - Fax: (213) 233-4170

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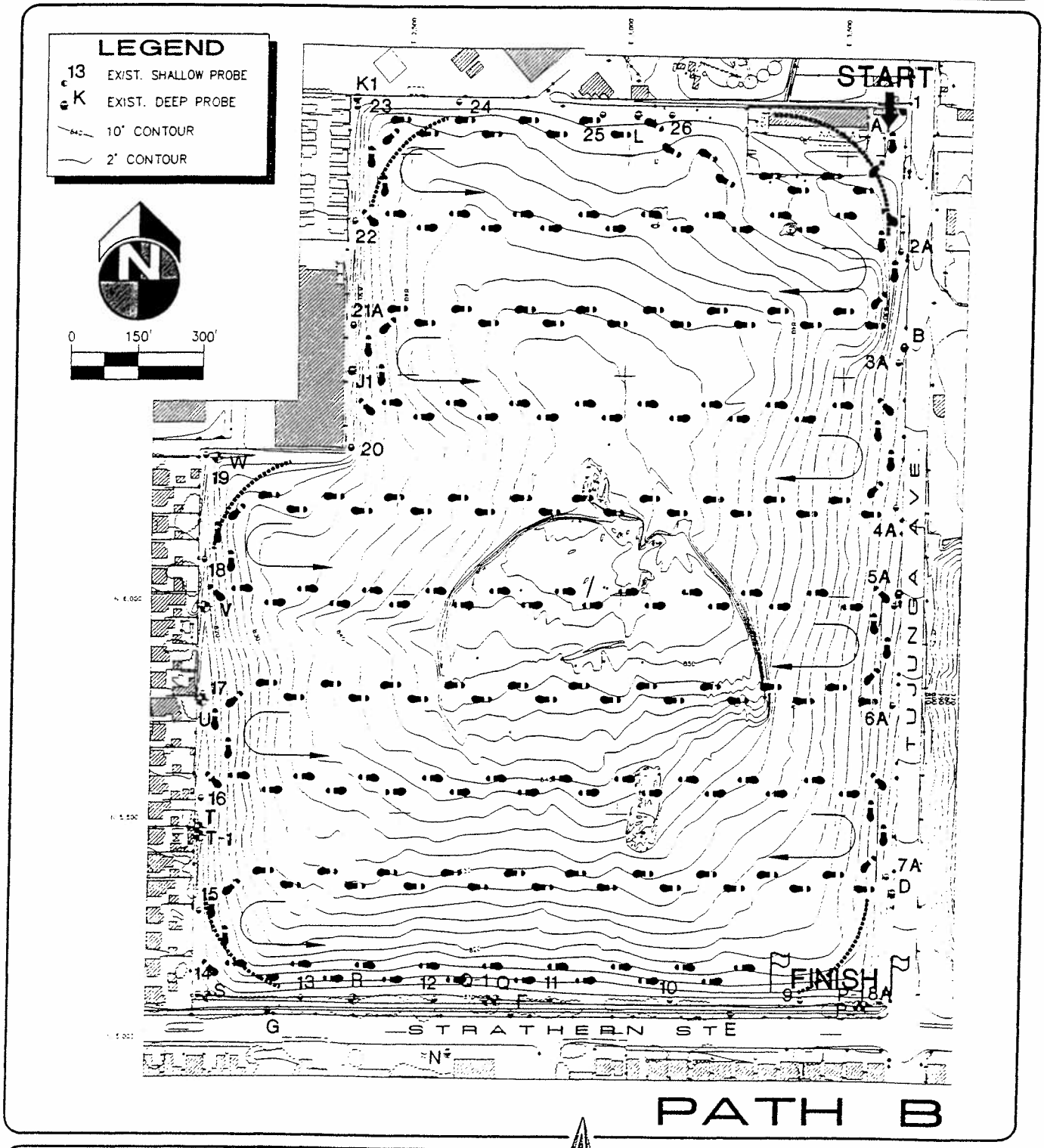
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



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Los Angeles By-Products Co.
Incorporated 1925
444 Irving Drive Suite #101 Burbank CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

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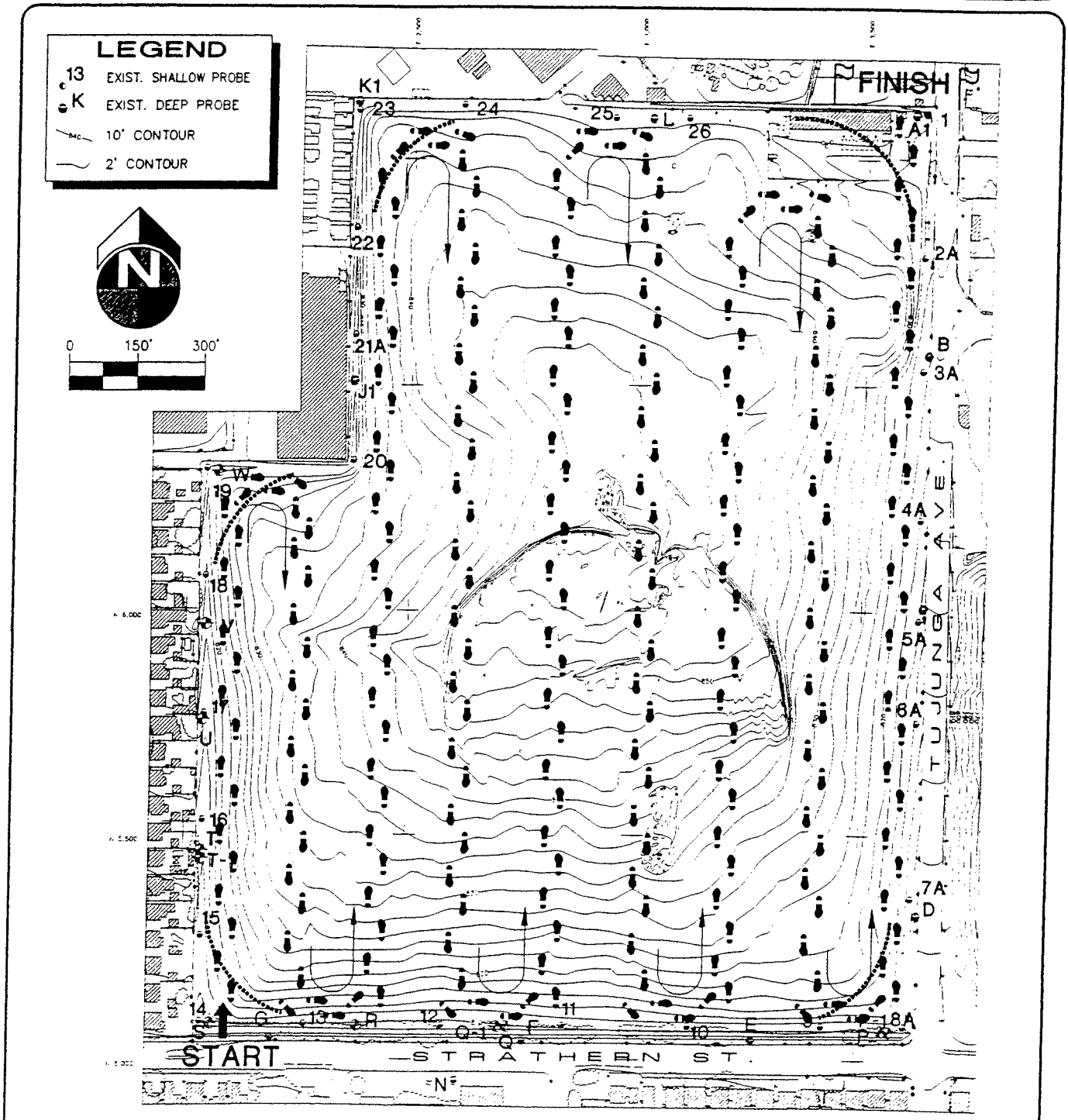
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

SEPICH ASSOCIATES, Inc.
680 WALNUT ST.
MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

Los Angeles By-Products Co.
Incorporated 1925
444 Irving Drive Suite #101 Burbank CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

SHEET OF

000530

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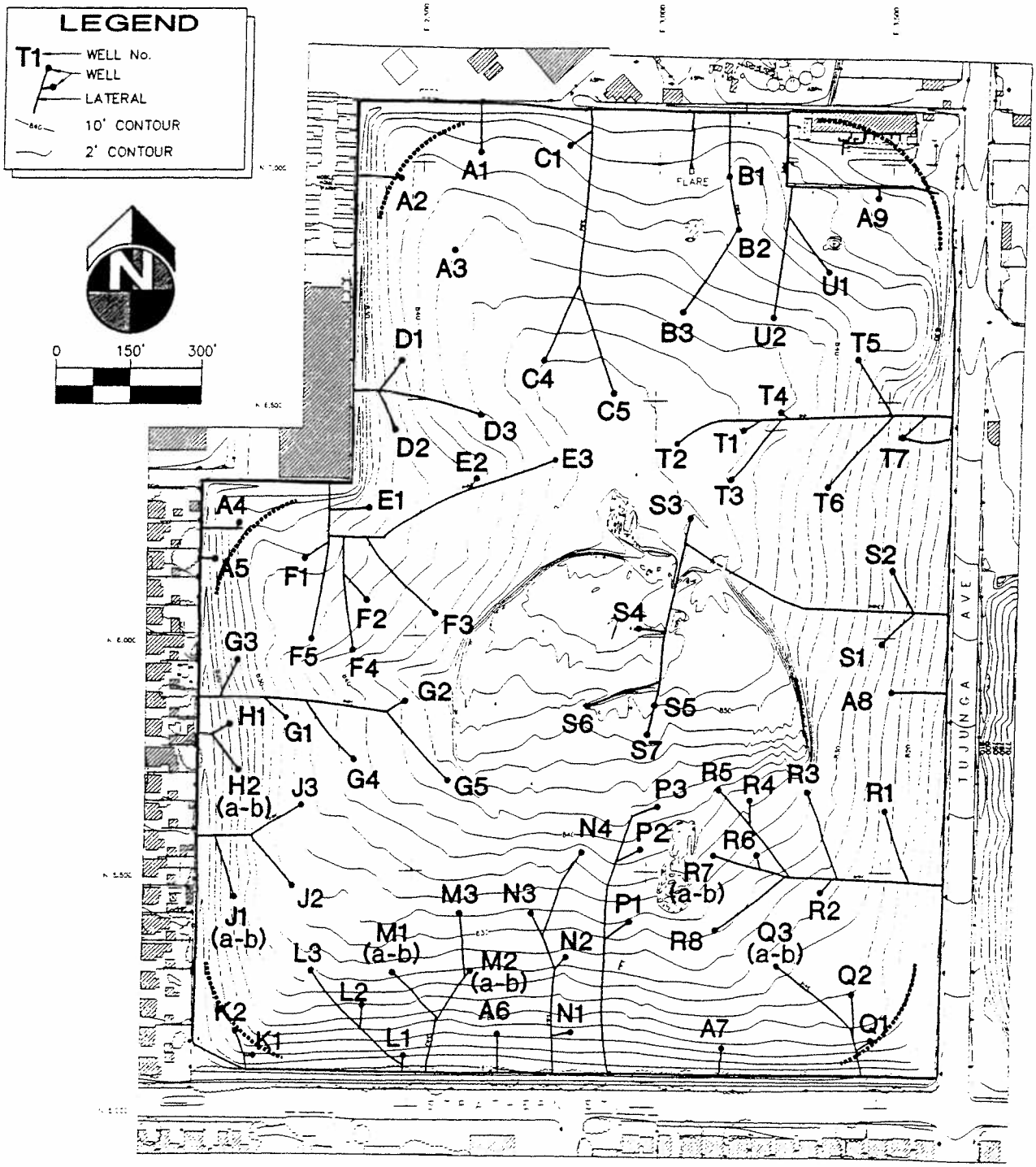
PENROSE LANDFILL
GAS COLLECTION SYSTEM



SEPICH ASSOCIATES, Inc.
680 WALNUT ST.
MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

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Incorporated 1925
444 Irving Drive Suite #101 Burbank CA 91504
Tel: (818) 845-4489 Fax: (818) 845-1011

SHEET ___ OF ___

000590

EXHIBIT B

Core Group Toxic Air Contaminants

1.	Benzene	C_6H_6
2.	Benzyl Chloride	$C_6H_5CH_2Cl$
3.	Chlorobenzene	C_6H_5Cl
4.	1,2 Dibromoethane (Ethylene Dibromide)	$BrCH_2CH_2Br$
5.	Dichlorobenzene	$C_6H_4Cl_2$
6.	1,1-Dichloroethane (Ethylidene Chloride)	CH_3CHCl_2
7.	1,2-Dichloroethane (Ethylene Dichloride)	$ClCH_2CH_2Cl$
8.	1,1-Dichloroethene (Vinylidene Chloride)	$CH_2{:}CCl_2$
9.	Dichloromethane (Methylene Chloride)	CH_2Cl_2
10.	Hydrogen Sulfide	H_2S
11.	Tetrachloroethylene (Perchloroethylene - PCE)	$Cl_2C{:}CCl_2$
12.	Tetrachloromethane (Carbon Tetrachloride)	CCl_4
13.	Toluene	$C_6H_5CH_3$
14.	1,1,1-Trichloroethane (Methyl Chloroform)	CH_3CCl_3
15.	Trichlorethylene (TCE)	$CHCl{:}CCl_2$
16.	Trichloromethane (Chloroform)	$CHCl_3$
17.	Vinyl Chloride	$CH_2{:}CHCl$
18.	Xylene	$C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Fourth Quarter, 1999

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SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL (818)707-3036 (805) 552-0000 FAX (818)707-3012 (805) 552-0001

JOB NAME: PENROSE

JOB No. 5752-6

DATE 10/1/99

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain — <32° F / 71°-85° / 33°-55° / 86°-100° / 56°-70° / >100° F — still / breeze / wind — dry / moderate / humid

LOCATION: PENROSE

PURPOSE: I.S.M. Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Weather was warm with mostly clear skies with scattered Haze. OVA instrument used was FOXBORO 128 last calibrated by Robert McAllister on 10/1/99. Monitor began at 8:30 am and completed at 9:50 am with result of ND. Last recorded rainfall was over 72 hours ago. The electronic wind speed indicator detected ND. contractor followed Path 'B'.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

10/10/97

SHEET__OF__

CONFIDENTIAL

Ogden Power Pacific
13151 Crossroads Parkway North, Suite 250
City of Industry, California 91746
Tel: (562) 695-2442 Fax: (562) 945-5653

JOB NAME: PENROSE LANDFILL

DATE: 10-12-99

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: CTF

TIME: 1250-1720 hr

INSTRUMENT: BACHARACH GAS POINTER II

PARAMETER: % Volume CH_4*

REMARKS: *Instrument readings all registered in % LEL-CH_4 (C bag filter used) % LEL readings from the field log have been converted to % volume on this log. ND = not detectable at % LEL level.

PROBE #		PROBE #					
1	ND	A-1	ND		R	10'	ND
2 A	ND	B	ND			40'	ND
3 A	ND	C GREEN-21'	2.1			80'	ND
4 A	ND	C YELLOW-41'	2.3			120'	ND
5 A	ND	C ORANGE-61'	X	probe missing	S	10'	ND
6 A	ND	C RED - 81'	ND			40'	ND
7 A	ND	D	0.15			80'	ND
8 A	ND	E	4.3			120'	ND
9	ND	F	ND		T	10'	ND
10	ND	G	ND			40'	ND
11	ND	J-1	0.05			73'	ND
12	ND	K-1	ND		T-1	72'	ND
13	ND	L GREEN-45'	ND		U	10'	ND
14	ND	L YELLOW-65'	ND			37'	ND
15	ND	L ORANGE-85'	ND			68'	ND
16	ND	L RED - 105'	ND		V	10'	ND
17	ND	N GREEN-22'	ND			40'	1.1
18	ND	N YELLOW-45'	ND			73'	1.15
19	ND	N ORANGE-68'	ND		W	10'	ND
20	ND	N RED - 90'	ND			40'	ND
21 A	ND	P 10'	ND			80'	ND
22	ND	P 40'	ND			120'	ND
23	ND	P 80'	ND			158'	ND
24	ND	P-1 120'	X	clogged			
25	ND	Q 10'	ND		TSI		
26	ND	Q 40'	ND				
		Q 75'	ND				
		Q-1 120'	ND				
		Q-1 158'	ND				

SUPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 10-28-99

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	R.M.
TIME	
INSTRUMENT	
PARAMETER	

REMARKS: Began monitor @ 2:30 - 4:00 pm.

PROBE #		
1	ND	
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		

PROBE #		
A-1	ND	
B		
C GREEN-21'		
C YELLOW-41'		
C ORANGE-61'		
C RED - 81'		
D		
E		
F		
G		
J-1		
K-1		
L GREEN-45'		
L YELLOW-65'		
L ORANGE-85'		
L RED - 105'		
N GREEN-22'		
N YELLOW-45'		
N ORANGE-68'		
N RED - 90'		
P 10'		
P 40'		
P 80'		
P-1 120'		
Q 10'		
Q 40'		
Q 75'		
Q-1 120'		
Q-1 158'		

R	10'	ND
R	40'	
R	80'	
R	120'	
S	10'	
S	40'	
S	80'	
S	120'	
T	10'	
T	40'	.2%
T	73'	
T-1	72'	
U	10'	
U	37'	
U	68'	
V	10'	1.1%
V	40'	.2%
V	73'	ND
W	10'	
W	40'	
W	80'	
W	120'	
W	158'	
TSI		

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

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METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL (818) 707-3036 (805) 552-0000 FAX (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE

JOB No. 5152-6
DATE 10/30/99

INSPECTION REPORT

CLIMATE: bright, clear, fog / cloudy, overcast, rain / <32° F, 33°-55°, 56°-70° / 71°-85°, 86°-100°, >100° F / still, breeze, wind / dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Clear skies and warm weather. The electronic wind speed indicator detected a 0.0 to 1.1 mph South breeze occasionally. OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 10-1-99. The TOC meter ppL-204 last calibrated by J.G. Tucker & Son on 8/7/98. H_2S tests were done with Drager tubes and a Drager Pump. All air samples were collected in 10-liter Tedlar bags and stored in a Black plastic Bag for protection from sunlight. ISS samples were collected with a portable

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

10/10/97

SHEET__OF__

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 10/30/99

REMARKS CONTINUED:

Self contained unit with its own power supply, which collected samples at 400 cc/min.

ISS #8 was collected at 9:00 am and tested OVA (ND) and H_2S (ND). ISS #9 was collected at 9:33 am and tested OVA (ND) and H_2S (ND). PPS R 40' was collected at 10:20 am and tested TOC (ND) and H_2S (ND). The TSI was collected at 7:30 am and tested TOC (46%) and H_2S (65 ppm), ON 11/1/99.

Robert Amallat
INSPECTOR

PRINCIPAL

J5A0075 4/15/94

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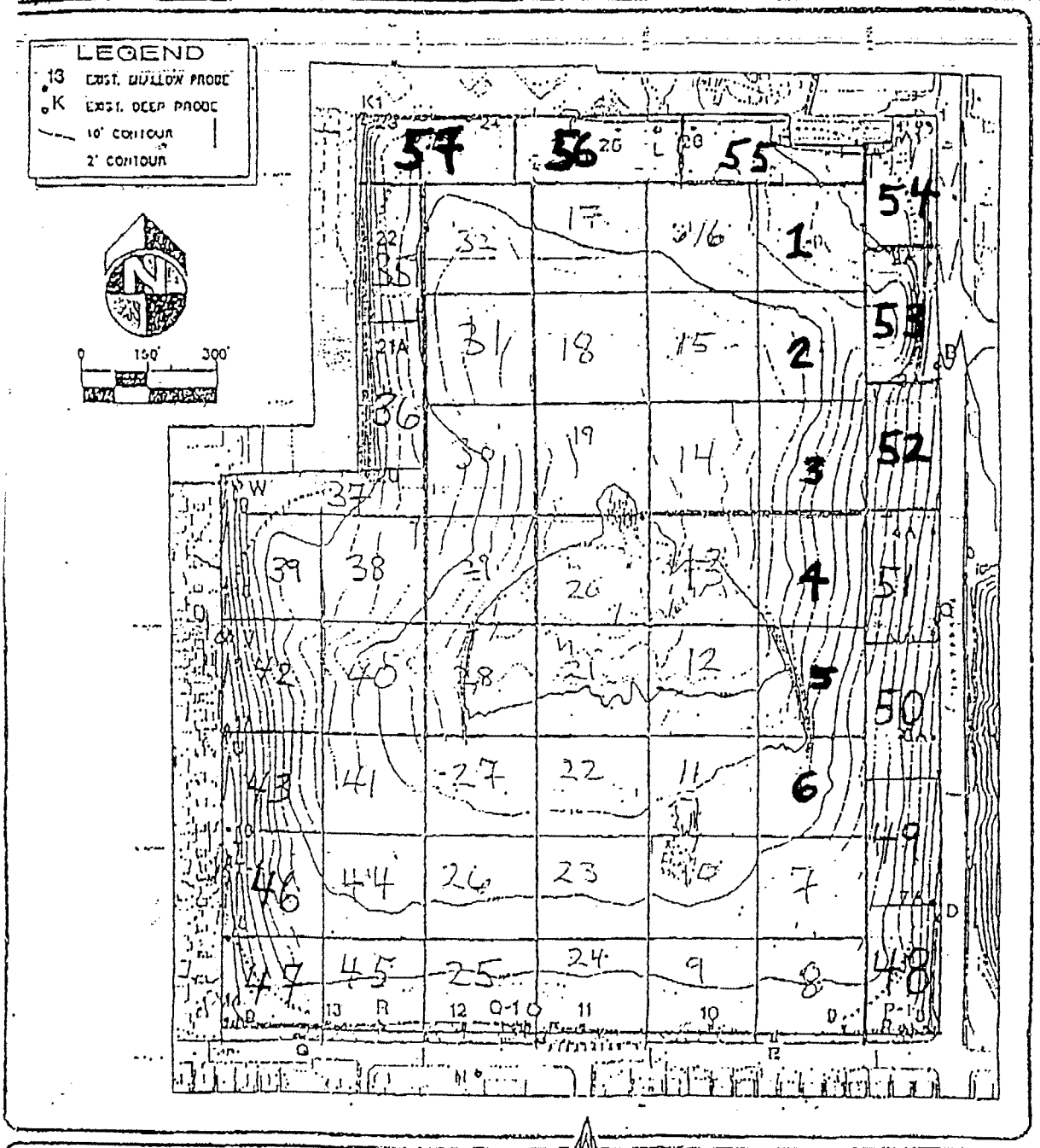
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (800) 373-9321
FAX: (818) 707-3012 (800) 373-0307

Los Angeles By-Products, Co.
Incorporated 1923
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 - Fax: (213) 233-1170

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TOTAL P.01

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 10/30/99

Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	OVA	H_2S
ISS # 8	ND	ND
ISS #9	ND	ND

REMARKS: Clear - Sunny - WARM

ISS #8 - 9:00 AM
ISS #9 - 9:33 AM
PPS R-40' - 10:20 AM

TSI - 7:30 AM 11/1/99

PROBE #				
B				
C	GREEN-21'			
	YELLOW-41'			
	ORANGE-61'			
	RED-81'			
D				
E				
F				
G				
H				
I	GREEN-17'			
	YELLOW-37'			
	ORANGE-57'			
	RED-77'			
J				
K				
L	GREEN-45'			
	YELLOW-65'			
	ORANGE-85'			
	RED-105'			
M				
N	GREEN-22'			
	YELLOW-45'			
	ORANGE-68'			
	RED-90'			
P	10'			
	40'			
	80'			
P-1	120'			

PROBE #		TDC	H_2S
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'	ND	ND
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	46%	65 ppm

Form prepared by METHANE SPECIALISTS WESTLAKE VIL GE, CA. 91362 FAX: (818) 707-3012 (805) 373-8987

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SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST. MOORPARK, CA 93021
TEL (818) 707-3036 (805) 552-0000 FAX (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE

JOB No. 3752-6
DATE 11/12/99

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Last recorded rain was over 72 hours ago. Electronic wind speed indicator detected ND. OVA instrument used is FOXBORO 128 last calibrated by Robert McAllister 10/1/99. Contractor followed PATH 'A'. Monitor began at 7:30 am and finished at 9:08 am with result of ND.

☐ REINSPECTION REQUIRED

Robert mcallist
INSPECTOR

PRINCIPAL

SHEET__OF__

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CONFIDENTIAI

Ogden Power Pacific

JOB NAME: PENROSE LANDFILL

DATE: 11-15-99

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: CTF

TIME: 1130 – 1600 hr

INSTRUMENT: BACHARACH GAS POINTER II

PARAMETER: % Volume CH_4 *

REMARKS: * Instrument readings all registered in % LEL CH_4 (Carbon filter used). % LEL readings from field log have been converted to % volume on this log. ND = not detected at LEL

PROBE #	% VOL. CH_4
1	ND
2 A	ND
3 A	ND
4 A	ND
5 A	ND
6 A	ND
7 A	ND
8 A	ND
9	ND
10	0.05
11	ND
12	ND
13	ND
14	ND
15	ND
16	ND
17	ND
18	ND
19	ND
20	ND
21 A	ND
22	ND
23	ND
24	ND
25	ND
26	ND

PROBE #			
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	1.85	hard draw
	ORANGE-61'	X	missing
	RED - 81'	ND	very hard draw
D		0.1	
E		2.5	
F		ND	
G		ND	
J-1		1.15	
K-1		ND	
L	GREEN-45'	0.05	very hard draw
	YELLOW-65'	ND	very hard draw
	ORANGE-85'	ND	
	RED - 105'	0.05	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	ND	
	80'	ND	
P-1	120'	W	
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

R	10'	ND
	40'	0.05
	80'	ND
	120'	ND
S	10'	ND
	40'	ND
	80'	0.05
	120'	ND
T	10'	ND
	40'	0.05
	73'	ND
T-1	72'	ND
U	10'	ND
	37'	0.05
	68'	ND
V	10'	ND
	40'	0.95
	73'	1.45
W	10'	0.05
	40'	ND
	80'	0.05
	120'	0.05
	158'	0.05
TSI		

LEIGH ASSOCIATES, Inc. METHANE SPECIALISTS 680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME
PENROSE LANDFILL

DATE	11-24-99
JOB No.	J152-6

GAS CONCENTRATIONS

INITIALS	R. M.
TIME	3:15-5:00pm
INSTRUMENT	Apl-204
PARAMETER	

REMARKS
Began 3:15pm - 5:00pm

PROBE #		
1	ND	
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		

PROBE #			
	A-1	ND	
	B	ND	
C	GREEN-21'	ND	
C	YELLOW-41'	.4%	
C	ORANGE-61'	ND	
C	RED - 81'		
	D		
	E		
	F		
	G		
	J-1		
	K-1		
L	GREEN-45'	.2%	
L	YELLOW-65'	ND	
L	ORANGE-85'	ND	
L	RED - 105'	ND	
N	GREEN-22'		
N	YELLOW-45'		
N	ORANGE-68'		
N	RED - 90'		
P	10'		
P	40'		
P	80'		
P-1	120'		
Q	10'	.8%	
Q	40'	ND	
Q	75'	ND	
Q-1	120'	ND	
Q-1	158'		

R	10'	ND
R	40'	
R	80'	
R	120'	
S	10'	
S	40'	
S	80'	
S	120'	
T	10'	
T	40'	
T	73'	
T-1	72'	
U	10'	
U	37'	
U	68'	
V	10'	
V	40'	
V	73'	
W	10'	
W	40'	
W	80'	
W	120'	
W	158'	
TSI		

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTI

SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST. MOORPARK, CA 93021
TEL (818) 707-3036 (805) 552-0000 FAX (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE

JOB No. J152-6
DATE 11/30/99

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain

<32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F

still, breeze, wind

dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): Robert McAllister

REMARKS: All air samples were collected in 10-liter Tedlar bags, and placed into a Black plastic Bag for protection from Sunlight. ISS samples were collected with a portable self contained unit with its own power supply that collected samples at 400 cc/MIN. OVA instrument used was the FoxBoro 128 last calibrated by Robert McAllister on 10/1/99. TOC instrument was a Natural Gas Tech calibrated by J.G. Tucker and Son on 8/7/98. H_2S levels were determined with Drager tubes and a Drager Pump. Last recorded rain

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

10/10/97

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME Penrose

JOB No. J1526

DATE 11/30/99

REMARKS CONTINUED:

was over 72 hours ago. The electronic wind speed indicator detected ND.

ISS # 13 was collected at 9:15 am and tested H_2S (ND) and DVA (ND). ISS # 14 was collected at 9:40 am and tested H_2S (ND) and DVA (ND). PPS V 73' was collected at 10:35 am and tested TOC (ND) and H_2S (ND). TSI was collected at 2:00 pm on 11/29/99 and tested for TOC (44%) and H_2S (50ppm).

Robert M Allist
INSPECTOR

PRINCIPAL

JSA0075 4/15/94

SHEET__OF__

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 11-30-99

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	RM
TIME	
INSTRUMENT	np1-204 - Gas TECH
PARAMETER	

REMARKS
11-29-99 - TSI
11-30- ISS, PPS

PROBE #			PROBE #						H_2S	TOC
1			A-1			R	10'			
2 A			B				40'			
3 A			C	GREEN-21'			80'			
4 A				YELLOW-41'			120'			
5 A				ORANGE-61'		S	10'			
6 A				RED - 81'			40'			
7 A			D				80'			
8 A			E				120'			
9			F			T	10'			
10			G				40'			
11			J-1				73'			
12			K-1			T-1	72'			
13			L	GREEN-45'		U	10'			
14				YELLOW-65'			37'			
15				ORANGE-85'			68'			
16				RED - 105'		V	10'			
17			N	GREEN-22'			40'			
18				YELLOW-45'			73'		ND	ND
19				ORANGE-68'		W	10'			
20				RED - 90'			40'			
21 A			P	10'			80'			
22				40'			120'			
23				80'			158'			
24			P-1	120'						
25			Q	10'		TSI			50ppm	44%
26	OVA	H_2S		40'						
				75'						
ISS# 13	ND	ND	Q-1	120'						
ISS# 14	ND	ND		158'						

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

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SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL (818)707-3036 (805) 552-0000 FAX (818)707-3012 (805) 552-0001

JOB NAME: PENROSE

JOB No. 152-6
DATE 12/3/99

INSPECTION REPORT

CLIMATE: bright / clear / fog — cloudy / overcast / rain | <32° F / 33°-55° / 56°-70° — 71°-85° / 86°-100° / >100° F | still / breeze / wind | dry / moderate / humid

LOCATION: Instantaneous Surface Monitor

PURPOSE: PenROSE

CONTRACTOR(S): Robert McAllister

REMARKS: Clear skies and cold temperature. The electronic wind speed indicator detected a 2.3 - 4.5 mph breeze, North west. OVA instrument was Foxboro 128 last calibrated by Robert McAllister on 10/1/99. Monitor began at 9:00am and completed at 10:30 am with result of ND. last recorded rain was over 72 hours ago. Contractor followed Path 'B'.

☐ REINSPECTION REQUIRED

INSPECTOR

PRINCIPAL

SHEET__OF__

10/10/97

000606

CONFIDENTIAL

J481

Ogden Power Pacific
13181 Crossroads Parkway North, Suite 250
City of Industry, California 91746
Tel (562) 695-2442 Fax (562) 945-8563

JOB NAME: PENROSE LANDFILL

DATE: 12-7-99

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: ATF

TIME: 1200 - 1600

INSTRUMENT: BACHARACH Gas Pointer II

PARAMETER: % Volume CH4 *

REMARKS: Pre-checked GP II w/2.5% CH4 calibrant: registered 49% LEL. *Instrument readings registered in % LEL CH4 (carbon filter used). % LEL readings from field log have been converted to % volume on this log. ND = not detected at LEL level. W = Water, TR = Trace ≤ 0.05.

PROBE #		PROBE #					
1	ND	A-1	ND		R	10'	ND
2 A	ND	B	ND			40'	ND
3 A	ND	C GREEN-21'	ND			80'	ND
4 A	0.05	C YELLOW-41'	/			120'	ND
5 A	ND	C ORANGE-61'	X	missing	S	10'	ND
6 A	ND	C RED - 81'	ND			40'	ND
7 A	ND	D	2.9			80'	ND
8 A	ND	E	0.05			120'	ND
9	ND	F	ND		T	10'	ND
10	ND	G	ND			40'	ND
11	ND	J-1	ND			73'	ND
12	ND	K-1	ND		T-1	72'	ND
13	ND	L GREEN-45'	ND		U	10'	ND
14	ND	L YELLOW-65'	ND			37'	ND
15	ND	L ORANGE-85'	ND			68'	ND
16	ND	L RED - 105'	ND		V	10'	ND
17	ND	N GREEN-22'	ND			40'	1.1
18	ND	N YELLOW-45'	ND			73'	2.3
19	ND	N ORANGE-68'	ND		W	10'	ND
20	ND	N RED - 90'	ND			40'	ND
21 A	ND	P 10'	ND			80'	0.05
22	ND	P 40'	ND			120'	TR
23	ND	P 80'	0.3			158'	ND
24	0.5	P-1 120'	W				
25	ND	Q 10'	3.3		TSI		
26	ND	Q 40'	1.3				
		Q 75'	ND				
		Q-1 120'	ND				
		Q-1 158'	0.05				

680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012
MCTIGHE ASSOCIATES, Inc.
MECHANIC SPECIALISTS

SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL (818) 707-3036 (805) 552-0000 FAX (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE

JOB No. J152-6
DATE 12/21/99

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, ISS PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Last recorded rain was over 72 hours ago. OVA instrument was the FOXBORO 128 last calibrated by Robert McAllister 10/1/99. H_2S tests were done with Drager Pump and Drager Tubes. TOC tests were done with a Natural Gas Tech model npL-204 last calibrated by J.G. Tucker and Son on 8/7/99. All air samples were collected in 10-liter TEDLAR BAGS and placed into a Black plastic Bag for protection from SUNLIGHT. ISS were collected with a portable self contained unit with its own power supply, which collected samples at 400 cc/min.

☐ REINSPECTION REQUIRED

Robert mcallist
INSPECTOR

PRINCIPAL

SHEET__OF__

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6

DATE 12/21/99

REMARKS CONTINUED:

ISS # 38 was collected at 8:35 am and tested OVA (ND) and H_2S (ND). ISS # 39 was collected at 9:05 am and tested OVA (ND) and H_2S (ND). PPS U-18' was collected at 9:30 am and tested for TOC (NA) and H_2S (ND). The TSI was collected at 10:00 AM and tested H_2S (35 ppm) and H_2S (NA).

NOTE: TOC Meter was at J.G. Tucker & Son. for CALIBRATION / REPAIR

INSPECTOR

PRINCIPAL

SHEET__OF__

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 12-21-99

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	RM
TIME	
INSTRUMENT	
PARAMETER	

REMARKS: Blue Skies - Clear - No Wind
STILL - HOT -
ISS # 38 - 8:35 AM TSI - 10:00 AM
ISS# 39 - 9:05 AM TOC - instrument being serviced/calibrated
PPS - U - 10' - 9:30 AM

PROBE #			PROBE #						H_2S	TOC
1			A-1			R	10'			
2 A			B				40'			
3 A			C	GREEN-21'			80'			
4 A				YELLOW-41'			120'			
5 A				ORANGE-61'		S	10'			
6 A				RED - 81'			40'			
7 A			D				80'			
8 A			E				120'			
9			F			T	10'			
10			G				40'			
11			J-1				73'			
12			K-1			T-1	72'			
13			L	GREEN-45'		U	10'		ND	NA
14				YELLOW-65'			37'			
15				ORANGE-85'			68'			
16				RED - 105'		V	10'			
17			N	GREEN-22'			40'			
18				YELLOW-45'			73'			
19				ORANGE-68'		W	10'			
20				RED - 90'			40'			
21 A			P	10'			80'			
22				40'			120'			
23				80'			158'			
24			P-1	120'						
25			Q	10'		TSI			35ppm	NA
26				40'						
				75'					OVA	H_2S
			Q-1	120'			ISS# 38		ND	ND
				158'			ISS #39		ND	ND

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3038 FAX (818)707-3012

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 12-22-99

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS RM	REMARKS
TIME	GAS TECH INSTRUMENT
INSTRUMENT	IN REPAIR
PARAMETER	CANCELLED

PROBE #		
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		

PROBE #						
A-1			R	10'		
B				40'		
C	GREEN-21'			80'		
	YELLOW-41'			120'		
	ORANGE-61'		S	10'		
	RED - 81'			40'		
D				80'		
E				120'		
F			T	10'		
G				40'		
J-1				73'		
K-1			T-1	72'		
L	GREEN-45'		U	10'		
	YELLOW-65'			37'		
	ORANGE-85'			68'		
	RED - 105'		V	10'		
N	GREEN-22'			40'		
	YELLOW-45'			73'		
	ORANGE-68'		W	10'		
	RED - 90'			40'		
P	10'			80'		
	40'			120'		
	80'			158'		
P-1	120'					
Q	10'		TSI			
	40'					
	75'					
Q-1	120'					
	158'					

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

South Coast Air Quality Management District
21865 E. Copley Drive, P. O. Box 4941, Diamond Bar 91765-4941

DATE OF INSPECTION: 12/23/99

NOTICE TO COMPLY

LA By-Products Co

The following numbered Notices to Comply (served concurrently herewith) constitute parts of this Notice to Comply: Notice #(s):

FACILITY NAME: Penrose Landfill		FACILITY ID #: 024325	
LOCATION ADDRESS: 8301 Tujunga Avenue		MAILING ADDRESS: 8301 Tujunga Avenue	
CITY: Sun Valley	ZIP: 91352	CITY: Sun Valley	ZIP: 91352
SECTOR: PL		TELEPHONE #: (213) 875-1095	

YOU ARE DIRECTED TO COMPLY WITH:

ITEM #	• AQMD Permit # or Equipment Desc. • AQMD Rule # • Cal H&S Code §	A MEANS OF ACHIEVING COMPLIANCE IS:	DATE COMPLIANCE DUE
1	Rule 1150.1 (d)(5)	Discontinue allowing the emissions of organic	1/10/2000
2		compounds (measured	↓
3		as Methane) greater than 500PPM located at old lateral (s) adj to Trap S1.	↓

SERVED TO: Victor Lam

TITLE: Field Foreman c/o Ogden Power Pacific

BY INSPECTOR: L. B. Israel

TELEPHONE: (909) 396-2370

DATE: December 23, 1999

REPLY REPORT BY CITED FACILITY:
(attach additional pages as necessary)

DATE COMPLIANCE ACHIEVED	DESCRIPTION OF HOW COMPLIANCE WAS ACHIEVED:
1/3/2000	LA By Products dugged up 3' of dirt, compacted over lax w/ bentonite
	1/11/99 L. Israel verified compliance w/ Rule 1150.1 measured <10PPM.

SIGNATURE OF OWNER/RESPONSIBLE OFFICIAL: [signature]

TITLE:

DATE: 01-11-2000

INSTRUCTIONS/INFORMATION:

- For each minor violation cited compliance shall be achieved by the due date specified above for that particular violation.
- Within 5 working days of achieving compliance for each respective violation, the owner/responsible officer of the cited facility must complete and return a signed copy of this Notice to the South Coast Air Quality Management District at the address listed above. Please copy this Notice as many times as necessary to provide the required information. On each copy, include a written statement describing when and how compliance was achieved. Send all completed copies to the attention of the inspector named above.
- Failure to respond or a false statement that compliance has been achieved is a violation subject to further legal action pursuant to the California Health and Safety Code.
- Any person issued a Notice to Comply may appeal the issuance by filing a written appeal, including all reasons for the appeal, with the South Coast Air Quality Management District at the address listed above within 7 days of receipt of the Notice.
- **The facility cited in this Notice is subject to reinspection at any time to ensure compliance.**

NO. C 59055

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

SOURCE COPY

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C 00059

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EXHIBIT D

Laboratory Analytical Results - Fourth Quarter, 1999

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	10/30-11/01/99
444 Irving Drive, Suite 101	Date Received:	11/01/99
Burbank, CA 91504	Date Analyzed:	11/02/99
	Work Order No.:	99-11-0029
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill / J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #8		
Methane	2	1
TGNMO	2	1
Sample Number: ISS #9		
Methane	2	1
TGNMO	2	1
Sample Number: R-40'		
Methane	ND	1
TGNMO	8	1
Sample Number: TSI		
Oxygen plus Argon	2.0*	0.1
Nitrogen	22.0*	0.1
Methane	39.5*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	36.4*	0.1
TGNMO	851	1

* Result report in percent (%) by volume.

000614

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	NA
444 Irving Drive, Suite 101	Date Received:	NA
Burbank, CA 91504	Date Analyzed:	11/02/99
	Work Order No.:	99-11-0029
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill / J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1

* Result report in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-750

Calscience
Environmental
Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1

L..A. By Products/Sepich Associates, Inc. | Work Order No.: 99-11-0029
Page 1 of 1 | Date Analyzed: 11/02/99

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Oxygen	99	99	80 - 120	0	0 - 20
Nitrogen	98	98	80 - 120	0	0 - 20
Carbon Dioxide	104	106	80 - 120	2	0 - 20
Methane	105	105	80 - 120	0	0 - 20
Carbon Monoxide	88	88	80 - 120	0	0 - 20
TGNMO (as Methane)	101	101	80 - 120	0	0 - 20

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 11/01/99
Work Order No: 99-11-0029
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS #8	99-11-0029-1	10/30/99	Air	N/A	11/03/99	K991103

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	3.4	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	0.89	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	5.8	0.5	1		ppb (v/v)						

ISS #9	99-11-0029-2	10/30/99	Air	N/A	11/03/99	K991103

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	4.8	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.0	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	11	0.50	1		ppb (v/v)						

R-40'	99-11-0029-3	10/30/99	Air	N/A	11/03/99	K991103

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	1.0	2		ppb (v/v)	1,2-Dibromoethane	ND	1.0	2		ppb (v/v)
1,1-Dichloroethene	ND	1.0	2		ppb (v/v)	Trichloroethene	ND	1.0	2		ppb (v/v)
Methylene Chloride	ND	4.0	2		ppb (v/v)	Tetrachloroethene	5.8	1.0	2		ppb (v/v)
1,1-Dichloroethane	ND	1.0	2		ppb (v/v)	Chlorobenzene	ND	1.0	2		ppb (v/v)
Chloroform	6.0	1.0	2		ppb (v/v)	Xylenes (total)	ND	3.0	2		ppb (v/v)
1,2-Dichloroethane	ND	1.0	2		ppb (v/v)	Benzyl Chloride	ND	1.0	2		ppb (v/v)
1,1,1-Trichloroethane	ND	1.0	2		ppb (v/v)	1,3-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Benzene	ND	1.0	2		ppb (v/v)	1,4-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Carbon Tetrachloride	ND	1.0	2		ppb (v/v)	1,2-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Toluene	3.6	1.0	2		ppb (v/v)						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 11/01/99
Work Order No: 99-11-0029
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	**99-11-0029-4**	**11/01/99**	**Air**	**N/A**	**11/03/99**	**K991103**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	230	150	290		ppb (v/v)	1,2-Dibromoethane	ND	150	290		ppb (v/v)
1,1-Dichloroethene	ND	150	290		ppb (v/v)	Trichloroethene	ND	150	290		ppb (v/v)
Methylene Chloride	1400	580	290		ppb (v/v)	Tetrachloroethene	ND	150	290		ppb (v/v)
1,1-Dichloroethane	ND	150	290		ppb (v/v)	Chlorobenzene	490	150	290		ppb (v/v)
Chloroform	ND	150	290		ppb (v/v)	Xylenes (total)	8700	440	290		ppb (v/v)
1,2-Dichloroethane	ND	150	290		ppb (v/v)	Benzyl Chloride	ND	150	290		ppb (v/v)
1,1,1-Trichloroethane	ND	150	290		ppb (v/v)	1,3-Dichlorobenzene	ND	150	290		ppb (v/v)
Benzene	1100	150	290		ppb (v/v)	1,4-Dichlorobenzene	260	150	290		ppb (v/v)
Carbon Tetrachloride	ND	150	290		ppb (v/v)	1,2-Dichlorobenzene	ND	150	290		ppb (v/v)
Toluene	7500	150	290		ppb (v/v)						

Method Blank	**095-01-021-832**	**N/A**	**Air**	**N/A**	**11/03/99**	**K991103**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 11/01/99
Work Order No: 99-11-0029
Preparation: N/A
Method: EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-832	**Air**	**GC/MS K**	**N/A**	**11/03/99**	**K991103**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	101	101	60-140	0	0-30	
1,2-Dichloroethane	92	92	60-140	0	0-30	
Benzene	77	78	60-140	2	0-30	
Carbon Tetrachloride	87	88	60-140	1	0-30	
1,2-Dibromoethane	86	89	60-140	3	0-30	
Trichloroethene	82	83	60-140	1	0-30	
Tetrachloroethene	83	85	60-140	2	0-30	
1,4-Dichlorobenzene	90	92	60-140	3	0-30	
1,2-Dichlorobenzene	85	88	60-140	4	0-30	

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0029

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	10/30/99

CHAIN OF CUSTODY RECORD

SHEET 1 OF _

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		Fixed GAS			TOC	REMARKS
J152-6	10/30 99	9:00 AM	C	1	ISS # 8	✓	✓	✓						
J152-6	10/30 99	9:33 AM	C	1	ISS # 9	✓	✓	✓						
J152-6	10/30 99	10:20 AM	G	1	R - 40'	✓	✓							
J152-6	11-1 99	7:30 AM	G	1	TSI	✓	✓			✓				

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYRO	10/31/99	1215
RECEIVED BY:	[illegible]	CEL	11/1/99	1215
RELINQUISHED BY:	[illegible]	CEL	11/1/99	1600
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	CEL	11/1/99	1600

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	11/30/99 12/01/99 12/02/99
Attn: Robert McAllister RE: Penrose Landfill / J152-6	Work Order No.: Method: Page 1 of 2	99-12-0018 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #13		
Methane	2	1
TGNMO	2	1
Sample Number: ISS #14		
Methane	2	1
TGNMO	2	1
Sample Number: PPS V 73'		
Methane	52	1
TGNMO	10	1
Sample Number: TSI		
Oxygen plus Argon	0.9*	0.1
Nitrogen	20.0*	0.1
Methane	41.4*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	37.7*	0.1
TGNMO	1020	1

* Result reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.		Date Sampled:	NA
444 Irving Drive, Suite 101		Date Received:	NA
Burbank, CA 91504		Date Analyzed:	12/02/99
		Work Order No.:	99-12-0018
Attn: Robert McAllister		Method:	SCAQMD 25.1
RE: Penrose Landfill / J152-6		Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1

* Result reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1

L..A. By Products/Sepich Associates, Inc. | Work Order No.: 99-12-0018
Page 1 of 1 | Date Analyzed: 12/02/99

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Oxygen	100	100	80 - 120	0	0 - 20
Nitrogen	100	100	80 - 120	0	0 - 20
Carbon Dioxide	104	104	80 - 120	0	0 - 20
Methane	103	103	80 - 120	0	0 - 20
Carbon Monoxide	92	91	80 - 120	1	0 - 20
TGNMO (as Methane)	92	93	80 - 120	1	0 - 20

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/01/99
Work Order No: 99-12-0018
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS #13	99-12-0018-1	11/30/99	Air	N/A	12/02/99	E991202A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	8.0	2.0	1		ppb (v/v)	Tetrachloroethene	1.1	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	8.0	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	2.1	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	12	0.50	1		ppb (v/v)						

ISS #14	99-12-0018-2	11/30/99	Air	N/A	12/02/99	E991202A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	2.0	2.0	1		ppb (v/v)	Tetrachloroethene	1.1	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	7.0	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	2.4	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	13	0.50	1		ppb (v/v)						

PPS V 73'	99-12-0018-3	11/30/99	Air	N/A	12/03/99	E991203A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.0	4		ppb (v/v)	1,2-Dibromoethane	ND	2.0	4		ppb (v/v)
1,1-Dichloroethene	ND	2.0	4		ppb (v/v)	Trichloroethene	ND	2.0	4		ppb (v/v)
Methylene Chloride	ND	8.0	4		ppb (v/v)	Tetrachloroethene	14	2	4		ppb (v/v)
1,1-Dichloroethane	ND	2.0	4		ppb (v/v)	Chlorobenzene	ND	2.0	4		ppb (v/v)
Chloroform	ND	2.0	4		ppb (v/v)	Xylenes (total)	ND	6.0	4		ppb (v/v)
1,2-Dichloroethane	ND	2.0	4		ppb (v/v)	Benzyl Chloride	ND	2.0	4		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0	4		ppb (v/v)	1,3-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Benzene	ND	2.0	4		ppb (v/v)	1,4-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Carbon Tetrachloride	ND	2.0	4		ppb (v/v)	1,2-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Toluene	4.4	2.0	4		ppb (v/v)						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/01/99
Work Order No: 99-12-0018
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	99-12-0018-4	11/30/99	Air	N/A	12/02/99	E991202A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	420	130	250		ppb (v/v)	1,2-Dibromoethane	ND	130	250		ppb (v/v)
1,1-Dichloroethene	580	130	250		ppb (v/v)	Trichloroethene	ND	130	250		ppb (v/v)
Methylene Chloride	570	500	250		ppb (v/v)	Tetrachloroethene	210	130	250		ppb (v/v)
1,1-Dichloroethane	ND	130	250		ppb (v/v)	Chlorobenzene	1300	130	250		ppb (v/v)
Chloroform	ND	130	250		ppb (v/v)	Xylenes (total)	17000	380	250		ppb (v/v)
1,2-Dichloroethane	ND	130	250		ppb (v/v)	Benzyl Chloride	ND	130	250		ppb (v/v)
1,1,1-Trichloroethane	ND	130	250		ppb (v/v)	1,3-Dichlorobenzene	ND	130	250		ppb (v/v)
Benzene	2000	130	250		ppb (v/v)	1,4-Dichlorobenzene	1200	130	250		ppb (v/v)
Carbon Tetrachloride	ND	130	250		ppb (v/v)	1,2-Dichlorobenzene	360	130	250		ppb (v/v)
Toluene	11000	250	500	D	ppb (v/v)						

Method Blank	095-01-021-851	N/A	Air	N/A	12/02/99	E991202A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)						

Method Blank	095-01-021-855	N/A	Air	N/A	12/03/99	E991203A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received:	12/01/99
Work Order No:	99-12-0018
Preparation:	N/A
Method:	EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-851	Air	GC/MS E	N/A	12/02/99	E991202A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	99	104	60-140	4	0-30	
1,2-Dichloroethane	94	88	60-140	6	0-30	
Benzene	90	90	60-140	0	0-30	
Carbon Tetrachloride	94	88	60-140	7	0-30	
1,2-Dibromoethane	97	94	60-140	3	0-30	
Trichloroethene	93	89	60-140	4	0-30	
Tetrachloroethene	88	92	60-140	4	0-30	
1,4-Dichlorobenzene	102	99	60-140	3	0-30	
1,2-Dichlorobenzene	101	98	60-140	3	0-30	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received:	12/01/99
Work Order No:	99-12-0018
Preparation:	N/A
Method:	EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-855	Air	GC/MS E	N/A	12/03/99	E991203A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	106	113	60-140	7	0-30	
1,2-Dichloroethane	79	84	60-140	6	0-30	
Benzene	92	90	60-140	2	0-30	
Carbon Tetrachloride	75	77	60-140	3	0-30	
1,2-Dibromoethane	95	92	60-140	3	0-30	
Trichloroethene	87	89	60-140	2	0-30	
Tetrachloroethene	89	88	60-140	1	0-30	
1,4-Dichlorobenzene	97	96	60-140	2	0-30	
1,2-Dichlorobenzene	95	94	60-140	1	0-30	

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Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 99-12-0018

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
ND	Not detected at indicated reporting limit.

000628

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0018

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	11-30-99

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4				FIXED GAS	TOC	REMARKS
J152-6	11/30/99	7:15 AM	C	1	ISS #13	✓	✓	✓						
J152-6	11/30/99	9:40 AM	C	1	ISS #14	✓	✓	✓						
J152-6	11/30/99	10:35 AM	G	1	PPS V 73'	✓	✓							
J152-6	11/29/99	2:00 PM	G	1	TSI	✓	✓					✓		

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	12-1-99	
RECEIVED BY:	[illegible]	Cal Science	12/1/99	1203
RELINQUISHED BY:	[illegible]	Cal Science	12/1/99	1440
RECEIVED BY:	[illegible]	[illegible] CEL	12/1/99	1500
RELINQUISHED BY:				
RECEIVED BY:				

000623

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	12/21/99
444 Irving Drive, Suite 101	Date Received:	12/21/99
Burbank, CA 91504	Date Analyzed:	12/22/99
	Work Order No.:	99-12-0815
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill / J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #38		
Methane	2	1
TGNMO	ND	1
Sample Number: ISS #39		
Methane	2	1
TGNMO	ND	1
Sample Number: PPS U 10'		
Methane	ND	1
TGNMO	ND	1
Sample Number: TSI		
Oxygen plus Argon	1.2*	0.1
Nitrogen	11.1*	0.1
Methane	47.4*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	40.3*	0.1
TGNMO	4320	5

* Result reported in percent (%) by volume.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	NA
444 Irving Drive, Suite 101	Date Received:	NA
Burbank, CA 91504	Date Analyzed:	12/22/99
	Work Order No.:	99-12-0815
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill / J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1

* Result reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1

L.A. By Products/Sepich Associates, Inc. | Work Order No.: 99-12-0815

Page 1 of 1 | Date Analyzed: 12/22/99

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Oxygen	100	100	80 - 120	0	0 - 20
Nitrogen	100	100	80 - 120	0	0 - 20
Carbon Dioxide	104	104	80 - 120	0	0 - 20
Methane	104	103	80 - 120	1	0 - 20
Carbon Monoxide	87	83	80 - 120	5	0 - 20
TGNMO (as Methane)	95	95	80 - 120	0	0 - 20

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/21/99
Work Order No: 99-12-0815
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS#38	99-12-0815-1	12/21/99	Air	N/A	12/22/99	K991222A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.57	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	6.1	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	2.3	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	9.7	0.5	1		ppb (v/v)						

ISS#39	99-12-0815-2	12/21/99	Air	N/A	12/22/99	K991222A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	4.9	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.6	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	8.4	0.5	1		ppb (v/v)						

PPS U 10'	99-12-0815-3	12/21/99	Air	N/A	12/22/99	K991222A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.60	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	3.1	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	0.63	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	3.6	0.5	1		ppb (v/v)						

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 12/21/99
Work Order No: 99-12-0815
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	99-12-0815-4	12/21/99	Air	N/A	12/22/99	K991222A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	490	200	400		ppb (v/v)	1,2-Dibromoethane	ND	200	400		ppb (v/v)
1,1-Dichloroethene	ND	200	400		ppb (v/v)	Trichloroethene	1100	200	400		ppb (v/v)
Methylene Chloride	4000	800	400		ppb (v/v)	Tetrachloroethene	3200	200	400		ppb (v/v)
1,1-Dichloroethane	1100	200	400		ppb (v/v)	Chlorobenzene	ND	200	400		ppb (v/v)
Chloroform	ND	200	400		ppb (v/v)	Xylenes (total)	20000	600	400		ppb (v/v)
1,2-Dichloroethane	ND	200	400		ppb (v/v)	Benzyl Chloride	ND	200	400		ppb (v/v)
1,1,1-Trichloroethane	ND	200	400		ppb (v/v)	1,3-Dichlorobenzene	ND	200	400		ppb (v/v)
Benzene	1800	200	400		ppb (v/v)	1,4-Dichlorobenzene	300	200	400		ppb (v/v)
Carbon Tetrachloride	ND	200	400		ppb (v/v)	1,2-Dichlorobenzene	ND	200	400		ppb (v/v)
Toluene	35000	1600	3200	D	ppb (v/v)						

Method Blank	095-01-021-875	N/A	Air	N/A	12/22/99	K991222A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 12/21/99
Work Order No: 99-12-0815
Preparation: N/A
Method: EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-01-021-875	Air	GC/MS K	N/A	12/22/99	K991222A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	115	114	60-140	1	0-30	
1,2-Dichloroethane	109	106	60-140	2	0-30	
Benzene	108	106	60-140	1	0-30	
Carbon Tetrachloride	92	89	60-140	4	0-30	
1,2-Dibromoethane	112	109	60-140	3	0-30	
Trichloroethene	103	102	60-140	1	0-30	
Tetrachloroethene	101	99	60-140	3	0-30	
1,4-Dichlorobenzene	108	106	60-140	2	0-30	
1,2-Dichlorobenzene	115	112	60-140	2	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	12-21-99

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4			Fixed GAS		PBG	REMARKS
J152-6	12-21-99	8:35 AM	C	1	ISS # 38	X	X	X						
J152-6	12-21-99	9:05 AM	C	1	ISS # 39	X	X	X						
J152-6	12-21-99	9:30 AM	G	1	PPS 4 10'	X	X							
J152-6	12-21-99	10:00 AM	G	1	TS I	X	X				X			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYRO	12-21-99	[illegible]
RECEIVED BY:	[illegible]	Calscience	12/21/99	1130
RELINQUISHED BY:	[illegible]	"	12/21/99	1541
RECEIVED BY:	[illegible]		12/21/99	1541
RELINQUISHED BY:				
RECEIVED BY:				

TOTAL P.10

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SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

TEL (818) 707-3036
(805) 552-0000
FAX (818) 707-3012
(805) 552-0001

April 26, 2000

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

RECEIVED
APR 26 2000
L.A. BY-PROD CO.

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for First Quarter, 2000
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the twenty sixth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period January through March 2000.

Monitoring and sampling for this report was performed on January 6, 7, and 25, February 4, 7, 11, and 17, and March 2, 10, 11, and 31, 2000.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

• General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (October 1989 revisions of the Guidelines are in effect through this report; revised guidelines were incorporated into the amended Rule 1150.1 on April 10, 1998, and the Revised Rule was approved for Penrose Landfill by SCAQMD in December 1999), and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products (LABP) was ordered to comply with requirements for Rule 1150.1, that were submitted to SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue (also 11501 Strathern St.), Sun Valley, California.

Rule 1150.1 requires subsurface refuse boundary probe monitoring (SRBPM) and sampling (SRRBS), integrated landfill surface sampling (ILSS), instantaneous landfill surface monitoring (ILSM), ambient air sampling (AAS), and plant inlet (TSI, for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Ambient air sampling requirements are not included in the routine quarterly monitoring for Penrose. Per Rule 1150.1 simultaneous source tests at the inlet and outlet of the gas disposal system are done at Penrose on an annual basis, and reported in the next quarterly report after data is available.

On April 10, 1998 SCAQMD approved an amended version of (General) Rule 1150.1: Control of Gaseous Emissions from Municipal Solid Waste (MSW) Landfill. The amended Rule required that owners of all MSW landfills within the district submit a statement of intent to comply with the amended Rule within 90 days of the amendment date. On July 10, 1998, Sepich Associates/Methane Specialists prepared and submitted a revised compliance plan to SCAQMD for the Los Angeles By-Products Company. Per § (k) of the amended Rule the submittal for Penrose LF contains exemptions subject to SCAQMD approval. On December

17, 1999, SCAQMD issued approved Compliance Plans to all (private) landfill owners within the district. The previous compliance plan was in effect through the First Quarter of 2000 (including this report), however, compliance to the revised Rule was expected to be established by the end of the First Quarter. Future quarterly reports will reflect requirements, organization, and terminology of the new (revised) Compliance Plan.

A.1 *Subsurface Refuse Boundary Probe Monitoring (Attachment A, 1.2)*

Subsurface refuse boundary probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

1.2.1: If the TOC concentrations *measured with the FID does not exceed 5% by volume in any of the probes, collect one bag sample from one probe with the highest concentration, or*

1.2.2: If the TOC concentration *measured with the FID exceeds 5% by volume, collect one bag sample per probe from the probes with the highest concentrations above 5% by volume, from at least five probes.*

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If subsurface refuse boundary probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the subsurface refuse boundary probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Landfill Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Landfill Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly subsurface refuse boundary probe monitoring and sampling, integrated landfill surface sampling, instantaneous landfill surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.
2. Types and weights of waste materials deposited in the reporting year.
3. Total amount of waste materials deposited to date.
4. Contour map showing updated landfill boundary.
5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.
6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, January through March 2000, field monitoring was conducted on January 6, 7, and 25, February 4, 7, 11, and 17, and March 2, 10, 11, and 31, 2000. Samples were collected for laboratory analysis on February 7, March 2, and March 16, 2000 (see Exhibit C for field documentation and Exhibit D for laboratory results). The instantaneous surface monitoring was not completed because the FID dysfunctioned and was not available. The periodic sampling for the month of March was unintentionally forgotten.

B.1 Subsurface Refuse Boundary Probe Monitoring and Sampling

Subsurface refuse boundary probe monitoring on January 6, February 11, and March 10, 2000 was conducted by Sepich Associates/Methane Specialists personnel using a Bacharach Gas Pointer II, Combustible Gas Detector (January), or a Bacharach HPK, Combustible Gas Indicator (February and March). Subsurface refuse boundary probe monitoring on January 25, February 17, and March 31, 2000 was conducted by LABP personnel using a GasTech Natural Gas Indicator Model NPL-204. Subsurface refuse boundary probes were sampled by Los Angeles By-Products personnel on February 7, and March 2, 2000.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California.

Subsurface refuse boundary probe sampling was conducted at Probe P (40') on February 7, and at Probe V (40') on March 2, 2000. A map of probe locations can be found in Exhibit A, subsurface refuse boundary probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Landfill Surface Sampling (ILSS)

Integrated landfill surface sampling was conducted on February 7, and March 2 and 16, 2000. On February 7, Areas 48 and 49 were sampled (see Integrated Surface Sampling Map in Exhibits A and C); and on March 2, Areas 39 and 42 were sampled. Area 39 was re-sampled on March 16, 2000.

The integrated landfill surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. All ILSS field monitoring results for the First Quarter TOC and H_2S concentrations were non-detect. Laboratory results are summarized in Table IV.

B.3 Instantaneous Landfill Surface Monitoring (ILSM)

Instantaneous landfill surface monitoring Path A was traversed on January 7, 2000. Path B was traversed on February 4, 2000. On January 7, 2000, an insignificant detection of 4 ppmv was recorded near Probe 11 (see probe location map in Exhibit A). In February no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Ogden Power Pacific, Inc. electrical generation plant inlet pipeline on February 7, and March 2, 2000. TOC was monitored with a GasTech Natural Gas Meter, Model NPL-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

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B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were last collected on August 22, 1997 and results of inlet analyses were reported in the third and fourth quarter 1997 reports.

B.6 Reporting Requirements

This is the twenty sixth in a series of quarterly reports and the first quarterly report for Penrose Landfill for 2000. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Subsurface refuse boundary probe monitoring is performed bi-monthly by Sepich Associates/Methane Specialists and LABP. The early (to mid-) month data is usually used to select the monthly probe sampling stations and the (mid to) late-month monitoring is used to fulfill any required follow-up probe monitoring. If gas is detected by agency inspectors their findings may influence the selection of probe sampling stations. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Subsurface refuse boundary probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are attached in Exhibit D.

C.1 Subsurface Refuse Boundary Probe Monitoring and Laboratory Results

Subsurface refuse boundary probe monitoring on January 6, 2000 registered no detections greater than 5% of volume. On January 30, 2000, Probe R (40') was sampled. Laboratory analytical results are presented in Table I below and in Exhibit D.

Table I - January 2000
SUMMARY OF FIELD TOC RESULTS
FOR SUBSURFACE REFUSE BOUNDARY PROBE SAMPLED ON February 7, 2000

Probe No.	Depth (ft)	TOC 1/25/00 (% Vol)	TOC 2/7/00 (% Vol)	Lab Results 2/7/00 (% Vol)	Follow up TOC 2/11/00 (% Vol)
P	40	ND	ND	0.0004	ND

Note: Laboratory samples were collected 2/7/00. Field values are volume percent TOC.

ND = None detected

000642

Subsurface refuse boundary probe monitoring on February 17, 2000 recorded no detections greater than non-detect, however, the February 11, 2000 SRBPM had the highest reading of the monitoring event at Probe V at 40 feet. Probe V (40') was sampled on March 2, 2000. Laboratory analytical results are presented in Table II below and in Exhibit D.

Table II - February 2000
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR SUBSURFACE REFUSE BOUNDARY PROBE SAMPLED ON March 2, 2000

Probe No.	Depth (ft)	TOC 2/11/00 (% Vol)	TOC 2/17/00 (% Vol)	TOC 3/2/00 (% Vol)	Lab Result 3/2/00 (% Vol)	Follow up TOC 3/10/00 (% Vol)
V	40	0.9	ND	2	2.3	ND

Note: Laboratory samples were collected 3/2/00. Laboratory results are volume percent of methane. Field values are volume percent TOC.

For March 2000 no subsurface refuse boundary probe sampling was performed (see lab results in Table III for non-results).

Table III - March 2000
SUBSURFACE REFUSE BOUNDARY PROBE SAMPLES NOT WERE COLLECTED FOR MARCH

Probe No.	Depth (ft)	1ST TOC (% Vol)	2ND TOC (% Vol)	Lab Results (% Vol)	Follow-up TOC (% Vol)
NA	NA	NA	NA	NA	NA

Note: Laboratory samples were not collected.

NA = Not available.

C.2 Integrated Landfill Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-15. Table IV summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FIRST QUARTER 2000
SUMMARY of ANALYTICAL RESULTS from INTEGRATED LANDFILL SURFACE SAMPLES

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
2/7/00 AREA # 48	2	2
2/7/00 AREA # 49	2	4
3/2/00 AREA # 39	62	2
3/2/00 AREA # 42	2	2
3/16/00 AREA # 39	2	2
NA	NA	NA
NA	NA	NA

Note: Laboratory samples were designated ISS # (number corresponds to area on the Integrated Surface Sampling Map in Exhibits A and C). March 16, 2000 sampling was a follow-up to an exceedance on March 2, 2000. No ISS samples were collected for the March 2000 Rule requirement.

C.3 Instantaneous Landfill Surface Monitoring Results

As noted in section B.3, the no instantaneous landfill surface monitoring detection greater than 4 ppmv were recorded during the First Quarter of 2000. The FID broke down - March 2000 surface monitoring was not completed.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 41.9% methane on February 7, and 42.1% methane on March 2, 2000. Dreager tube analytical results were 40 ppm H_2S on February 7, and 75 ppm H_2S on March 2, 2000. TSI sampling was not done for March 2000. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling was last conducted on August 22, 1997.

C.6 Report Requirements

This report constitutes the 2000, First Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

As a first quarter report the required annual requirements 8.2 are included below.

A. Ogden Power Pacific's power plant, located in the northeast corner of the property, had been the only facility operating on the property for the past decade. During 1998 a BMX bicycle track and accompanying modular trailer and parking were added in the northeast corner of the property, south of the power plant. During 1999, in the southern half of the property, is a golf driving range with accompanying clubhouse, storage shed, parking, and access entries were added.

B. No wastes materials have been deposited in the landfill during this reporting period.

C. The total material deposited in Penrose Landfill to date is estimated at 14 million tons.

D. A contour map with the landfill boundary is included in Exhibit A. Trash extends throughout the site to within 10 feet of the property line, except along the south property line where trash is approximately 50 feet north of the property line and at the corners of the site where "rounding" resulted from accommodating excavation. The contour map with recent additions sketched in is included in Exhibit E. A new, current, base map is being generated from an air photo survey flown early in April.

E. The collection system and the electrical power (disposal system) plant is operated by Ogden Power Pacific. Their records of the amount of landfill gas collected during the years 1988 through 1999 and projections are included in Exhibit E (amounts are in MMBTU).

F. Maps of the collection system and disposal (electric power plant) system are included in E above. The annual disposal rates during the years 1988 through 1999 are included in E above.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

On December 29, 1999, an SCAQMD Inspector detected > 500 ppmv TOC (see Notice to Comply, Exhibit C) at a pipeline lateral near a water trap. The leak was mitigated and on January 11, 2000, the Inspector detected < 10 ppmv TOC.

Laboratory analyses of ISS #39 collected on March 2, 2000 (for February 2000) indicated a TOC of 64 ppmv (i.e. CH_4 + TGNMO > 50 ppmv specified in A.2, 3.6, p.3, above). A probe in the area, Probe V at 40' had a lab result of 2.3 % by volume (i.e. > 1% by volume specified in A.1, 2.6, p.2, above). Adjustments were made to the gas collection system and

the lab results from a March 16, 2000 follow-up sampling of ISS #39 were 2 ppm of CH_4 plus 2 ppm of TGNMO. The monitoring result from Probe V at 40', on March 10, 2000, was non-detect (detection limit approximately 0.05% of volume).

Major compliance endeavors enacted by Los Angeles By-Products Company and Ogden Power Pacific in the past several years include:

- Mitigation well (8 wells) program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter 1995 (including changing the gas collection system); probes 2 through 8 were replaced at this time;
- Replacement probe (A1, K1, and J1) installation in Fourth Quarter, 1995; and
- Closure plan construction at Clubhouse and BMX track locations in 1998 and 1999.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
exp. 6-30-2000
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.626/atf

Public Facilities Branch / SCAQMD Apr. 26, 2000

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Mr. George M. Payba

California Integrated Waste Management Board

- Mr. Peter Janicke

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - First Quarter, 2000
- EXHIBIT D: Laboratory Analytical Results - First Quarter, 2000
- EXHIBIT E: Documentation for Annual Requirements - First Quarter, 2000

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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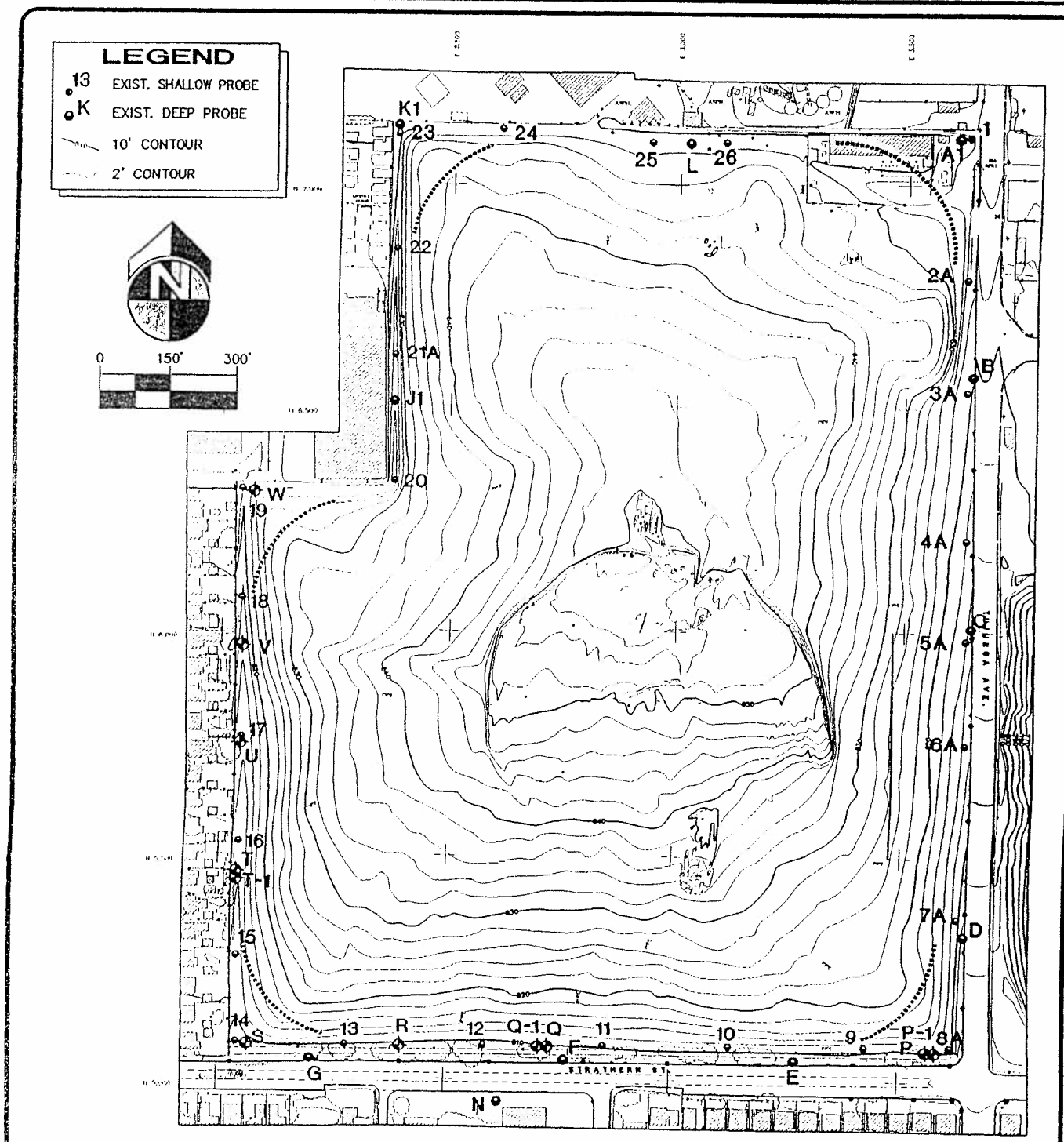
J152-6

PENROSE LANDFILL MONITORING PROBE LOCATIONS



SEPICH ASSOCIATES, Inc.
CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS
680 WALNUT ST.
MOORPARK, CA 93021
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FAX: (818) 707-3012 (805) 552-0001

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

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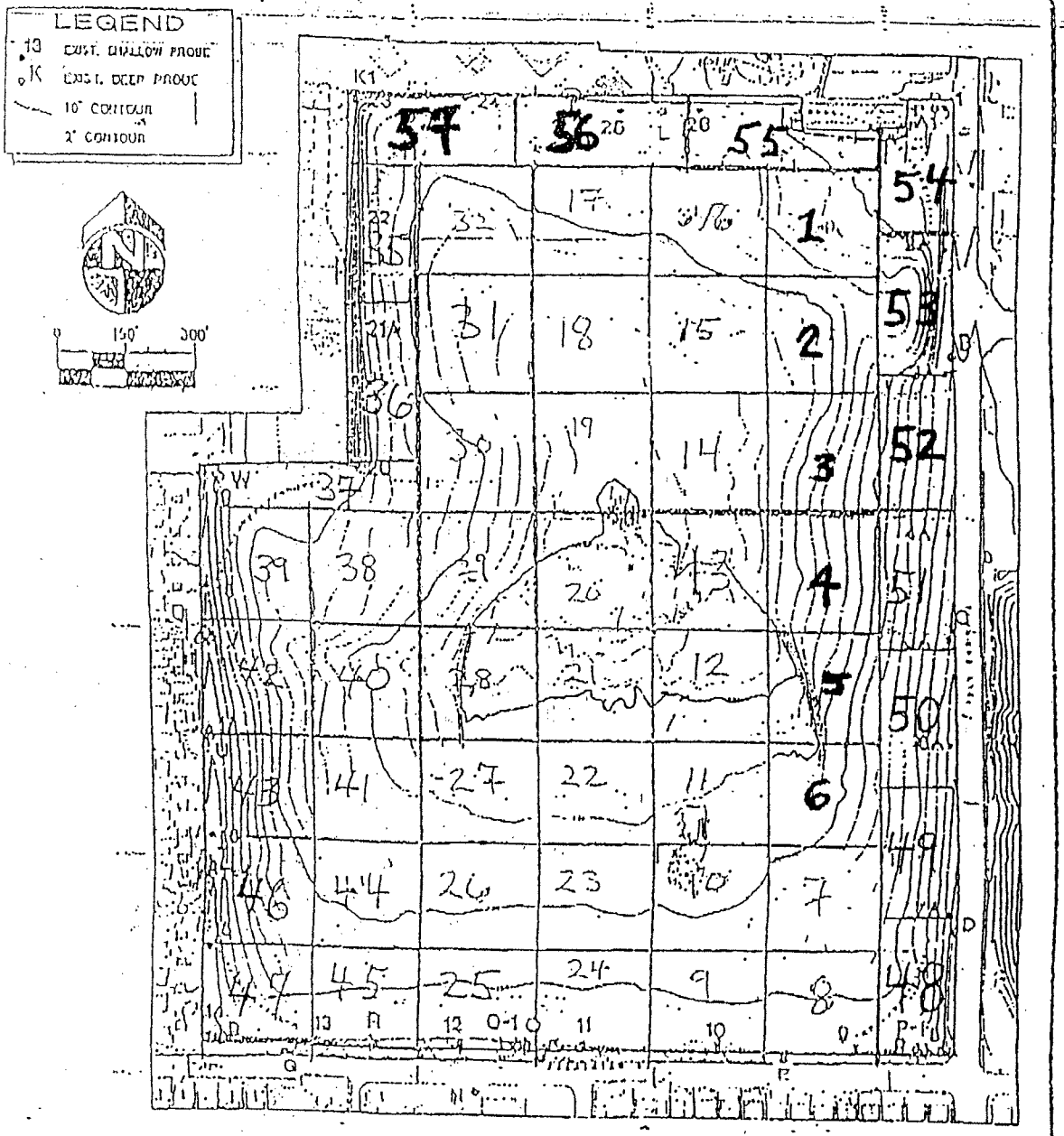
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



SEPICH ASSOCIATES, Inc.
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SOIL TECHNOLOGY
SANITARY
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WASTE AND
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Los Angeles By-Products Co.
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SHEET ___ OF ___

TOTAL P.01

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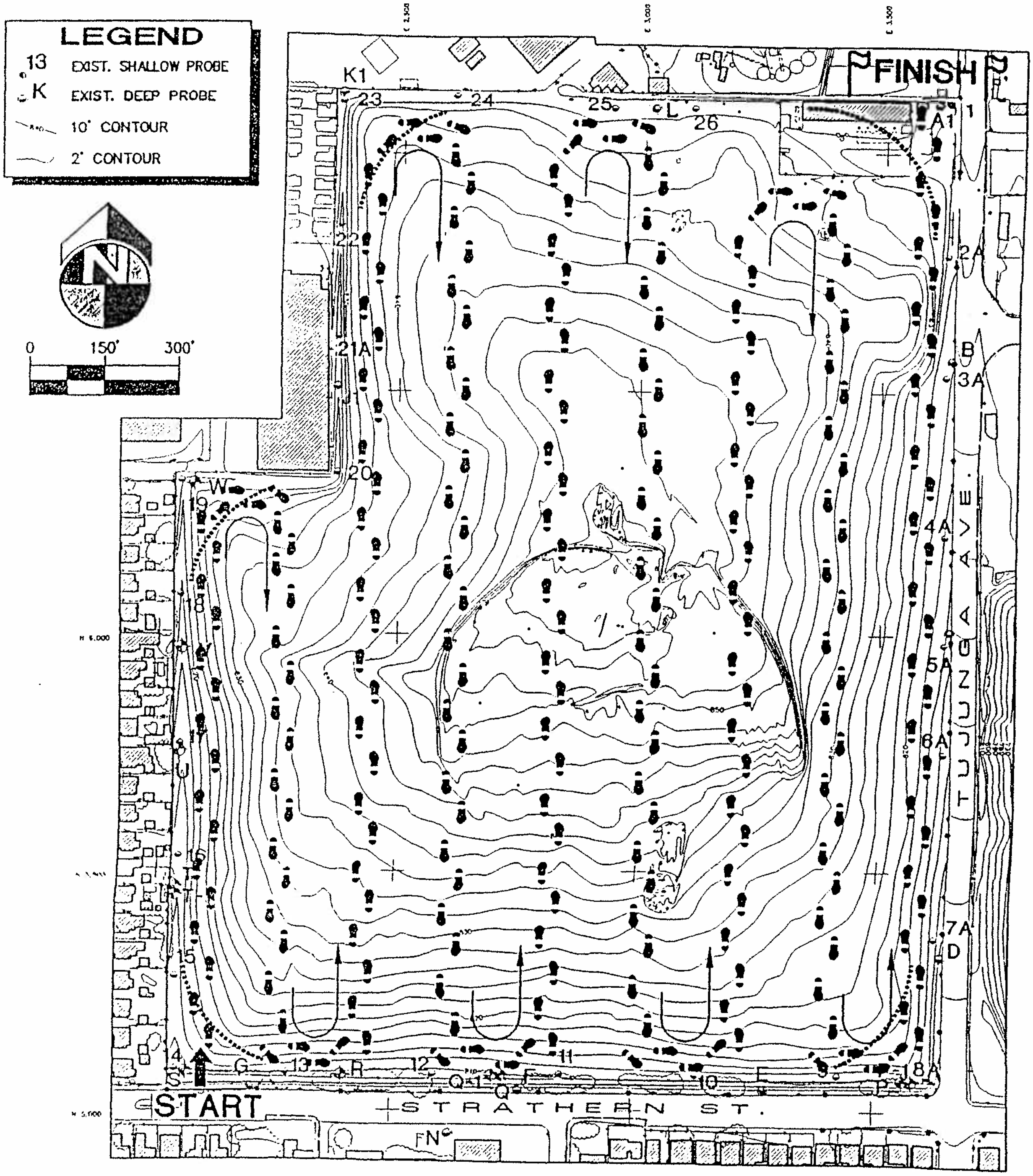
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

3-12-93 J152PATH

SEPICH ASSOCIATES, Inc.
680 WALNUT ST.
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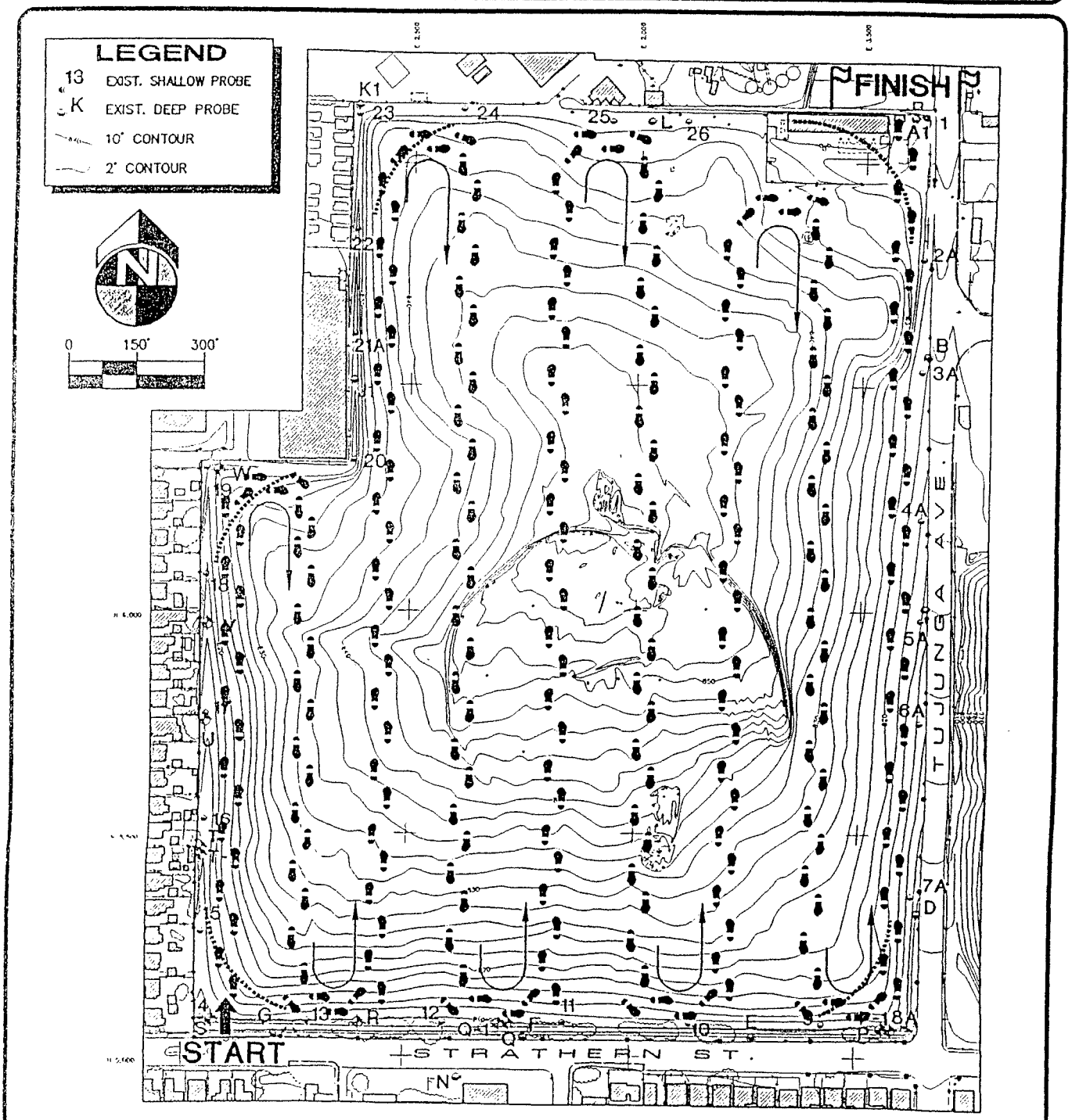
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

SEPICH ASSOCIATES, Inc.
680 WALNUT ST.
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TEL: (818) 707-3036 (805) 552-0000
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3-12-93 J:\62PATH

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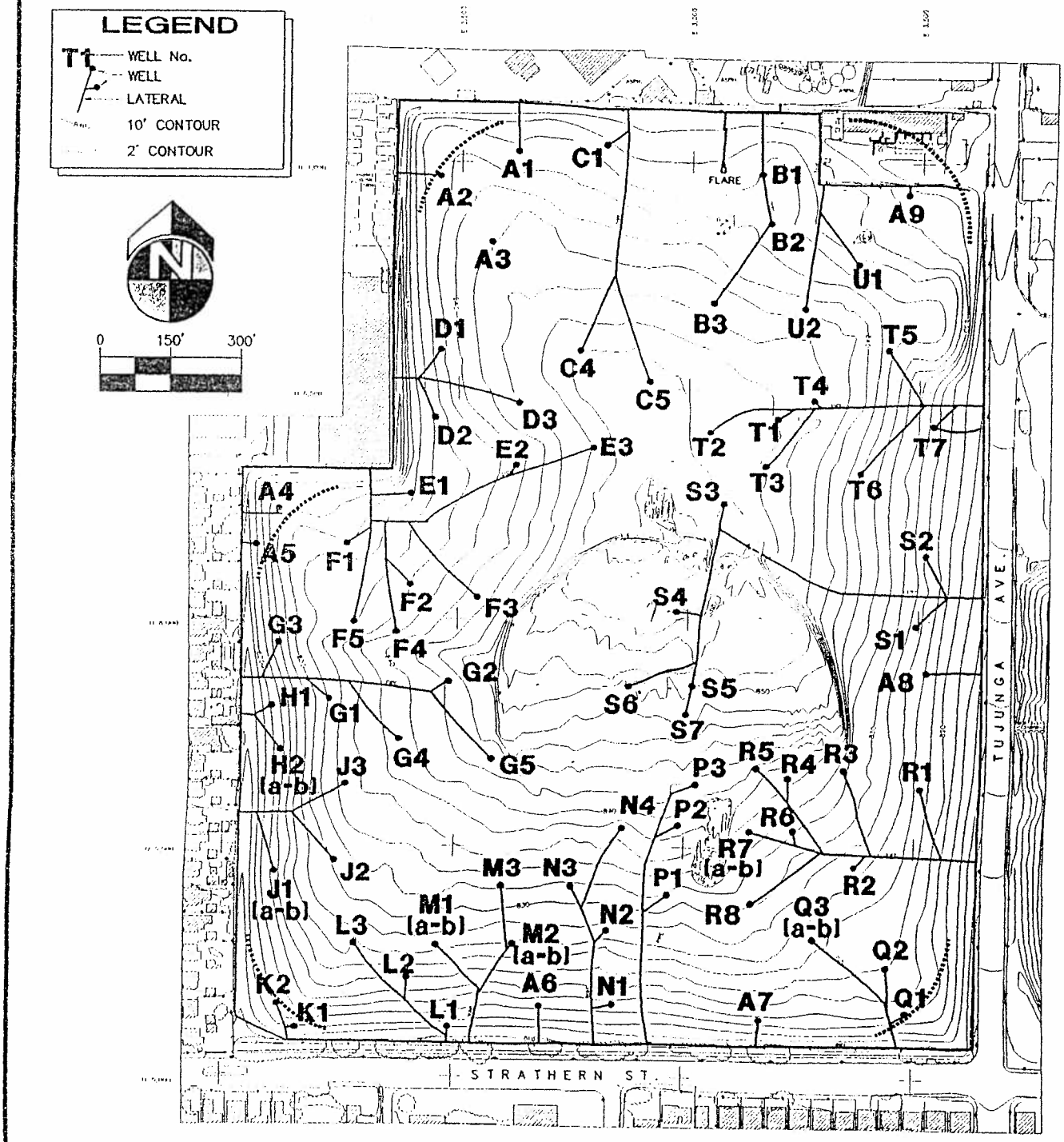
J152-6

PENROSE LANDFILL
GAS COLLECTION SYSTEM



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Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

SHEET OF

EXHIBIT B

Core Group Toxic Air Contaminants

1.	Benzene	C_6H_6
2.	Benzyl Chloride	$C_6H_5CH_2Cl$
3.	Chlorobenzene	C_6H_5Cl
4.	1,2 Dibromoethane (Ethylene Dibromide)	$BrCH_2CH_2Br$
5.	Dichlorobenzene	$C_6H_4Cl_2$
6.	1,1-Dichloroethane (Ethylidene Chloride)	CH_3CHCl_2
7.	1,2-Dichloroethane (Ethylene Dichloride)	$ClCH_2CH_2Cl$
8.	1,1-Dichloroethene (Vinylidene Chloride)	$CH_2{:}CCl_2$
9.	Dichloromethane (Methylene Chloride)	CH_2Cl_2
10.	Hydrogen Sulfide	H_2S
11.	Tetrachloroethylene (Perchloroethylene - PCE)	$Cl_2C{:}CCl_2$
12.	Tetrachloromethane (Carbon Tetrachloride)	CCl_4
13.	Toluene	$C_6H_5CH_3$
14.	1,1,1-Trichloroethane (Methyl Chloroform)	CH_3CCl_3
15.	Trichlorethylene (TCE)	$CHCl{:}CCl_2$
16.	Trichloromethane (Chloroform)	$CHCl_3$
17.	Vinyl Chloride	$CH_2{:}CHCl$
18.	Xylene	$C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - First Quarter, 2000

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J481

Ogden Power Pacific
13181 Crossroads Parkway North, Suite 250
City of Industry, California 91746
Tel: (562) 695-2442 Fax: (562) 645-5683

JOB NAME: PENROSE LANDFILL

DATE: 1-6-00

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: GTF

TIME: 1215-1600

INSTRUMENT: BACHARACH GASPOINTER II

PARAMETER: % Volume VOC *

REMARKS: Pre-checked GPII w/2.5% CH4 calibrant: registered 45% LEL. *Instrument reads registered in % LEL combustible gas (or VOC = volatile organic compounds). % LEL reads (from field log) were converted to % volume on this log. ND = ~~not detected~~ W = water

PROBE #			PROBE #							
1	ND		A-1		ND				10'	ND	
2 A	ND		B		X	vault crushed	R		40'	ND	
3 A	ND		C	GREEN-21'	ND				80'	ND	
4 A	ND			YELLOW-41'	ND				120'	ND	
5 A	ND			ORANGE-61'	X	missing			10'	ND	
6 A	ND			RED - 81'	ND		S		40'	ND	
7 A	ND		D		ND				80'	ND	
8 A	ND		E		ND				120'	ND	
9	ND		F		ND				10'	ND	
10	ND		G		ND		T		40'	ND	
11	ND		J-1		ND				73'	ND	hard draw
12	ND		K-1		ND		T-1		72'	ND	
13	ND		L	GREEN-45'	ND				10'	ND	
14	ND			YELLOW-65'	ND		U		37'	ND	
15	ND			ORANGE-85'	ND				68'	ND	
16	ND			RED - 105'	ND				10'	ND	
17	ND		N	GREEN-22'	ND		V		40'	ND	
18	ND			YELLOW-45'	ND				73'	ND	
19	ND			ORANGE-68'	ND				10'	ND	
20	ND			RED - 90'	ND				40'	ND	
21 A	ND		P	10'	ND		W		80'	ND	
22	ND			40'	ND				120'	ND	
23	ND			80'	0.25				158'	ND	
24	ND		P-1	120'	W						
25	ND		Q	10'	ND		TSI				
26	ND			40'	ND						
				75'	ND						
			Q-1	120'	ND						
				158'	ND						

SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3312

REV. 2-19-99

000656

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
3017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-8321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 1/7/00

INSPECTION REPORT

CLIMATE: bright / clear / fog / cloudy / overcast / rain — <32° F / 33°-65° / 66°-70° / 71°-85° / 86°-100° / >100° F — still / breeze / wind — dry / moderate / humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: The electronic wind speed indicator detected ND. Instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 1/5/00. Monitor began at 8:00 am and was complete at 9:35 am. Contractor followed PATH A. Last rain recorded was over 72 hours ago. The result of monitor was 4ppm at the golf range entrance coming from Ogden pipe, otherwise ND for rest of SITE.

☐ REINSPECTION REQUIRED

INSPECTOR

PRINCIPAL

SHEET ___ OF

South Coast Air Quality Management District
21865 E. Copley Drive, P. O. Box 4941, Diamond Bar 91765-4941

DATE OF INSPECTION: 12/23/99

NOTICE TO COMPLY

LA By-Products Co

The following numbered Notices to Comply (served concurrently herewith) constitute parts of this Notice to Comply: Notice #(s):

FACILITY NAME: Penrose Landfill		FACILITY ID #: 024325	
LOCATION ADDRESS: 8301 Tujunga Avenue		MAILING ADDRESS: 8301 Tujunga Avenue	
CITY: Sun Valley	ZIP: 91352	CITY: Sun Valley	ZIP: 91352
SECTOR: PL		TELEPHONE #: (213) 875-1095	

YOU ARE DIRECTED TO COMPLY WITH:

ITEM #	• AQMD Permit # or Equipment Desc. • AQMD Rule # • Cal H&S Code §	A MEANS OF ACHIEVING COMPLIANCE IS:	DATE COMPLIANCE DUE
1	Rule 1150.1 d(6)	Discontinue allowing the emissions of organic	1/10/2000
2		compounds (measured	
3		as Methane) greater than 500PPM located at old lateral (s) adj to Trap S1.	

REPLY REPORT BY CITED FACILITY:
(attach additional pages as necessary)

DATE COMPLIANCE ACHIEVED	DESCRIPTION OF HOW COMPLIANCE WAS ACHIEVED:
1/3/2000	LA By Products dugged up 3' of dirt, Compacted over loc w/ bentonite
	1/11/99 L. Israel verified compliance w/ Rule 1150.1 measured <10PPM.

SERVED TO: Victor Lam
TITLE: Field Foreman c/o Ogden Power Pacific
BY INSPECTOR: L. B. Israel
TELEPHONE: (909) 396-2370
DATE: December 29 1999

SIGNATURE OF OWNER/RESPONSIBLE OFFICIAL:
TITLE:
DATE: 01-11-2000.

INSTRUCTIONS/INFORMATION:

- For each minor violation cited compliance shall be achieved by the due date specified above for that particular violation.
- Within 5 working days of achieving compliance for each respective violation, the owner/responsible officer of the cited facility must complete and return a signed copy of this Notice to the South Coast Air Quality Management District at the address listed above. Please copy this Notice as many times as necessary to provide the required information. On each copy, include a written statement describing when and how compliance was achieved. Send all completed copies to the attention of the inspector named above.
- Failure to respond or a false statement that compliance has been achieved is a violation subject to further legal action pursuant to the California Health and Safety Code.
- Any person issued a Notice to Comply may appeal the issuance by filing a written appeal, including all reasons for the appeal, with the South Coast Air Quality Management District at the address listed above within 7 days of receipt of the Notice.
- **The facility cited in this Notice is subject to reinspection at any time to ensure compliance.**

NO. C 59055 **SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

SOURCE COPY

Verbal - Larry Israel to Victor indicated 1/11/00 reads were ND (<10 ppmv TOC). GTF

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000635

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 1/25/00

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	R.M.
TIME	
INSTRUMENT	
PARAMETER	

REMARKS

~ Perimeter Probe monitor ~
Began at 1:00pm finished at 3:30pm.

PROBE #		TOC
1		ND
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		

PROBE #		TOC				
A-1		ND		R	10'	ND
B					40'	
C	GREEN-21'				80'	
	YELLOW-41'				120'	
	ORANGE-61'			S	10'	
	RED - 81'				40'	
D					80'	
E					120'	
F				T	10'	
G					40'	
J-1					73'	
K-1				T-1	72'	
L	GREEN-45'			U	10'	
	YELLOW-65'	.2%			37'	
	ORANGE-85'	ND			68'	
	RED - 105'			V	10'	
N	GREEN-22'				40'	
	YELLOW-45'				73'	
	ORANGE-68'			W	10'	
	RED - 90'				40'	
P	10'				80'	
	40'				120'	
	80'				158'	
P-1	120'					
Q	10'			TSI		
	40'					
	75'					
Q-1	120'					
	158'					

SENCH ASSOCIATES, INC. METHANE SPECIALISTS 680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3035 FAX (818)707-3212

REV. 2-22-99

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5752-6

DATE 2/4/00

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS Surface MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Electronic wind speed instrument detected ND. Last recorded rain was over 72 hours ago. OVA instrument used was FOXBORO 128 last calibrated by Robert McAllister on 1/5/00. [redacted] Monitor began at 8:00 am and was completed by 9:55 am with a result of ND. Contractor followed Path 'B'.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET ___ OF ___

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6

DATE 2/8/00

INSPECTION REPORT

CLIMATE: bright, cloudy, drop, overcast, fog, rain | <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS.

CONTRACTOR(S): Robert McAllister

REMARKS: Last Rain recorded was over 72 hours ago. TOC tests were done with a Natural Gas tech model npL-204 last calibrated by J.G. Tucker and son on 12/16/99. OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 1/5/00. H_2S levels were determined with a Drager Pump and Drager tubes. All air samples were collected in 10-Liter Tedlar bags and stored in a Black plastic bag for protection from sunlight. ISS were collected with

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-8321
FAX: (818) 707-3012 (805) 373-0987

JOB NAME PENROSE

JOB No. J152-6

DATE 2/8/00

REMARKS CONTINUED:

a self contained unit with it's own power supply which collected samples at 400 cc/min.

ISS #49 was collected at 2:30 pm on 2-7-00, with (ND) OVA and H_2S (ND). ISS # 48 was collected on 2-7-00 at 2:55 pm and tested OVA (ND) and H_2S (ND) The TSI was collected at 1:15 pm on 2-7-00 and tested H_2S (40 ppm), and TOC (42%). PPS P40' was collected at 10:30 am and tested for TOC (ND) and H_2S (ND) on 2-7-00.

INSPECTOR

PRINCIPAL

JSA2075 4/15/94

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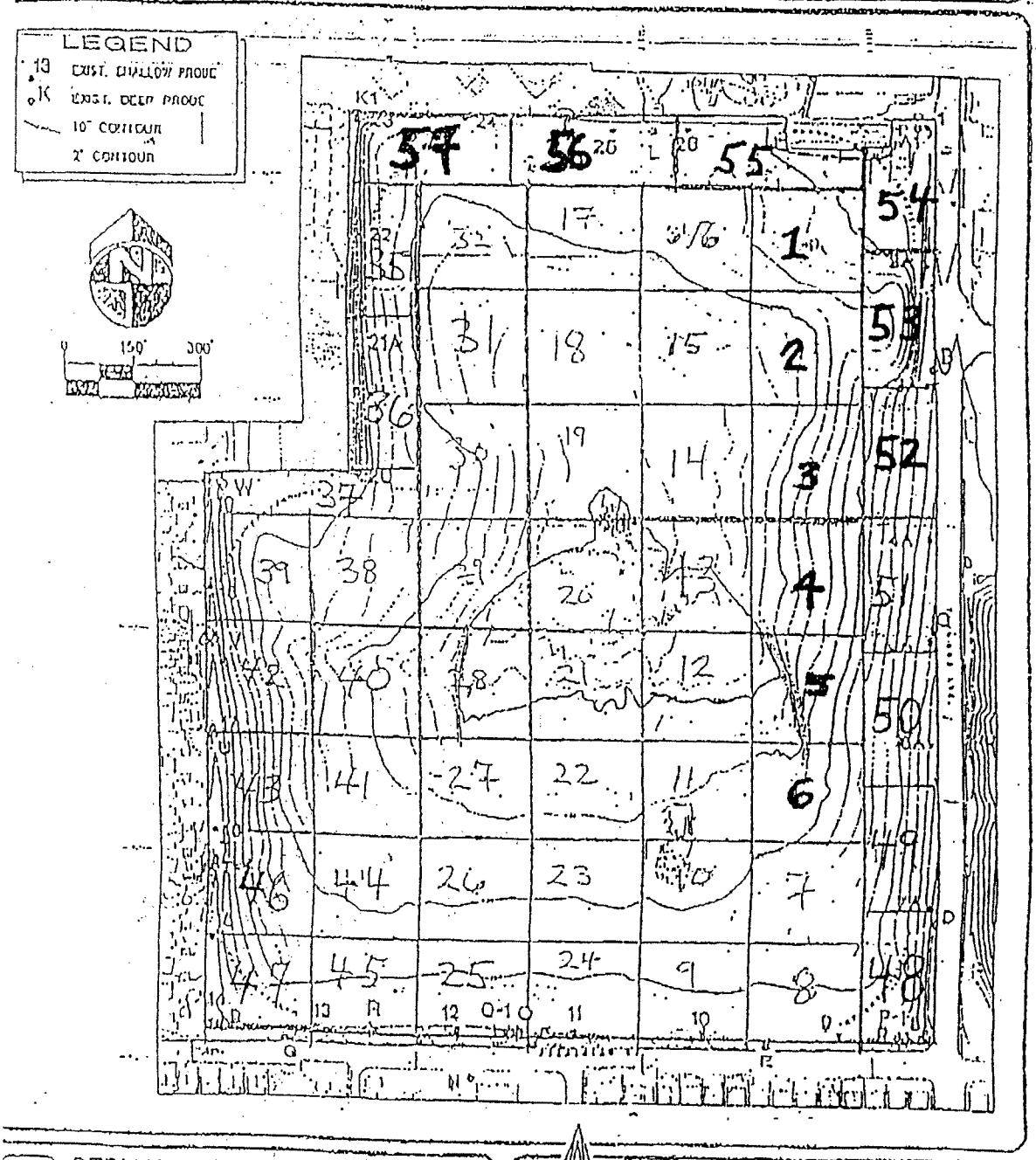
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



SEPICH ASSOCIATES, Inc.
5017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA 91362
TEL: (818) 707-3030 (800) 373-0351
FAX: (818) 707-3012 (800) 373-0367
GAS TURBINES
SANITARY
DIMENSIONAL
WASTE AIR
GAS CONTROL
MITIGATION

Los Angeles By-Products Co.
Incorporated 1923
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4173 • Fax: (213) 233-4170

SHEET ___ OF ___

TOTAL P.01

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JOB NAME: PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES

FILE (JOB#): J152-6

DATE: 2-8-00

CHAIN OF CUSTODY RECORD

SHEET 1 OF 2

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		Fixed Gas			TOC	REMARKS
J152 6	2-7 00	2:30 pm	C	1	ISS #49	✓	✓	✓						
J152 6	2-7 00	2:55 pm	C	1	ISS #48	✓	✓	✓						
J152 6	2-7 00	1:15 pm	G	1	TSI	✓	✓			✓				
J152 6	2-7 00	10:30 Am	G	1	PPS P40'	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert m allist	LA BYPRO		
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1923
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 2-7-00

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	RM.
TIME	
INSTRUMENT	
PARAMETER	

REMARKS

ISS #49 - 2:30 pm -
ISS # 48 - 2:55 pm
TSI - 1:15 pm
PPS P 40' - 10:30 am

PROBE #			PROBE #		TOC	H_2S				
1			A-1					10'		
2 A			B				R	40'		
3 A			C	GREEN-21'				80'		
4 A				YELLOW-41'				120'		
5 A				ORANGE-61'				10'		
6 A				RED - 81'			S	40'		
7 A			D					80'		
8 A			E					120'		
9			F					10'		
10			G				T	40'		
11			J-1					73'		
12			K-1				T-1	72'		
13			L	GREEN-45'				10'		
14				YELLOW-65'			U	37'		
15				ORANGE-85'				68'		
16				RED - 105'				10'		
17			N	GREEN-22'			V	40'		
18				YELLOW-45'				73'		
19				ORANGE-68'				10'		
20				RED - 90'				40'		
21 A			P	10'			W	80'		
22				40'	ND	ND		120'		
23				80'				158'		
24			P-1	120'					H_2S	TOC
25			Q	10'			TSI		40ppm	42%
26				40'						
				75'					OVA	H_2S
			Q-1	120'				ISS#49	ND	ND
				158'				ISS#48	ND	ND

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
880 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3072

REV. 2-22-99

CONFIDENTIAL

J481

Ogden Power Pacific
13181 Crossroads Parkway North, Suite 250
City of Industry, California 91746
Tel: (562) 695-2442 Fax: (562) 645-5683

JOB NAME: PENROSE LANDFILL

DATE: 2-11-00

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: QTP

TIME: 1000-1440

INSTRUMENT: BACHARACH HPK

PARAMETER: % Vol. VOC

REMARKS: Calibrated HPK w/ 2.5% CH4 calibrant: maximum setting = 2.3% volume. ND = not detected; X see remarks. Weather was cloudy & windy with temperature in the 60's.

PROBE #			
1		ND	
2 A		ND	
3 A		ND	
4 A		ND	
5 A		ND	
6 A		ND	
7 A		ND	
8 A		ND	
9		ND	
10		ND	
11		ND	
12		ND	
13		ND	
14		ND	
15		ND	
16		ND	
17		ND	
18		ND	
19		ND	
20		ND	
21 A		ND	
22		ND	
23		ND	
24		ND	
25		ND	
26		ND	

PROBE #				
A-1		ND		
B		ND		
C	GREEN-21'	ND		
C	YELLOW-41'	ND		
C	ORANGE-61'	X	missing	
C	RED - 81'	ND		
D		ND		
E		ND		
F		ND		
G		ND		
J-1		ND		
K-1		ND		
L	GREEN-45'	ND		
L	YELLOW-65'	ND		
L	ORANGE-85'	ND		
L	RED - 105'	ND		
N	GREEN-22'	ND		
N	YELLOW-45'	ND		
N	ORANGE-68'	ND		
N	RED - 90'	ND		
P	10'	ND		
P	40'	ND		
P	80'	ND		
P-1	120'	ND		
Q	10'	ND		
Q	40'	ND		
Q	75'	ND		
Q-1	120'	ND		
Q-1	158'	ND		

R	10'	ND	
R	40'	ND	
R	80'	ND	
R	120'	ND	
S	10'	ND	
S	40'	ND	
S	80'	ND	
S	120'	ND	
T	10'	ND	
T	40'	ND	
T	73'	ND	
T-1	72'	ND	
U	10'	ND	
U	37'	ND	
U	68'	ND	
V	10'	ND	
V	40'	0.9	
V	73'	ND	
W	10'	ND	
W	40'	ND	
W	80'	ND	
W	120'	ND	
W	158'	ND	
TSI			

SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3035 FAX (818)707-3012

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 2-17-00

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	RM
TIME	
INSTRUMENT	
PARAMETER	

REMARKS: 3:00 - 5:15 pm. MOIST SOIL - muddy - GAS TECH

PROBE #			PROBE #							
1	ND		A-1		ND					
2 A			B				R	10'	ND	
3 A			C	GREEN-21'				40'		
4 A				YELLOW-41'				80'		
5 A				ORANGE-61'				120'		
6 A				RED - 81'			S	10'		
7 A			D					40'		
8 A			E					80'		
9			F					120'		
10			G				T	10'		
11			J-1					40'		
12			K-1					73'		
13			L	GREEN-45'			T-1	72'		
14				YELLOW-65'			U	10'		
15				ORANGE-85'				37'		
16				RED - 105'				68'		
17			N	GREEN-22'			V	10'		
18				YELLOW-45'				40'		
19				ORANGE-68'				73'		
20				RED - 90'			W	10'		
21 A			P	10'				40'		
22				40'				80'		
23				80'				120'		
24			P-1	120'				158'		
25			Q	10'			TSI			
26				40'						
				75'						
			Q-1	120'						
				158'						

SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 630 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3[illegible]2

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6

DATE 3/2/00

INSPECTION REPORT

CLIMATE: bright / clear / fog / (cloudy) / overcast / rain

<32° F / 33°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F

(still) / breeze / wind

dry / (moderate) / humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: Last rainfall was over 72 hours ago. The electronic wind speed indicator detected ND. The TOC tests were done with a Natural Gas Tech model npb-204 last calibrated by J.G. Tucker and Son 12-16-99. OVA instrument used was FOXBORO 128 last calibrated by Robert McAllister on 1/5/00. H_2S tests were done with Drager Pump and Drager tubes. ISS were collected in a self contained unit with its own power supply, which collected samples at 400 cc/min.

☐ REINSPECTION REQUIRED

Robt mcAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8887

JOB NAME PENROSE

JOB No. 3752-6

DATE 3/2/00

REMARKS CONTINUED:

All air samples were collected in 10-Liter Tedlar bags and placed in a Black plastic Bag for protection from sunlight.

ISS # 42 was collected at 8:50 am and tested OVA (ND) and H_2S (ND). ISS # 39 was tested OVA (ND) and H_2S (ND). PPS V 40' was collected at 9:55 am and tested TOC (2%) and H_2S (1 ppm). TSI was collected at 10:45 am and tested TOC (42%) and H_2S (75 ppm).

INSPECTOR

PRINCIPAL

SA2073 4/15/94

SHEET__OF__

CONFIDENTIAL

JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — PERIMETER PROBE SAMPLES, PLANT INLET SAMPLE	J152-6	3-2-00

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH4					Fixed Gas	REMARKS	
J152-6	3-2-00	8:50 AM	C	1	ISS # 42	✓	✓	✓							
J152-6	3-2-00	9:30 AM	C	1	ISS # 39	✓	✓	✓							
J152-6	3-2-00	9:55 AM	G	1	PPS V 40	✓	✓							1ppm	2%
J152-6	3-2-00	10:45 AM	G	1	TSI	✓	✓						✓	75ppm	42'

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	3-2-00	
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				

CONFIDENTIAL

J481

Ogden Power Pacific
13181 Crossroads Parkway North, Suite 250
City of Industry, California 91746
Tel: (562) 695-2442 Fax: (562) 645-5683

JOB NAME: PENROSE LANDFILL

DATE: F 3-10-00

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: RTF

TIME: 1100-1415

INSTRUMENT: BACHARACH HPK

PARAMETER: Volume % VOC

REMARKS

ND = not detected; X see remarks
All results were ND
(V) = vacuum (probably "tight" sediments, possibly clogged.

PROBE #		
1	ND	
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		ANTS
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		

PROBE #							
	A-1	ND		R	10'	ND	
	B	X	could'nt find		40'		
C	GREEN-21'	ND	(V)		80'		
C	YELLOW-41'	ND			120'		
C	ORANGE-61'	X	missing	S	10'		
C	RED - 81'	ND	(V)		40'		
	D	ND			80'		
	E	ND			120'		
	F	ND		T	10'		
	G	ND			40'		
	J-1	ND			73'		(V)
	K-1	ND		T-1	72'		
some Ants L	GREEN-45'	X	needs lengthening	U	10'		
L	YELLOW-65'	ND			37'		
L	ORANGE-85'				68'		
L	RED - 105'				10'		
N	GREEN-22'			V	40'		
N	YELLOW-45'				73'		
N	ORANGE-68'				10'		
N	RED - 90'				40'		
P	10'			W	80'		
P	40'				120'		
P	80'				158'		
P-1	120'						
Q	10'			TSI			
Q	40'						
Q	75'						
Q-1	120'						
Q-1	158'						

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3512

REV. 2-19-99

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file

SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST. MOORPARK, CA 93021
TEL (818) 707-3036 (805) 552-0000 FAX (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE

JOB No. 3752-6

DATE 3/11/00

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°–55°, 56°–70°, 71°–85°, 86°–100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: FOXBORO 128 - EQUIPEMENT FAILURE

CANCELLED MONITOR

SENT INSTRUMENT FOR

REPAIR

☒ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	3-16-00

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
J152-6	3-16-00	8:45 AM	C	1	ISS # 39	NO	✓	✓						

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	3-16-00	1155
RECEIVED BY:	[illegible]	Calscience	3/16/00	1155
RELINQUISHED BY:	[illegible]	Calscience	3/16/00	1455
RECEIVED BY:	[illegible]	CAL	3/16/00	1455
RELINQUISHED BY:				
RECEIVED BY:				

TOTAL P.08

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J152-6

Los Angeles By-Products Co.
Incorporated 1923
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 3-31-00

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS SUPER WINDY
TIME	NATURAL GAS TEC
INSTRUMENT	Began at 2:00pm – finish 4:15pm.
PARAMETER	

PROBE #			PROBE #						
1	ND		A-1		ND				
2 A			B				R	10'	ND
3 A			C	GREEN-21'				40'	
4 A				YELLOW-41'				80'	
5 A				ORANGE-61'				120'	
6 A				RED - 81'			S	10'	
7 A			D					40'	
8 A			E					80'	
9			F					120'	
10			G				T	10'	
11			J-1					40'	
12			K-1					73'	
13			L	GREEN-45'			T-1	72'	
14				YELLOW-65'	.2%		U	10'	
15				ORANGE-85'	ND			37'	
16				RED - 105'				68'	
17			N	GREEN-22'			V	10'	
18				YELLOW-45'				40'	
19				ORANGE-68'				73'	10%
20				RED - 90'			W	10'	ND
21 A			P	10'				40'	
22				40'				80'	
23				80'				120'	
24			P-1	120'				158'	
25			Q	10'			TSI		
26				40'					
				75'					
			Q-1	120'					
				158'					

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

REV. 2-19-99

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EXHIBIT D

Laboratory Analytical Results - First Quarter, 2000

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	02/07/00
444 Irving Drive, Suite 101	Date Received:	02/08/00
Burbank, CA 91504	Date Analyzed:	02/08/00
	Work Order No.:	00-02-0244
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill / J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #49		
Methane	2	1
TGNMO	4	1
Sample Number: ISS #48		
Methane	2	1
TGNMO	2	1
Sample Number: TSI		
Oxygen plus Argon	1.2*	0.1
Nitrogen	21.3*	0.1
Methane	41.9*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	35.5*	0.1
TGNMO	994	1
Sample Number: PPS P40'		
Methane	ND	1
TGNMO	4	1

* Result reported in percent (%) by volume.

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Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	NA NA 02/08/00
Attn: Robert McAllister RE: Penrose Landfill / J152-6	Work Order No.: Method: Page 2 of 2	00-02-0244 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1

* Result reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1

L.A. By Products/Sepich Associates, Inc. Work Order No.: 00-02-0244
Page 1 of 1 Date Analyzed: 02/08/00

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Oxygen	99	100	80 - 120	1	0 - 20
Nitrogen	100	100	80 - 120	0	0 - 20
Carbon Dioxide	98	98	80 - 120	0	0 - 20
Methane	103	104	80 - 120	1	0 - 20
Carbon Monoxide	95	93	80 - 120	2	0 - 20
TGNMO (as Methane)	98	100	80 - 120	2	0 - 20

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 02/08/00
Work Order No: 00-02-0244
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS #49	00-02-0244-1	02/07/00	Air	N/A	02/09/00	K000209A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	5.9	0.5	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	0.88	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	78	5	10	D	ppb (v/v) high
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	2.7	0.5	1		ppb (v/v)
Chloroform	20	0.50	1		ppb (v/v)	Xylenes (total)	1.8	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	2.2	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.1	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	2.9	0.5	1		ppb (v/v)						

ISS #48	00-02-0244-2	02/07/00	Air	N/A	02/09/00	K000209A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	0.57	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	4.3	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	0.91	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	6.9	0.5	1		ppb (v/v)						

TSI	00-02-0244-3	02/07/00	Air	N/A	02/09/00	K000209A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	310	93	185		ppb (v/v)	1,2-Dibromoethane	ND	93	185		ppb (v/v)
1,1-Dichloroethene	ND	93	185		ppb (v/v)	Trichloroethene	140	93	185		ppb (v/v)
Methylene Chloride	ND	370	185		ppb (v/v)	Tetrachloroethene	150	93	185		ppb (v/v)
1,1-Dichloroethane	ND	93	185		ppb (v/v)	Chlorobenzene	840	93	185		ppb (v/v)
Chloroform	ND	93	185		ppb (v/v)	Xylenes (total)	12000	280	185		ppb (v/v)
1,2-Dichloroethane	ND	93	185		ppb (v/v)	Benzyl Chloride	ND	93	185		ppb (v/v)
1,1,1-Trichloroethane	ND	93	185		ppb (v/v)	1,3-Dichlorobenzene	ND	93	185		ppb (v/v)
Benzene	1400	93	185		ppb (v/v)	1,4-Dichlorobenzene	650	93	185		ppb (v/v)
Carbon Tetrachloride	ND	93	185		ppb (v/v)	1,2-Dichlorobenzene	190	93	185		ppb (v/v)
Toluene	7600	930	1850	D	ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	02/08/00
Work Order No:	00-02-0244
Preparation:	N/A
Method:	EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
PPS P40'	00-02-0244-4	02/07/00	Air	N/A	02/09/00	K000209A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	1.4	0.5	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	0.97	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	90	5	10	D	ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	1.8	0.5	1		ppb (v/v)
Chloroform	23	0.50	1		ppb (v/v)	Xylenes (total)	2.5	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	2.6	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	0.59	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	3.5	0.5	1		ppb (v/v)						

Method Blank	096-01-021-908	N/A	Air	N/A	02/09/00	K000209A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received:	02/08/00
Work Order No:	00-02-0244
Preparation:	N/A
Method:	EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-01-021-908	Air	GC/MS K	N/A	02/09/00	K000209A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	108	110	60-140	1	0-30	
1,2-Dichloroethane	121	119	60-140	1	0-30	
Benzene	94	93	60-140	2	0-30	
Carbon Tetrachloride	99	95	60-140	4	0-30	
1,2-Dibromoethane	99	98	60-140	1	0-30	
Trichloroethene	99	97	60-140	2	0-30	
Tetrachloroethene	102	101	60-140	1	0-30	
1,4-Dichlorobenzene	108	106	60-140	2	0-30	
1,2-Dichlorobenzene	111	110	60-140	1	0-30	

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GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 00-02-0244

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
ND	Not detected at indicated reporting limit.

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(0244)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	2-8-00

CHAIN OF CUSTODY RECORD

SHEET 1 OF 2

SAMPLE TAKEN BY:

Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		Field Gas			TOC	REMARKS
J152-6	2-7-00	2:30 PM	C	1	ISS #49	✓	✓	✓						
J152-6	2-7-00	2:55 PM	C	1	ISS #48	✓	✓	✓						
J152-6	2-7-00	1:15 PM	G	1	TSI	✓	✓			✓				
J152-6	2-7-00	10:30 AM	G	1	PPS P40'	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	2-8-00	1359
RECEIVED BY:	[illegible]	Calscience	2-8-00	1359
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:	[illegible]	Calscience	2-8-00	1500
RECEIVED BY:	[illegible]	Calscience	2-8-00	1500

TOTAL P.10

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	03/02/00
444 Irving Drive, Suite 101	Date Received:	03/02/00
Burbank, CA 91504	Date Analyzed:	03/03/00
	Work Order No.:	00-03-0080
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill / J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #42		
Methane	2	1
TGNMO	2	1
Sample Number: ISS #39		
Methane	62	1
TGNMO	2	1
Sample Number: PPS V40		
Methane	2.3*	0.1
TGNMO	32	1
Sample Number: TSI		
Oxygen plus Argon	0.7*	0.1
Nitrogen	21.6*	0.1
Methane	42.1*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	35.5*	0.1
TGNMO	1060	1

* Result reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	NA NA 03/03/00
Attn: Robert McAllister RE: Penrose Landfill / J152-6	Work Order No.: Method: Page 2 of 2	00-03-0080 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1

* Result reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1

L.A. By Products/Sepich Associates, Inc. | Work Order No.: 00-03-0080

Page 1 of 1 | Date Analyzed: 03/03/00

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Oxygen	99	100	80 - 120	1	0 - 20
Nitrogen	98	98	80 - 120	0	0 - 20
Carbon Dioxide	96	96	80 - 120	0	0 - 20
Methane	109	109	80 - 120	0	0 - 20
Carbon Monoxide	103	102	80 - 120	1	0 - 20
TGNMO (as Methane)	93	94	80 - 120	1	0 - 20

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	03/02/00
Work Order No:	00-03-0080
Preparation:	N/A
Method:	EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS #42	00-03-0080-1	03/02/00	Air	N/A	03/03/00	K000303A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	5.9	2.0	1		ppb (v/v)	Tetrachloroethene	0.52	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	0.93	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	2.9	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.1	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	0.92	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	4.0	0.5	1		ppb (v/v)						

ISS #39	00-03-0080-2	03/02/00	Air	N/A	03/03/00	K000303A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	0.66	0.50	1		ppb (v/v)
Methylene Chloride	3.1	2.0	1		ppb (v/v)	Tetrachloroethene	1.1	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	2.6	0.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	2.6	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	0.98	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	1.3	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	3.5	0.5	1		ppb (v/v)						

PPS V40	00-03-0080-3	03/02/00	Air	N/A	03/03/00	K000303A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	1.0	2		ppb (v/v)	1,2-Dibromoethane	ND	1.0	2		ppb (v/v)
1,1-Dichloroethene	ND	1.0	2		ppb (v/v)	Trichloroethene	7.0	1.0	2		ppb (v/v)
Methylene Chloride	ND	4.0	2		ppb (v/v)	Tetrachloroethene	23	1	2		ppb (v/v)
1,1-Dichloroethane	8.3	1.0	2		ppb (v/v)	Chlorobenzene	28	1	2		ppb (v/v)
Chloroform	ND	1.0	2		ppb (v/v)	Xylenes (total)	3.2	3.0	2		ppb (v/v)
1,2-Dichloroethane	ND	1.0	2		ppb (v/v)	Benzyl Chloride	ND	1.0	2		ppb (v/v)
1,1,1-Trichloroethane	ND	1.0	2		ppb (v/v)	1,3-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Benzene	6.1	1.0	2		ppb (v/v)	1,4-Dichlorobenzene	2.0	1.0	2		ppb (v/v)
Carbon Tetrachloride	ND	1.0	2		ppb (v/v)	1,2-Dichlorobenzene	ND	1.0	2		ppb (v/v)
Toluene	6.8	1.0	2		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	03/02/00
Work Order No:	00-03-0080
Preparation:	N/A
Method:	EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	00-03-0080-4	03/02/00	Air	N/A	03/03/00	K000303A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	270	100	200		ppb (v/v)	1,2-Dibromoethane	ND	100	200		ppb (v/v)
1,1-Dichloroethene	ND	100	200		ppb (v/v)	Trichloroethene	140	100	200		ppb (v/v)
Methylene Chloride	ND	400	200		ppb (v/v)	Tetrachloroethene	140	100	200		ppb (v/v)
1,1-Dichloroethane	ND	100	200		ppb (v/v)	Chlorobenzene	1300	100	200		ppb (v/v)
Chloroform	ND	100	200		ppb (v/v)	Xylenes (total)	18000	300	200		ppb (v/v)
1,2-Dichloroethane	ND	100	200		ppb (v/v)	Benzyl Chloride	ND	100	200		ppb (v/v)
1,1,1-Trichloroethane	ND	100	200		ppb (v/v)	1,3-Dichlorobenzene	ND	100	200		ppb (v/v)
Benzene	1900	100	200		ppb (v/v)	1,4-Dichlorobenzene	1200	100	200		ppb (v/v)
Carbon Tetrachloride	ND	100	200		ppb (v/v)	1,2-Dichlorobenzene	330	100	200		ppb (v/v)
Toluene	10000	1000	2000	D	ppb (v/v)						

Method Blank	095-01-021-918	N/A	Air	N/A	03/03/00	K000303A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received:	03/02/00
Work Order No:	00-03-0080
Preparation:	N/A
Method:	EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-918	Air	GC/MS K	N/A	03/03/00	K000303A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	97	96	60-140	0	0-30	
1,2-Dichloroethane	87	87	60-140	0	0-30	
Benzene	92	91	60-140	1	0-30	
Carbon Tetrachloride	83	82	60-140	1	0-30	
1,2-Dibromoethane	93	94	60-140	0	0-30	
Trichloroethene	87	87	60-140	0	0-30	
Tetrachloroethene	84	85	60-140	1	0-30	
1,4-Dichlorobenzene	83	85	60-140	2	0-30	
1,2-Dichlorobenzene	94	94	60-140	0	0-30	

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0080

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	3-2-00

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH4					Fixed Gas	REMARKS
J152-6	3-2-00	8:50 AM	C	1	ISS # 42	✓	✓	✓						
J152-6	3-2-00	9:30 AM	C	1	ISS # 39	✓	✓	✓						
J152-6	3-2-00	9:55 AM	G	1	PPS V 40	✓	✓							
J152-6	3-2-00	10:45 AM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	3-2-00	1359
RECEIVED BY:	[illegible]	CEL	3-2-00	1359
RELINQUISHED BY:	[illegible]	CEL	3-2-00	1605
RECEIVED BY:	[illegible]	CEL	3/2/00	1605
RELINQUISHED BY:				
RECEIVED BY:				

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Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	03/16/00 03/16/00 03/16/00
Attn: Robert McAllister RE: Penrose Landfill / J152-6	Work Order No.: Method: Page 1 of 1	00-03-0567 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) .

Analyte	Concentration	Reporting Limit
Sample Number: ISS #39		
Methane	2	1
TGNMO	2	1
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1

L.A. By Products/Sepich Associates, Inc. Work Order No.: 00-03-0567
Page 1 of 1 Date Analyzed: 03/16/00

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Methane	107	106	80 - 120	1	0 - 20
TGNMO (as Methane)	91	91	80 - 120	0	0 - 20

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 03/16/00
Work Order No: 00-03-0567
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS #39	00-03-0567-1	03/16/00	Air	N/A	03/17/00	K000317A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	3.0	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.3	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	4.5	0.5	1		ppb (v/v)						

Method Blank	095-01-021-930	N/A	Air	N/A	03/17/00	K000317A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	1,2-Dibromoethane	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Toluene	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit . DF - Dilution Factor , Qual - Qualifiers

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 03/16/00
Work Order No: 00-03-0567
Preparation: N/A
Method: EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-930	Air	GC/MS K	N/A	03/17/00	K000317A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	84	86	60-140	2	0-30	
1,2-Dichloroethane	82	81	60-140	1	0-30	
Benzene	89	90	60-140	1	0-30	
Carbon Tetrachloride	90	89	60-140	1	0-30	
1,2-Dibromoethane	90	90	60-140	0	0-30	
Trichloroethene	92	96	60-140	4	0-30	
Tetrachloroethene	80	81	60-140	2	0-30	
1,4-Dichlorobenzene	80	87	60-140	8	0-30	
1,2-Dichlorobenzene	86	86	60-140	1	0-30	

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(Job 7)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	3-16-00

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	CORE GROUP	ANALYSES REQUIRED: NMHC	CH4					Fixed Gas	REMARKS
J152-6	3-16-00	8:45 AM	C	1	ISS # 39	No	✓	✓						

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	3-16-00	1155
RECEIVED BY:	[illegible]	Calscience	3/16/00	1155
RELINQUISHED BY:	[illegible]	Calscience	3/16/00	1455
RECEIVED BY:	[illegible]	CAL	3/16/00	1455
RELINQUISHED BY:				
RECEIVED BY:				

TOTAL P.08

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EXHIBIT E

Documentation for Annual Requirements

First Quarter, 2000

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PENROSE LANDFILL - Landfill Gas Generation

YEAR	Estimated Generation (MMBTU)	Collection Efficiency	Collected (MMBTU)
ACTUAL:			
1988	533,722	85.00%	453,664
1989	507,036	85.78%	434,912
1990	481,684	83.78%	403,572
1991	457,600	78.25%	358,055
1992	434,720	83.57%	363,291
1993	412,984	94.40%	389,842
1994	395,045	85.00%	335,788
1995	404,104	85.00%	343,488
1996	407,191	85.00%	346,112
1997	377,488	85.00%	320,865
1998	368,555	85.00%	313,272
1999	292,025	85.00%	248,221
PROJECTED:			
2000	277,424	85.00%	235,810
2001	263,553	85.00%	224,020
2002	250,375	85.00%	212,819
2003	237,856	85.00%	202,178
2004	225,963	85.00%	192,069
2005	214,665	85.00%	182,465
2006	203,932	85.00%	173,342
2007	193,735	85.00%	164,675

NOTES:

(1) The amount of landfill gas collected during the years 1988 through 1999 represents the actual amount of (Penrose) landfill gas burned at the Penrose electrical generation facility.

(2) The estimate of landfill gas being generated is based on an assumed 85% collection efficiency and an average decline in generation of 5% each year.

(3) The 5% decline in landfill gas generation is based on Ogden Power Pacific's experience with other landfills and the average annual gas generation decline, based on historical collection rates at Penrose.

(4) The "Projected" portion of this table was computer generated by Methane Specialists based on Ogden Power Pacific's projection method. The "Actual" portion of this table are values from Ogden Power Pacific.

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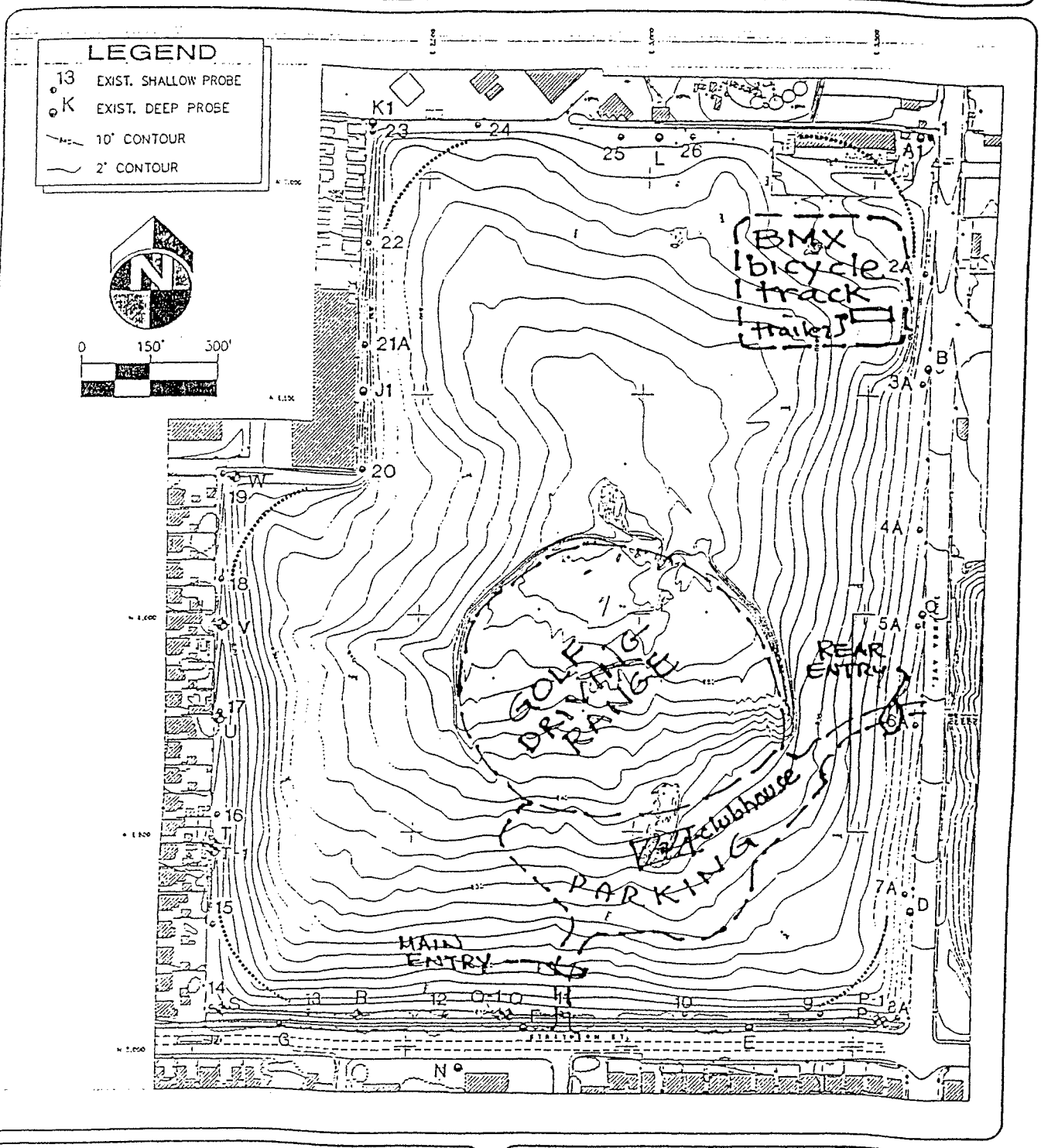
PENROSE LANDFILL MONITORING PROBE LOCATIONS



SEPICH ASSOCIATES, Inc.
680 WALNUT ST.
MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001
CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS

Ogden Power Pacific
13181 Crossroads Parkway North, Suite 250
City of Industry, California 91746
Tel: (562) 695-2442 Fax: (562) 645-5623

SHEET ___ OF ___

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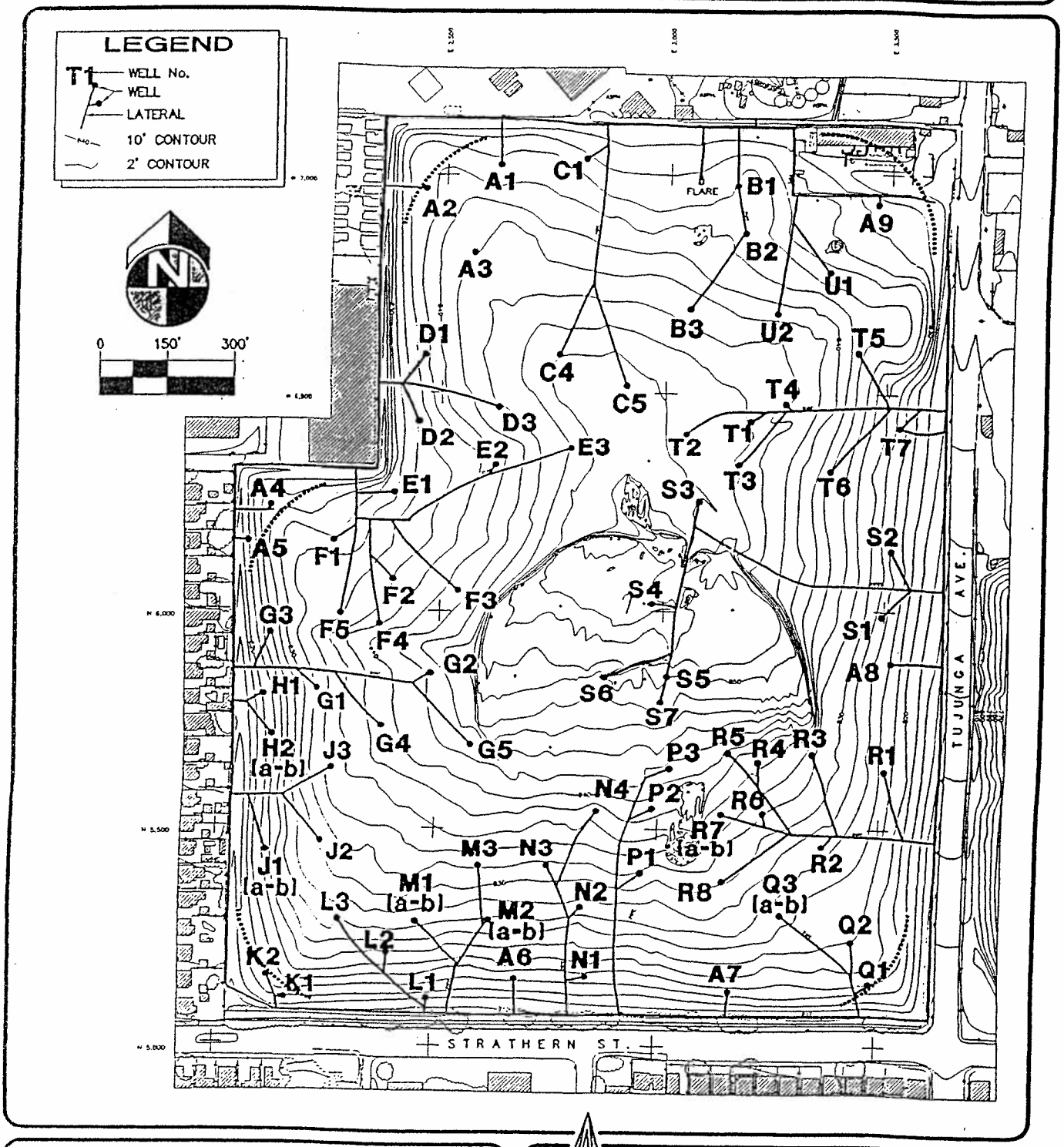
J152-6

PENROSE LANDFILL
GAS COLLECTION SYSTEM



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WASTE AND
GAS CONTROL
SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

SHEET ___ OF ___

3-12-93 WELL-SYS

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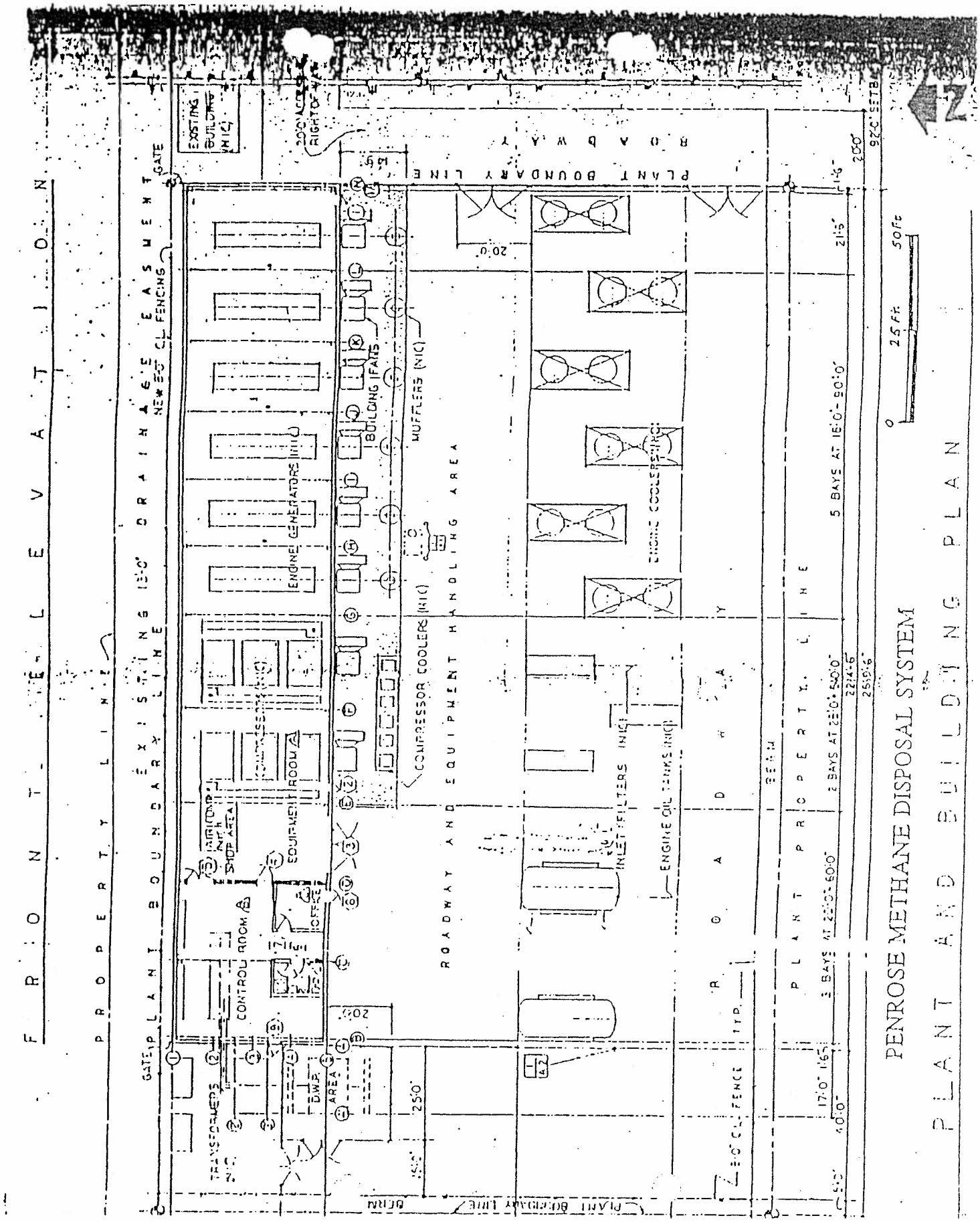
PENROSE METHANE DISPOSAL SYSTEM
PLANT AND BUILDING PLAN
FRONT ELEVATION
PROPERTY LINE
PLANT BOUNDARY LINE
EXISTING BUILDING (NIC)
GATE
EASEMENT
FENCING
ENGINE GENERATORS (NIC)
BUILDING (FAN)
MUFFLERS (NIC)
COMPRESSOR COOLERS (NIC)
ROADWAY AND EQUIPMENT HANDLING AREA
ENGINE COOLERS (NIC)
5 BAYS AT 16'-0" = 80'-0"
2 BAYS AT 22'-0" = 44'-0"
3 BAYS AT 22'-0" = 66'-0"
INLET FILTERS (NIC)
ENGINE OIL TANKS (NIC)
ROADWAY
BERM
PLANT PROPERTY LINE
CONTROL ROOM
EQUIPMENT ROOM
OFFICE
SHOP AREA
TRANSFORMERS (NIC)
D.W.P. AREA
PLANT BOUNDARY LINE
BERM
25 FT.
50 FT.

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SEPICH ASSOCIATES, Inc.
and METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

TEL (818) 707-3036
(805) 552-0000
FAX (818) 707-3012
(805) 552-0001

October 25, 1999

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Third Quarter, 1999
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the twenty fourth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period July through June 1999. In compliance with the SCAQMD Rule 1150. permit, this quarterly report contains information required on an annual bases (see Section A.6 of this report).

Monitoring and sampling for this report was performed on July 8, 15, and 16, August 5, 13, 27, and 31, and September 10, 16, 17, and 29, 1999.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989, the Guidelines were incorporated into the amended Rule 1150.1 on April 10, 1998) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products (LABP) was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue (also 11501 Strathern St.), Sun Valley, California.

Rule 1150.1 requires perimeter probe monitoring (PPM) (will become SRBPM for Subsurface Refuse Boundary Sampling Probes monitoring) and sampling (PPS), integrated surface sampling (ISS), instantaneous surface monitoring (ISM), ambient air sampling, and plant inlet (TSI, for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Ambient air sampling requirements are not included in the routine quarterly monitoring for Penrose. Per Rule 1150.1 simultaneous source tests at the inlet and outlet of the gas disposal system are done at Penrose on an annual basis, and reported in the next quarterly report after data is available.

On April 10, 1998 SCAQMD approved an amended version of Rule 1150.1: Control of Gaseous Emissions from Municipal Solid Waste (MSW) Landfill. The amended Rule required that owners of all MSW landfills within the district submit a statement of intent to comply with the amended Rule within 90 days of the amendment date. On July 10, 1998, Sepich Associates/Methane Specialists prepared and submitted a revised compliance plan to SCAQMD for the Los Angeles By-Products Company. Per § (k) of the amended Rule the submittal for Penrose LF contains exemptions subject to SCAQMD approval. The previous

compliance plan was in effect during the Third Quarter of 1999. SCAQMD issued a Draft Compliance Plan on August 19, 1999, stating that, "This draft Compliance Plan is being provided for review until closing September 3, 1999" and that, "The new alternatives will take affect within 60 days after the date of the approved Compliance Plan". Future quarterly reports will reflect requirements, organization, and terminology of the new Compliance Plan.

A.1 *Subsurface Refuse Boundary Probe Monitoring (Attachment A, 1.2)*

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

1.2.1: If the TOC concentrations *measured with the FID does not exceed 5% by volume in any of the probes, collect one bag sample from one probe with the highest concentration, or*

1.2.2: If the TOC concentration *measured with the FID exceeds 5% by volume, collect one bag sample per probe from the probes with the highest concentrations above 5% by volume, from at least five probes.*

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.
2. Types and weights of waste materials deposited in the reporting year.
3. Total amount of waste materials deposited to date.
4. Contour map showing updated landfill boundary.
5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.
6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, July through September 1999, field monitoring was conducted on July 13, 21, and 26, August 5, 12, and 28, and September 1, 2, 8, 28, and 29, 1999. Additional perimeter probe monitoring results collected by David Thompson from the City of Los Angeles, Environmental Affairs Department (LEA), are included in Exhibit C and Table III. Samples were collected for laboratory analysis on July 26, and September 1, 2, and 28, 1999 (see Exhibit C for field documentation and Exhibit D for laboratory results).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on July 8, August 5, and September 16, 1999 was conducted by Sepich Associates/Methane Specialists personnel using an MSA Gasport Gas Tester (July 13), a Bacharach Gas Pointer II (August 5), or a Bacharach HPK Combustible Gas Detector (September 8). Perimeter probe monitoring on July 16, August 27, and September 17, 1999 was conducted by LABP personnel using a GasTech Natural Gas Indicator Model NPL-204. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California.

Perimeter probe sampling was conducted at Probes T (40') and U (68') on July 15, at Probe R (40') on August 31, and at Probe V (40') on September 29, 1999. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on July 15, August 31, and September 29, 1999. On July 15, Areas 1 and 2 were sampled (see Integrated Surface Sampling Map in Exhibits A and C); on August 31, Areas 41 and 42 were sampled; and on September 29, Areas 31 and 32 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. All ISS field monitoring results for the Second Quarter TOC and H_2S concentrations were non-detect. Laboratory results are summarized in Table IV.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path A was traversed on July 8, and September 10, 1999. Path B was traversed on August 13, 1999. In July, August, and September no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Ogden Power Pacific, Inc. electrical generation plant inlet pipeline on July 15, August 31, and September 29, 1999. TOC was monitored with a GasTech Natural Gas Meter, Model NPL-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were last collected on August 22, 1997 and results of inlet analyses were reported in the third and fourth quarter 1997 reports.

B.6 Reporting Requirements

This is the twenty fourth in a series of quarterly reports and the second quarterly report for Penrose Landfill for 1999. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Sepich Associates/Methane Specialists and LABP. The early (to mid-) month data is usually used to select the monthly probe sampling stations and the (mid to) late-month monitoring is used to fulfill any required follow-up probe monitoring. If gas is detected by agency inspectors their findings may influence the selection of probe sampling stations. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are attached in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

Perimeter probe monitoring on July 8, 1999 had two detections greater than 5% of volume. Mitigation measures were implemented and on July 15, 1999, both probes were sampled. Laboratory analytical results are presented in Table I below and in Exhibit D.

Table I - July 1999
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBES SAMPLED ON July 15, 1999

Probe No.	Depth (ft)	TOC 7/8/99 (% Vol)	TOC 7/15/99 (% Vol)	Lab Results 7/15/99 (% Vol)	Follow up TOC 7/16/99 (% Vol)
T	40	12	1.6	0.6	ND
U	68	10	ND	0.0002	ND

Note: Laboratory samples were collected 7/15/99. Field values are volume percent TOC.

ND = None detected

Perimeter probe monitoring on August 5, 1999 recorded no detections greater than 5% of volume. Probe R (40') was sampled on August 31, 1999. Laboratory analytical results are presented in Table II below and in Exhibit D.

Table II - August 1999
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON August 31, 1999

Probe No.	Depth (ft)	TOC 8/5/99 (% Vol)	TOC 8/27/99 (% Vol)	TOC 8/31/99 (% Vol)	Lab Result 8/31/99 (% Vol)	Follow up TOC 9/16/99 (% Vol)
R	40	ND	ND	ND	ND	ND

Note: Laboratory samples were collected 8/31/99. Laboratory results are volume percent of methane. Field values are volume percent TOC.

Perimeter probe monitoring on September 16, 1999 recorded no detections greater than 5% of volume. The maximum detection recorded was 4.5% at Probe V (40'). On September 29, 1999, Probe V (40') was sampled (see lab results in Table III).

Table III - September 1999
SUMMARY OF FIELD TOC AND METHANE CONCENTRATIONS
FOR PERIMETER PROBE SAMPLED ON September 29, 1999

Probe No.	Depth (ft)	TOC 9/16/99 (% Vol)	TOC 9/17/99 (% Vol)	TOC 9/29/99 (% Vol)	Lab Results 9/29/99 (% Vol)	Follow-up TOC 10/12/99 (% Vol)
V	40	4.5	ND	ND	2	1.1

Note: Laboratory samples were collected 9/29/99. Laboratory results are volume percent of methane. Field values are volume percent TOC.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-14. Table IV summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - Third QUARTER 1999
SUMMARY of ANALYTICAL RESULTS from INTEGRATED SURFACE SAMPLES

DATE and AREA		CH_4 (PPMV)	TGNMO (PPMV)
7/15/99	AREA # 1	3	6
7/15/99	AREA # 2	3	4
8/31/99	AREA # 41	2	5
8/31/99	AREA # 42	2	3
9/29/99	AREA # 31	2	9
9/29/99	AREA # 32	2	4

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Third Quarter of 1999.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 31.4% methane on July 15, 42.1% methane on August 31, and 41.2% methane on September 29, 1999. *On July 15, the TOC reading from the Tedlar bag was 42 % of volume. The low lab result indicates a leaky bag.* Dreager tube analytical results were 80 ppm H_2S on July 15, 65 ppm H_2S on August 31, and 80 ppm H_2S on September 29, 1999. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling was last conducted on August 22, 1997. The analytical results from the samples collected at the plant inlet and generator exhaust, for source testing in 1997, were included in Exhibit E of the Third and Fourth Quarter 1997 Reports.

C.6 Report Requirements

This report constitutes the 1999, Third Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

Annual requirements 8.2 were included in the First Quarter 1999 report.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

Detections of high TOC concentrations from perimeter probes (T, U, and V) during this reporting period triggered mitigation. Mitigation methods, including selective gas extraction from the areas of excessive landfill gas (LFG) migration, were enacted and follow-up monitoring of the same probes was performed in compliance with SCAQMD Rule 1150.1.

Major compliance endeavors enacted by Los Angeles By-Products Company and Ogden Power Pacific in the past several years include:

- Mitigation well (8 wells) program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter 1995 (including changing the gas collection system); probes 2 through 8 were replaced at this time; and
- Replacement probe (A1, K1, and J1) installation in Fourth Quarter, 1995.
- Closure plan construction at clubhouse and BMX track locations in 1998 and 1999.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
exp. 6-30-2000
CIVIL

John Sepich, P.E.
President

J152rept.624/atf

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Mr. Joe Maturino

California Integrated Waste Management Board

- Mr. Peter Janicke

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Third Quarter, 1999
- EXHIBIT D: Laboratory Analytical Results - Third Quarter, 1999

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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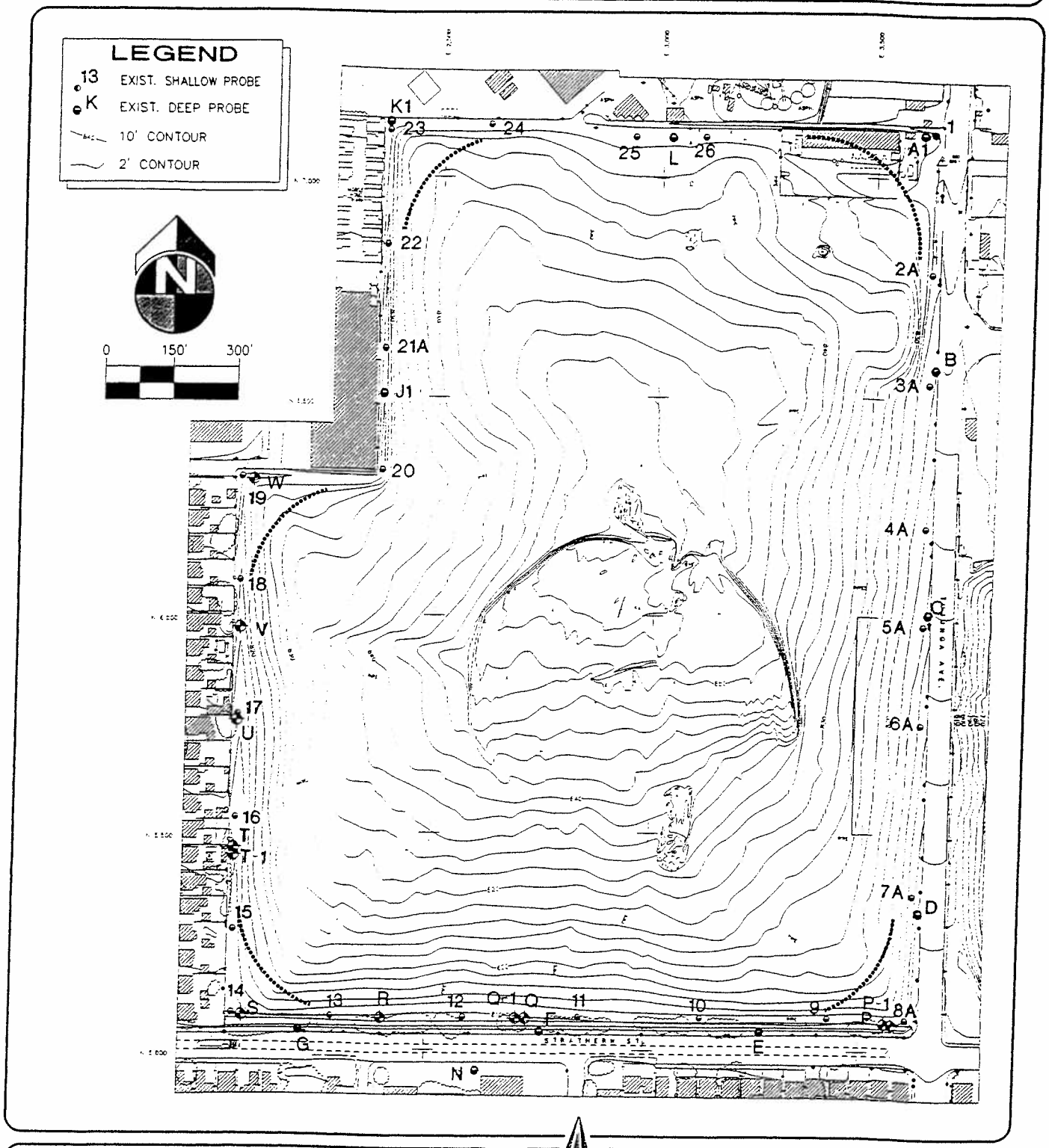
PENROSE LANDFILL
MONITORING PROBE LOCATIONS



SEPICH ASSOCIATES, Inc.
CIVIL ENGINEERS
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WASTE AND
GAS CONTROL
SPECIALISTS
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Tel: (818) 845-4489 Fax: (818) 845-1011

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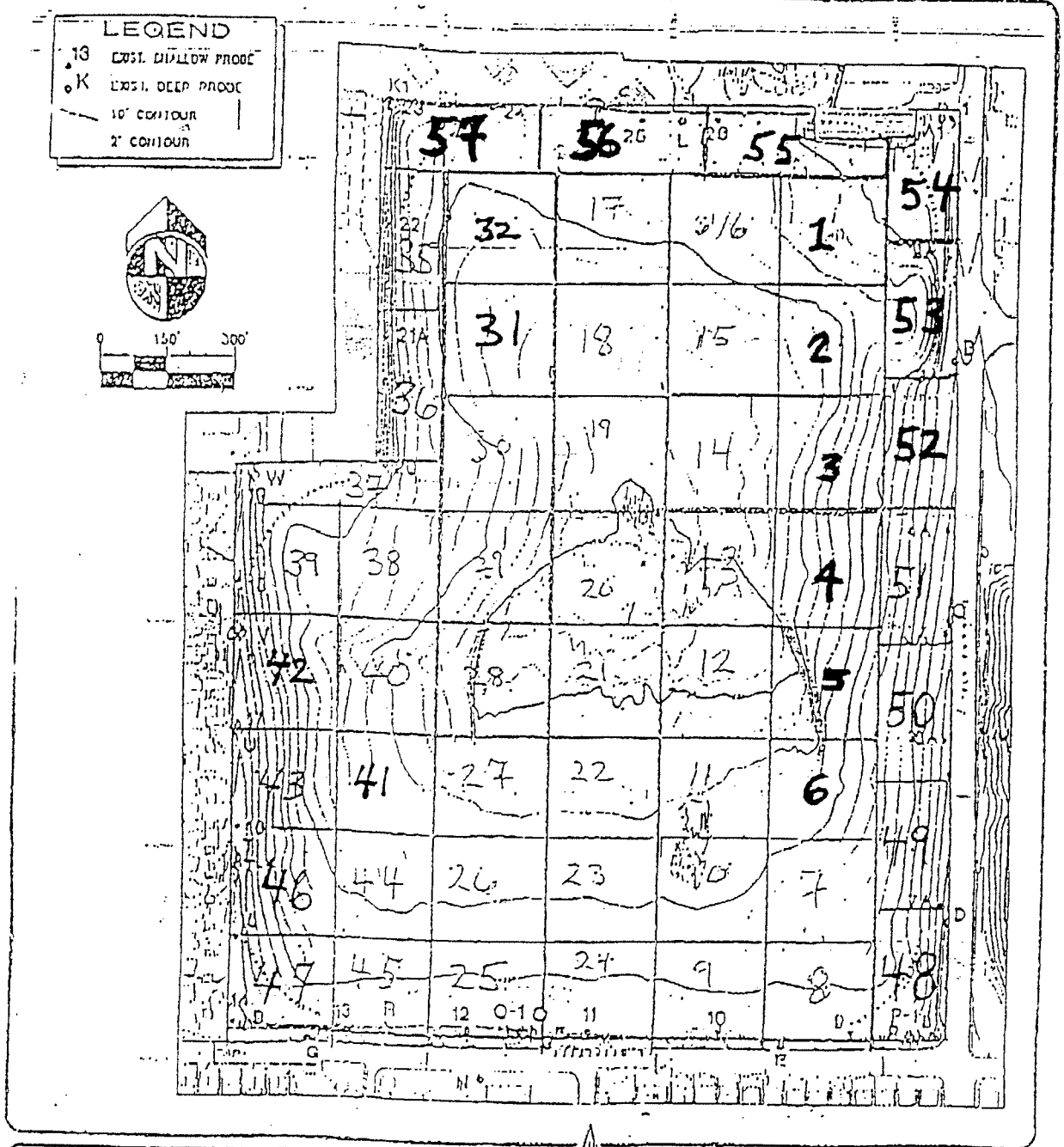
8188451011 L.A. BY-PRODUCTS CO.

FROM SEPICH-METHANE SPECIALIST TO

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



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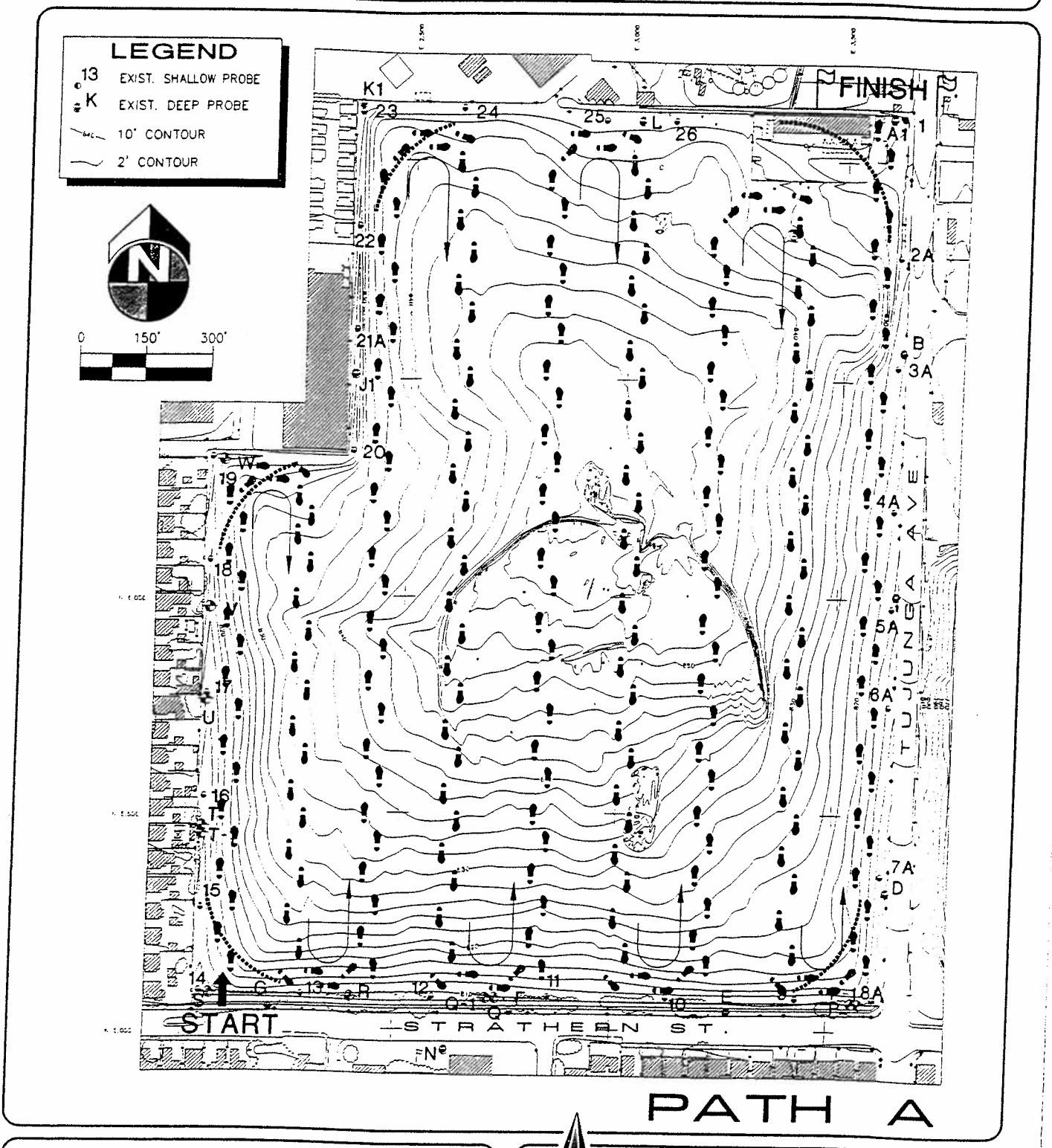
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

SEPICH ASSOCIATES, Inc.
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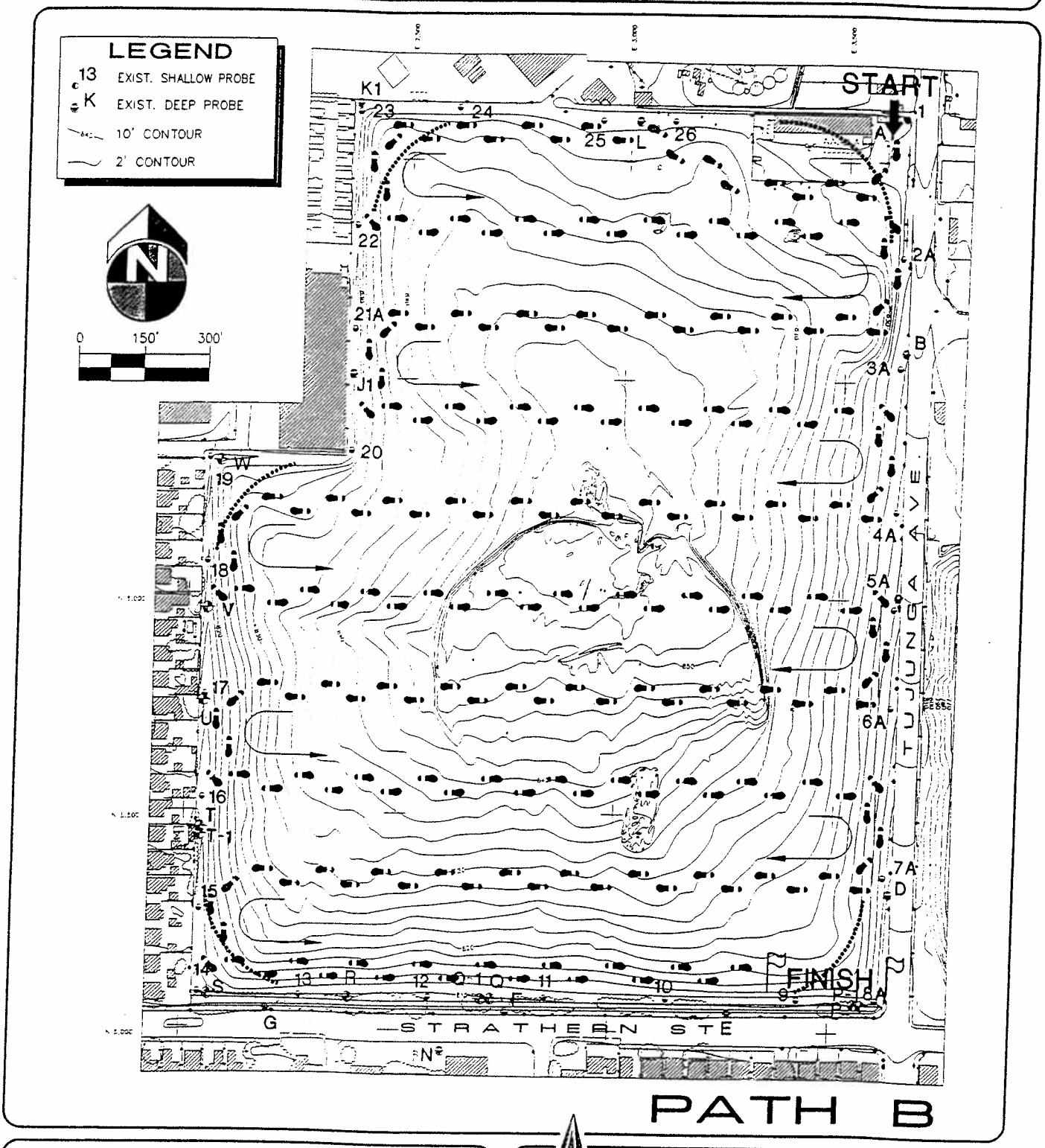
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



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Tel: (818) 845-4489 Fax: (818) 846-1011

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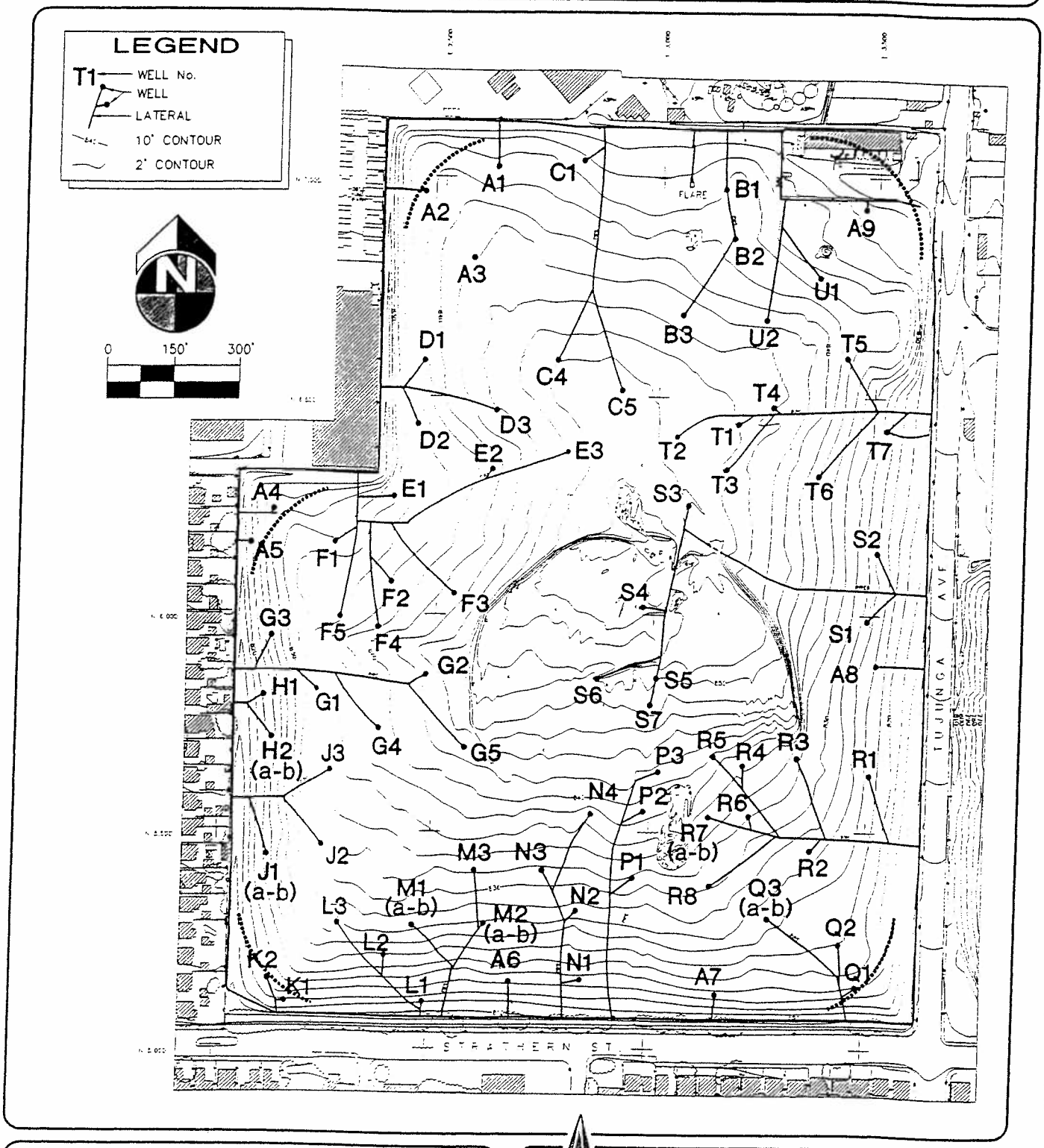
PENROSE LANDFILL
GAS COLLECTION SYSTEM



SEPICH ASSOCIATES, Inc.
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EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Third Quarter, 1999

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Ogden Power Pacific
13-81 Crossroads Parkway North, Suite 250
City of Industry, California 91745
Tel. (562) 695-2442 Fax (562) 695-3663

JOB NAME: PENROSE LANDFILL

DATE: 7/8/99

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: ATF

TIME: 1340 – 1645

INSTRUMENT: BACHARACH HPK

PARAMETER: % Vol. VOC

REMARKS: HPK readings in % Volume VOC (without carbon filter). HPK checked against 2.5% CH4 calibrant prior to monitoring. ND = not detected TR = trace ≤0.05% vol.

PROBE #		PROBE #					
1	ND	A-1	ND		R	10'	ND
2 A	ND	B	ND			40'	ND
3 A	ND	C GREEN-21'	ND			80'	ND
4 A	ND	C YELLOW-41'	ND			120'	ND
5 A	ND	C ORANGE-61'	X	probe missing	S	10'	ND
6 A	ND	C RED - 81'	ND			40'	ND
7 A	ND	D	ND			80'	ND
8 A	ND	E	ND			120'	ND
9	ND	F	ND		T	10'	ND
10	ND	G	ND			40'	12
11	ND	J-1	ND			73'	ND
12	ND	K-1	ND		T-1	72'	ND
13	ND	L GREEN-45'	ND		U	10'	ND
14	ND	L YELLOW-65'	ND			37'	2.9
15	ND	L ORANGE-85'	ND			68'	10
16	ND	L RED - 105'	ND		V	10'	ND
17	ND	N GREEN-22'	ND			40'	ND
18	ND	N YELLOW-45'	ND			73'	ND
19	ND	N ORANGE-68'	ND		W	10'	TR
20	ND	N RED - 90'	ND			40'	0.3
21 A	ND	P 10'	TR			80'	0.2
22	ND	P 40'	ND			120'	ND
23	ND	P 80'	ND			158'	ND
24	ND	P-1 120'	X	closed			
25	ND	Q 10'	ND		TSI		
26	ND	Q 40'	ND				
		Q 75'	ND				
		Q-1 120'	ND				
		Q-1 158'	ND				

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

REV 2-19-99

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SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE LANDFILL

JOB NO. J152-6
DATE 7/8/99

METHANE MONITORING INSPECTION REPORT

CLIMATE: BRIGHT / CLOUDY / CLEAR / OVERCAST / FOG / RAIN

<32° F / 71-85° / 33°-55° / 86°-100° F / 56°-70° / >100° F

STILL / BREEZY / WIND

DRY / MODERATE / HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☒ INSTANTANEOUS SURFACE MONITORING (ISM) PATH 'A'
- ☐ PERIMETER PROBE MONITORING (PPM)
- ☐ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED _____
- ☐ INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- ☐ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS:

Electronic wind Speed indicator detected ND. Last recorded rainfall was over 72 hours ago. OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 6/16/99. Monitor began at 8:30am and concluded at 10:10am with a result of ND. Contractor followed PATH 'A'.

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

Robert McAllister
INSPECTOR

PRINCIPAL

G:\Job\J152-6\MonInsp.dwg July 23 1999 2:58pm By:eric

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SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 7/15/99

METHANE MONITORING INSPECTION REPORT

CLIMATE: BRIGHT / CLOUDY / CLEAR / OVERCAST / FOG / RAIN

<32° F / 71°-85° / 33°-55° / 86°-100° F / 56°-70° / >100° F

STILL / BREEZY / WIND

DRY / MODERATE / HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☐ PERIMETER PROBE MONITORING (PPM)
- ☒ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED T 40' & U 68'
- ☒ INTEGRATED SURFACE SAMPLING (ISS); GRIDS #1 & #2
- ☒ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: Weather was Hot with a hazy sky. The electronic wind speed indicator showed a 2.0 to 3.9 mph South wind. Last recorded rainfall was over 72 hours ago. The OVA tests were done with a FOXBORO 128 last calibrated by Robert McAllister on 6/16/99. All air samples were ~~dom~~ collected in 10-liter Tedler bags and placed into a black bag for protection from Sunlight. H_2S testes were done with Drager pump and Drager tubes. TOC tests were done with a Natural Gas indicator apl-204 last calibrated by J.G. Tucker and Son on 8/7/98. ISS were collected with a portable self-contained unit with it's own internal power supply, which collected samples at 400 cc/min.

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

Robert McAllister
INSPECTOR

PRINCIPAL

G:\Job\J152-6\Moninsp.dwg July 23 1999 2:58pm By:eric

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 7/15/99

REMARKS CONTINUED:

ISS#1 was collected at 9:30 am and tested for OVA (ND) and H_2S (ND). ISS #2 was collected at 9:48 am and tested for OVA (ND) and H_2S (ND). PPS T 40' was collected at 10:15 am and tested for TOC (1.6%) and H_2S (ND). PPS U 68' was collected at 10:45 am and tested for TOC (ND) and H_2S (ND). TSI was collected at 11:11 am and tested for TOC (42%) and H_2S (80 ppm).

INSPECTOR

PRINCIPAL

ISA0075 4/15/94

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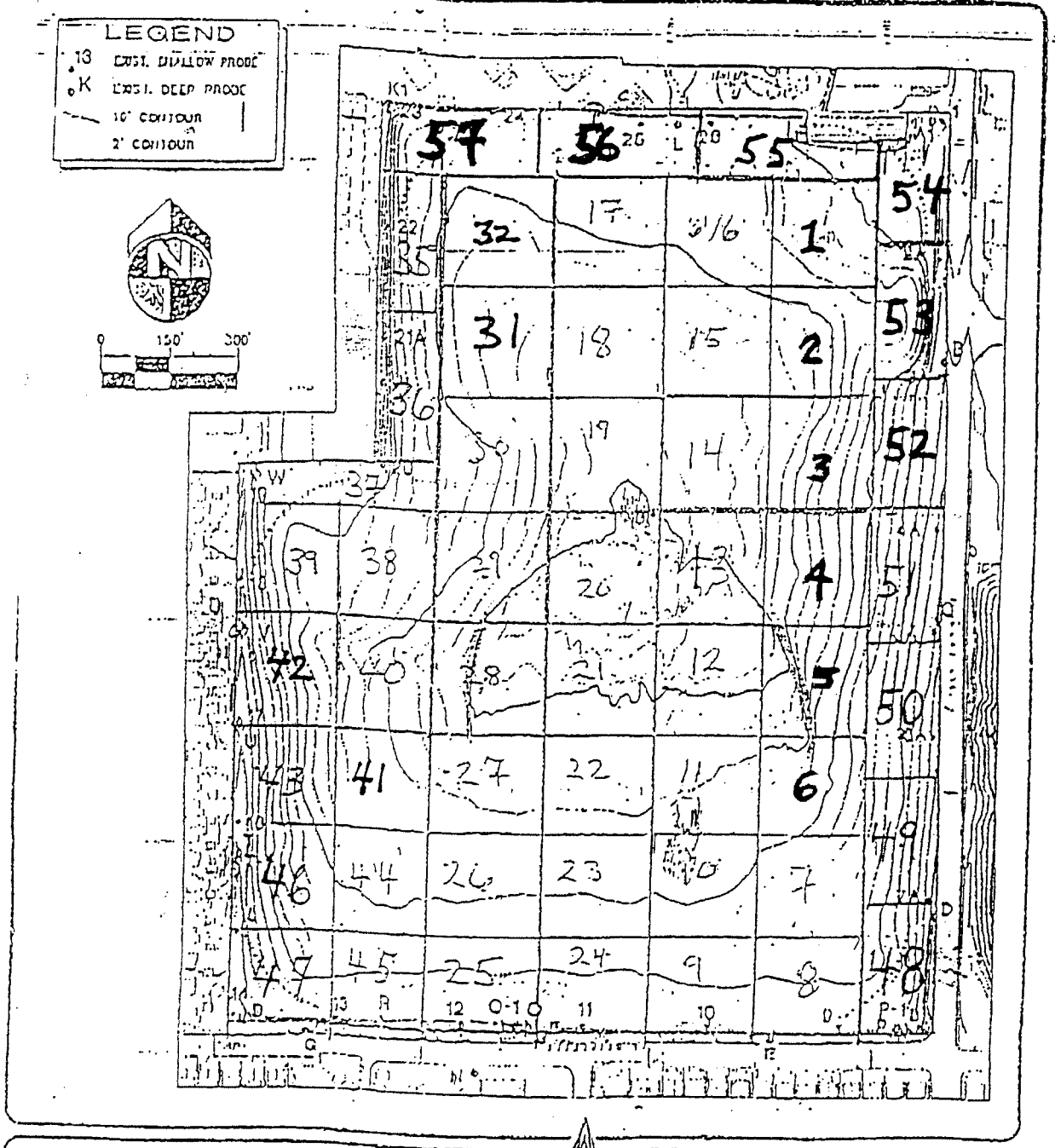
B188451011 L.A. BY-PRODUCTS CO.

FROM SEPICH/METHANE SPECIALIST TO

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



SEPICH ASSOCIATES, Inc.
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TEL: (818) 707-3050 (800) 333-[illegible]
FAX: (818) 707-3012 (800) 272-[illegible]

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Incorporated 1973
1210 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-[illegible] Fax: (213) 233-[illegible]

SHEET ___ OF ___

TOTAL P.01

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE	7-15-99
JOB No.	J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS – Done today because of vacation next two WEEKS
TIME	HOT / Haze Sky – South wind
INSTRUMENT	ISS #1 – 9:30 AM 2.0 – 3.9 mph.
	ISS #2 – 9:48 AM PPS U 68' – 10:45 AM
PARAMETER	PPS T 46' – 10:15 AM TSI 11:11 AM

PROBE #		PROBE #					H2S	TOC
1		A-1			R	10'		
2 A		B				40'		
3 A		C GREEN-21'				80'		
4 A		YELLOW-41'				120'		
5 A		ORANGE-61'			S	10'		
6 A		RED - 81'				40'		
7 A		D				80'		
8 A		E				120'		
9		F			T	10'		
10		G				40'	ND	1.6%
11		J-1				73'		
12		K-1			T-1	72'		
13		L GREEN-45'			U	10'		
14		YELLOW-65'				37'		
15		ORANGE-85'				68'	ND	ND
16		RED - 105'			V	10'		
17		N GREEN-22'				40'		
18		YELLOW-45'				73'		
19		ORANGE-68'			W	10'		
20		RED - 90'				40'		
21 A		P 10'				80'		
22		40'				120'		
23		80'				158'		
24		P-1 120'					H2S	TOC
25		Q 10'			TSI		80 ppm	42%
26		40'						
		75'					H2S	OVA
		Q-1 120'				ISS #1	ND	ND
		158'				ISS #2	ND	ND

SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 620 WALNUT STREET MOORPARK, C 93021 TEL (818)707-3036 FAX (818)707-3012

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Los Angeles By-Products Co.
Incorporated 1928
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE	7-16-99
JOB No.	J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS BOB McAllister
TIME	
INSTRUMENT TOC	1:00 - 3:10 pm
PARAMETER	Hot

PROBE #	
1	ND
2 A	
3 A	
4 A	
5 A	
6 A	
7 A	
8 A	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21 A	
22	
23	
24	
25	
26	

PROBE #		
C	A-1	ND
	B	
	GREEN-21'	PLUG
	YELLOW-41'	ND
	ORANGE-61'	
	RED - 81'	
	D	
	E	
	F	
	G	
	J-1	
	K-1	
L	GREEN-45'	
	YELLOW-65'	ND
	ORANGE-85'	PLUG
	RED - 105'	ND
N	GREEN-22'	1.2%
	YELLOW-45'	ND
	ORANGE-68'	ND
	RED - 90'	ND
P	10'	ND
	40'	
	80'	
P-1	120'	ND
Q	10'	.4%
	40'	ND
	75'	
Q-1	120'	
	158'	ND

PROBE #		
R	10'	ND
	40'	
	80'	
	120'	
S	10'	ND
	40'	
	80'	
	120'	
T	10'	
	40'	
	73'	
T-1	72'	ND
U	10'	ND
	37'	1.8%
	68'	ND
V	10'	3.1%
	40'	ND
	73'	ND
W	10'	
	40'	
	80'	
	120'	
	158'	ND
TSI		

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIAL

0451

Ogden Power Pacific
[illegible] Crossroads Parkway North, Suite 250
City of Industry, California 91746
Tel (562) 695-2442 Fax (562) 645-5223

JOB NAME: PENROSE LANDFILL

DATE: 8-5-99

JOB No.:

GAS CONCENTRATIONS

INITIALS	HGA
TIME	14:00
INSTRUMENT	HPK
PARAMETER	% VOL

REMARKS

(W) = WATER

PROBE #								
1	ND	A-1	ND		R	10'	ND	
2 A	ND	B	ND			40'	ND	
3 A	ND	C	GREEN-21'	ND	VACUUM		80'	ND	
4 A	ND		YELLOW-41'	ND	VACUUM		120'	ND	
5 A	ND		ORANGE-61'	LOST		S	10'	ND	
6 A	ND		RED - 81'	ND	VACUUM		40'	ND	
7 A	ND	D	0.2	SPIKE			80'	ND	
8 A	ND	E	ND				120'	ND	
9	ND	F	ND		T	10'	ND	
10	ND	G	ND			40'	ND	
11	ND	J-1	ND			73'	ND	
12	ND	K-1	ND		T-1	72'	ND	
13	ND	L	GREEN-45'	ND		U	10'	ND	
14	ND		YELLOW-65'	ND			37'	1.5	NOT SOSTANED
15	ND		ORANGE-85'	ND	VACUUM		68'	0.8	SPIKE
16	ND		RED - 105'	ND		V	10'	ND	
17	ND	N	GREEN-22'	ND			40'	0.6	SPIKE
18	ND		YELLOW-45'	ND			73'	0.15	
19	ND		ORANGE-68'	ND		W	10'	ND	
20	ND		RED - 90'	ND			40'	0.15	
21 A	ND	P	10'	ND			80'	ND	
22	ND		40'	ND			120'	ND	
23	ND		80'	0.1			158'	ND	
24	ND	P-1	120'	(W)					
25	ND	Q	10'	ND		TSI			
26	ND		40'	ND					
			75'	ND					
		Q-1	120'	ND					
			158'	ND					

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

REV 2-19-99

CONFIDENTIAL

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE LANDFILL

JOB NO. J152-6
DATE 8/13/99

METHANE MONITORING INSPECTION REPORT

CLIMATE: BRIGHT / CLOUDY / CLEAR / OVERCAST / FOG / RAIN

<32° F / 71°–85° / 33°–55° / 86°–100° F / 56°–70° / >100° F

STILL / BREEZY / WIND

DRY / MODERATE / HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- [x] INSTANTANEOUS SURFACE MONITORING (ISM) PATH 'B'
- [ ] PERIMETER PROBE MONITORING (PPM)
- [ ] PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED _____
- [ ] INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- [ ] TREATMENT SYSTEM INLET (TSI) SAMPLING
- [ ] SIMULTANEOUS INLET/EXHAUST SAMPLING
- [ ] OTHER _____

REMARKS: Electronic wind speed indicated ND. OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 6/16/99. monitor began at 7:45 am and was completed at 9:30 am with a result of ND. Last recorded rain was over 72 hours ago.

[ ] FOLLOW UP INSPECTION(S) REQUIRED. _____

Robert McAllister
INSPECTOR

PRINCIPAL

G:\Job\J152-6\MonInsp.dwg July 23 1999 2:58pm By:eric

000727

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 8-27-99

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	
TIME	
INSTRUMENT	NPL-204
PARAMETER	

REMARKS: Bob McAllister

1-3:15 pm

PROBE #		PROBE #					
1	ND	A-1	ND		R	10'	ND
2 A	ND	B	ND			40'	ND
3 A	ND	C GREEN-21'	PLUG			80'	ND
4 A	"	C YELLOW-41'	1%			120'	ND
5 A	ND	C ORANGE-61'	ND		S	10'	ND
6 A	ND	C RED - 81'				40'	ND
7 A	ND	D	ND			80'	ND
8 A	ND	E	ND			120'	ND
9	ND	F	ND		T	10'	PLUG
10	ND	G	ND			40'	ND
11	ND	J-1	ND			73'	ND
12	ND	K-1	ND		T-1	72'	ND
13	ND	L GREEN-45'	ND		U	10'	ND
14	ND	L YELLOW-65'	ND			37'	ND
15	ND	L ORANGE-85'	PLUG			68'	1.5%
16	ND	L RED - 105'	ND		V	10'	ND
17	ND	N GREEN-22'	ND			40'	ND
18	ND	N YELLOW-45'	ND			73'	ND
19	ND	N ORANGE-68'	ND		W	10'	ND
20	ND	N RED - 90'	ND			40'	ND
21 A	ND	P 10'	ND			80'	ND
22	ND	P 40'	ND			120'	ND
23	ND	P 80'	ND			158'E	ND
24	ND	P-1 120'	ND				
25	ND	Q 10'	ND		TSI		
26	ND	Q 40'	ND				
		Q 75'	ND				
		Q-1 120'	ND				
		Q-1 158'	ND				

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

REV. 2-22-99

000723

CONFIDENTIAL

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 8/31/99

METHANE MONITORING INSPECTION REPORT

CLIMATE:

BRIGHT	CLOUDY	<32° F	71°–85°	STILL
CLEAR	OVERCAST	33°–55°	86°–100° F	BREEZY
FOG	RAIN	56°–70°	>100° F	WIND

DRY	
MODERATE	HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☐ PERIMETER PROBE MONITORING (PPM)
- ✱ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED R 40'
- ● INTEGRATED SURFACE SAMPLING (ISS); GRIDS #41 & #42
- ● TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: The electronic wind speed indicator detected ND. Last recorded rainfall was over 72 hours ago. All air samples were collected in 10-liter Tedlar bags and placed into a Black bag for protection from Sunlight. H_2S tests were done with Drager Pump and Drager Tubes. TOC test was done with a Natural Gas Indicator npk-204 last calibrated by J.G. Tucker and Son 8/7/98. OVA tests were done with FoxBoro 128 last calibrated by Robert McAllister on 6/16/99. ISS were collected in a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min. Weather was cool with thick clouds and No wind.

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

Robert McAllister
INSPECTOR

PRINCIPAL

G:\Job\J152-6\Moninsp.dwg July 23 1999 2:58pm By:eric

000720

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 8/31/99

REMARKS CONTINUED:

ISS #41 was collected at 10:00 Am and tested for OVA (ND) and H_2S (ND). ISS #42 was collected at 10:25 am and tested for OVA (ND) and H_2S (ND). PPS R 40' was collected at 11:15 am and tested for TOC (ND) and H_2S (ND). The TSI was collected at 11:50 am and tested for H_2S (65 ppm) and TOC (44%).

Robert Malott
INSPECTOR

PRINCIPAL

ISA0075 4/15/94

CONFIDENTIA

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 8/31/99

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS CLOUDY OVERCAST
TIME	ISS # 41 – 10:00 AM NOT HOT!
INSTRUMENT	ISS #42 – 10:25 AM
	PPS – R 40' – 11:15 AM
PARAMETER	TSI – 11:50 AM.

PROBE #		PROBE #					TOC	H_2S
1		A-1			R	10'		
2 A		B				40'	ND	ND
3 A		C GREEN-21'				80'		
4 A		YELLOW-41'				120'		
5 A		ORANGE-61'			S	10'		
6 A		RED - 81'				40'		
7 A		D				80'		
8 A		E				120'		
9		F			T	10'		
10		G				40'		
11		J-1				73'		
12		K-1			T-1	72'		
13		L GREEN-45'			U	10'		
14		YELLOW-65'				37'		
15		ORANGE-85'				68'		
16		RED - 105'			V	10'		
17		N GREEN-22'				40'		
18		YELLOW-45'				73'		
19		ORANGE-68'			W	10'		
20		RED - 90'				40'		
21 A		P 10'				80'		
22		40'				120'		
23		80'				158'		
24		P-1 120'						
25		Q 10'			TSI		44%	65ppm
26		40'						
		75'					DNA	H_2S
		Q-1 120'				ISS#41	ND	ND
		158'				ISS #42	ND	ND

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, C. 3021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIAL

SEPICH ASSOCIATES
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE LANDFILL

JOB NO. J152-6
DATE 9/10/99

METHANE MONITORING INSPECTION REPORT

CLIMATE: BRIGHT / CLOUDY / OVERCAST / FOG / RAIN

<32° F / 85° / 33°–55° / 86°–100° F / 56°–70° / >100° F

STILL / BREEZY / WIND

DRY / MODERATE / HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- [x] INSTANTANEOUS SURFACE MONITORING (ISM) PATH 'A'
- [ ] PERIMETER PROBE MONITORING (PPM)
- [ ] PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED _____
- [ ] INTEGRATED SURFACE SAMPLING (ISS); GRIDS _____
- [ ] TREATMENT SYSTEM INLET (TSI) SAMPLING
- [ ] SIMULTANEOUS INLET/EXHAUST SAMPLING
- [ ] OTHER _____

REMARKS: last recorded rainfall was over 72 hours ago. OVA instrument was the FOXBORO 128 last calibrated by Robert McAllister on 6/16/99. Monitor began at 7:15 am and was completed at 9:30 am. electronic wind speed indicator detected ND.

[ ] FOLLOW UP INSPECTION(S) REQUIRED. _____

Robert McAllister
INSPECTOR

PRINCIPAL

G:\Job\J152-6\MonInsp.dwg July 23 1999 2:58pm By:eric

CONFIDENTIAL

1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4178 Fax: (213) 233-4170

PENROSE LANDFILL

JOB No. J-152-6

GAS CONCENTRATIONS

INITIALS	HBA
TIME	9-16-99 15:00-19:00
INSTRUMENT	HPK
PARAMETER	% Vol.

REMARKS

PROBE #		
1	ND	
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9	ND	
10	0.15	
11	ND	
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26	ND	

PROBE #			
A-1		ND	
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED - 81'		
D		ND	
E		2.4	
F		ND	
G			
J-1			
K-1			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED - 105'		
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED - 90'		
P	10'		
	40'		
	80'		
P-1	120'		
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'	ND	

R	10'	ND
	40'	
	80'	
	120'	
S	10'	
	40'	
	80'	
	120'	
T	10'	
	40'	
	73'	
T-1	72'	
U	10'	ND
	37'	>0.5
	68'	>1.8
V	10'	ND
	40'	4.5
	73'	3.0
W	10'	ND
	40'	ND
	80'	ND
	120'	ND
	158'	ND
TSI		

SEPHOI ASSOCIATES, Inc. METHANE SPECIALISTS 620 WALNUT STREET MONROVIA, CA. 91024 TEL (818)797-3039 FAX (818)797-3039

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 9-17-99

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS: BOB M'Allister
TIME: 9-17-99	BRIAN M'ALLISTER
INSTRUMENT	
PARAMETER	12:45 - 3:00 pm

PROBE #		
1		
2 A		
3 A	ND	
4 A	ND	
5 A	ND	
6 A	ND	
7 A	ND	
8 A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	ND	
21 A	ND	
22	ND	
23	ND	
24	ND	
25	ND	
26	ND	

PROBE #			
	A-1	ND	
	B	ND	
C	GREEN-21'	~~ND~~	PLUG
C	YELLOW-41'	ND	
C	ORANGE-61'	ND	
C	RED - 81'	ND	
	D	ND	
	E		
	F		
	G		
	J-1		
	K-1	ND	
L	GREEN-45'	ND	
L	YELLOW-65'	ND	
L	ORANGE-85'	~~ND~~	PLUG
L	RED - 105'	ND	
N	GREEN-22'	ND	
N	YELLOW-45'	ND	
N	ORANGE-68'	ND	
N	RED - 90'	ND	
P	10'	ND	
P	40'	ND	
P	80'	ND	
P-1	120'	ND	
Q	10'	ND	
Q	40'	ND	
Q	75'	ND	
Q-1	120'	ND	
Q-1	158'	ND	

R	10'	ND
R	40'	ND
R	80'	ND
R	120'	ND
S	10'	ND
S	40'	ND
S	80'	ND
S	120'	ND
T	10'	ND
T	40'	ND
T	73'	ND
T-1	72'	ND
U	10'	ND
U	37'	1%
U	68'	ND
V	10'	3.5%
V	40'	~~[illegible]~~ ND
V	73'	3.5%
W	10'	ND
W	40'	ND
W	80'	ND
W	120'	ND
W	158'	ND
TSI		

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIAL

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680 WALNUT ST, MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 9/27/99

METHANE MONITORING INSPECTION REPORT

CLIMATE:

BRIGHT	CLOUDY	<32° F	71°–85°	STILL	DRY
CLEAR	OVERCAST	33°–55°	86°–100° F	BREEZY	MODERATE
FOG	RAIN	56°–70°	>100° F	WIND	HUMID

WIND VELOCITY: _____

MONITORING AND SAMPLING ACTIVITY

- ☐ INSTANTANEOUS SURFACE MONITORING (ISM) PATH _____
- ☐ PERIMETER PROBE MONITORING (PPM)
- ☒ PERIMETER PROBE SAMPLING (PPS); PROBES SAMPLED V40'
- ☒ INTEGRATED SURFACE SAMPLING (ISS); GRIDS #32 & #33
- ☒ TREATMENT SYSTEM INLET (TSI) SAMPLING
- ☐ SIMULTANEOUS INLET/EXHAUST SAMPLING
- ☐ OTHER _____

REMARKS: TODAY was hot and the electronic wind speed indicator detected ND. Last recorded rainfall was over 72 hours ago. All samples were collected in 10-liter Tedlar bags and placed into a black trash bag for protection from sunlight. H_2S tests were done with Drager tubes and a Drager Pump. TOC tests were done with a Natural Gas Indicator npl-204 last calibrated by J.G. Tucker and Son on 8/7/98. OVA tests were done with the FOXBORO 128 last calibrated by Robert McAllister on 6/16/99. ISS were collected in a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min.

☐ FOLLOW UP INSPECTION(S) REQUIRED. _____

Robert McAllister
SPECIALIST

PRINCIPAL

G:\Job\J152-6\MonInsp.dwg July 23 1999 2:58pm By:eric

000735

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 9/29/99

REMARKS CONTINUED:

ISS# 32 was collected at 10:00 AM and tested for OVA (ND) and H_2S (ND). ISS# 31 was collected at 10:30 am and tested OVA (ND) and H_2S (ND). PPS V 40' was collected at 11:10 am and tested TOC (ND) and H_2S (ND). TSI was collected at 11:00 am and tested TOC (43%) and H_2S (80 ppm).

INSPECTOR

PRINCIPAL

JSA0075 4/15/94

SHEET__OF__

000736

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 9/29/99

Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
ISS#31	ND	ND
ISS #32	ND	ND

REMARKS: HOT!! NO WIND
CLEAR SKIES
ISS#32 - 10:00 AM
ISS#31 - 10:30 AM
PPS V 40' - 11:10 AM
TSI 11:00 AM

PROBE #					
	B				
C	GREEN-21'				
C	YELLOW-41'				
C	ORANGE-61'				
C	RED-81'				
	D				
	E				
	F				
	G				
	H				
I	GREEN-17'				
I	YELLOW-37'				
I	ORANGE-57'				
I	RED-77'				
	J				
	K				
L	GREEN-45'				
L	YELLOW-65'				
L	ORANGE-85'				
L	RED-105'				
	M				
N	GREEN-22'				
N	YELLOW-45'				
N	ORANGE-68'				
N	RED-90'				
P	10'				
P	40'				
P	80'				
P-1	120'				

PROBE #		TOC	H_2S
Q	10'		
Q	40'		
Q	75'		
Q-1	120'		
Q-1	158'		
R	10'		
R	40'		
R	80'		
R	120'		
S	10'		
S	40'		
S	80'		
S	120'		
T	10'		
T	40'		
T	73'		
T-1	72'		
U	10'		
U	37'		
U	68'		
V	10'		
V	40'	ND	ND
V	73'		
W	10'		
W	40'		
W	80'		
W	120'		
W	158'		
	TSI	43%	80ppm

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-898
FAX: (818) 707-3012

CONFIDENTIAL

EXHIBIT D

Laboratory Analytical Results - Third Quarter, 1999

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	07/15/99 07/15/99 07/16/99
Attn: Robert McAllister RE: Penrose Landfill / J152-6	Work Order No.: Method: Page 1 of 2	99-07-0352 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #1		
Methane	3	1
TGNMO	6	1
Sample Number: ISS #2		
Methane	3	1
TGNMO	4	1
Sample Number: PPS T 40'		
Methane	0.6*	0.1
TGNMO	16	1
Sample Number: PPS U 68'		
Methane	2	1
TGNMO	10	1

* Reported in percent (%) by volume.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Sampled: 07/15/99
Date Received: 07/15/99
Date Analyzed: 07/16/99

Attn: Robert McAllister
RE: Penrose Landfill / J152-6

Work Order No.: 99-07-0352
Method: SCAQMD 25.1
Page 2 of 2

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reporting Limit
Sample Number: TSI		
Oxygen plus Argon	5.5*	0.1
Nitrogen	31.7*	0.1
Methane	31.4*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	31.4*	0.1
TGNMO	935	1
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1

L.A. By Products/Sepich Associates, Inc. | Work Order No.: 99-07-0352
Page 1 of 1 | Date Analyzed: 07/16/99

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Oxygen plus Argon	96	96	80 - 120	0	0 - 20
Nitrogen	96	96	80 - 120	0	0 - 20
Carbon Dioxide	104	106	80 - 120	2	0 - 20
Methane	105	106	80 - 120	1	0 - 20
Carbon Monoxide	92	92	80 - 120	0	0 - 20
TGNMO (as Methane)	97	96	80 - 120	1	0 - 20

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 07/15/99
Work Order No: 99-07-0352
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS #1	99-07-0352-1	07/15/99	Air	N/A	07/17/99	K990716A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	4.0	8		ppb (v/v)	Toluene	ND	4.0	8		ppb (v/v)
Acetonitrile	ND	8.0	8		ppb (v/v)	Trichloroethene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethene	ND	4.0	8		ppb (v/v)	Tetrachloroethene	ND	4.0	8		ppb (v/v)
Methylene Chloride	ND	16	8		ppb (v/v)	Chlorobenzene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethane	ND	4.0	8		ppb (v/v)	Xylenes (total)	ND	12	8		ppb (v/v)
Chloroform	ND	4.0	8		ppb (v/v)	Benzyl Chloride	ND	4.0	8		ppb (v/v)
1,2-Dichloroethane	ND	4.0	8		ppb (v/v)	1,3-Dichlorobenzene	ND	4.0	8		ppb (v/v)
1,1,1-Trichloroethane	ND	4.0	8		ppb (v/v)	1,4-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Benzene	ND	4.0	8		ppb (v/v)	1,2-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Carbon Tetrachloride	ND	4.0	8		ppb (v/v)						

ISS #2	99-07-0352-2	07/15/99	Air	N/A	07/17/99	K990716A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	4.0	8		ppb (v/v)	Toluene	ND	4.0	8		ppb (v/v)
Acetonitrile	ND	8.0	8		ppb (v/v)	Trichloroethene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethene	ND	4.0	8		ppb (v/v)	Tetrachloroethene	ND	4.0	8		ppb (v/v)
Methylene Chloride	ND	16	8		ppb (v/v)	Chlorobenzene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethane	ND	4.0	8		ppb (v/v)	Xylenes (total)	ND	12	8		ppb (v/v)
Chloroform	ND	4.0	8		ppb (v/v)	Benzyl Chloride	ND	4.0	8		ppb (v/v)
1,2-Dichloroethane	ND	4.0	8		ppb (v/v)	1,3-Dichlorobenzene	ND	4.0	8		ppb (v/v)
1,1,1-Trichloroethane	ND	4.0	8		ppb (v/v)	1,4-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Benzene	ND	4.0	8		ppb (v/v)	1,2-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Carbon Tetrachloride	ND	4.0	8		ppb (v/v)						

PPS T 40'	99-07-0352-3	07/15/99	Air	N/A	07/17/99	K990716A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	4.0	8		ppb (v/v)	Toluene	ND	4.0	8		ppb (v/v)
Acetonitrile	ND	8.0	8		ppb (v/v)	Trichloroethene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethene	ND	4.0	8		ppb (v/v)	Tetrachloroethene	9.4	4.0	8		ppb (v/v)
Methylene Chloride	ND	16	8		ppb (v/v)	Chlorobenzene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethane	ND	4.0	8		ppb (v/v)	Xylenes (total)	ND	12	8		ppb (v/v)
Chloroform	ND	4.0	8		ppb (v/v)	Benzyl Chloride	ND	4.0	8		ppb (v/v)
1,2-Dichloroethane	ND	4.0	8		ppb (v/v)	1,3-Dichlorobenzene	ND	4.0	8		ppb (v/v)
1,1,1-Trichloroethane	ND	4.0	8		ppb (v/v)	1,4-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Benzene	ND	4.0	8		ppb (v/v)	1,2-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Carbon Tetrachloride	ND	4.0	8		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 07/15/99
Work Order No: 99-07-0352
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
PPS U 68'	**99-07-0352-4**	**07/15/99**	**Air**	**N/A**	**07/17/99**	**K990716A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	4.0	8		ppb (v/v)	Toluene	ND	4.0	8		ppb (v/v)
Acetonitrile	ND	8.0	8		ppb (v/v)	Trichloroethene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethene	ND	4.0	8		ppb (v/v)	Tetrachloroethene	ND	4.0	8		ppb (v/v)
Methylene Chloride	ND	16	8		ppb (v/v)	Chlorobenzene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethane	ND	4.0	8		ppb (v/v)	Xylenes (total)	ND	12	8		ppb (v/v)
Chloroform	ND	4.0	8		ppb (v/v)	Benzyl Chloride	ND	4.0	8		ppb (v/v)
1,2-Dichloroethane	ND	4.0	8		ppb (v/v)	1,3-Dichlorobenzene	ND	4.0	8		ppb (v/v)
1,1,1-Trichloroethane	ND	4.0	8		ppb (v/v)	1,4-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Benzene	ND	4.0	8		ppb (v/v)	1,2-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Carbon Tetrachloride	ND	4.0	8		ppb (v/v)						

TSI	**99-07-0352-5**	**07/15/99**	**Air**	**N/A**	**07/17/99**	**K990717A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	200	390		ppb (v/v)	Toluene	3200	195	390		ppb (v/v)
Acetonitrile	ND	390	390		ppb (v/v)	Trichloroethene	390	195	390		ppb (v/v)
1,1-Dichloroethene	680	195	390		ppb (v/v)	Tetrachloroethene	890	195	390		ppb (v/v)
Methylene Chloride	2300	780	390		ppb (v/v)	Chlorobenzene	ND	200	390		ppb (v/v)
1,1-Dichloroethane	ND	200	390		ppb (v/v)	Xylenes (total)	2000	585	390		ppb (v/v)
Chloroform	ND	200	390		ppb (v/v)	Benzyl Chloride	ND	200	390		ppb (v/v)
1,2-Dichloroethane	ND	200	390		ppb (v/v)	1,3-Dichlorobenzene	ND	200	390		ppb (v/v)
1,1,1-Trichloroethane	ND	200	390		ppb (v/v)	1,4-Dichlorobenzene	ND	200	390		ppb (v/v)
Benzene	560	195	390		ppb (v/v)	1,2-Dichlorobenzene	ND	200	390		ppb (v/v)
Carbon Tetrachloride	ND	200	390		ppb (v/v)						

Method Blank	**095-01-021-750**	**N/A**	**Air**	**N/A**	**07/17/99**	**K990717A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	ND	0.50	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 07/15/99
Work Order No: 99-07-0352
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	**095-01-021-751**	**N/A**	**Air**	**N/A**	**07/16/99**	**K990716A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	ND	0.50	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 07/15/9
Work Order No: 99-07-035
Preparation: N/
Method: EPA TO-1

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-751	Air	GC/MS E	N/A	07/16/99	K990716A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	100	100	60-140	0	0-30	
1,2-Dichloroethane	104	104	60-140	1	0-30	
Benzene	103	102	60-140	1	0-30	
Carbon Tetrachloride	106	104	60-140	2	0-30	
Trichloroethene	105	104	60-140	1	0-30	
Tetrachloroethene	108	107	60-140	1	0-30	
1,4-Dichlorobenzene	105	103	60-140	2	0-30	
1,2-Dichlorobenzene	108	106	60-140	2	0-30	

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 07/15/9
Work Order No: 99-07-035
Preparation: N/
Method: EPA TO-1

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-750	Air	GC/MS E	N/A	07/17/99	K990717A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	95	92	60-140	2	0-30	
1,2-Dichloroethane	99	99	60-140	0	0-30	
Benzene	100	100	60-140	0	0-30	
Carbon Tetrachloride	108	106	60-140	2	0-30	
Trichloroethene	98	98	60-140	0	0-30	
Tetrachloroethene	100	101	60-140	1	0-30	
1,4-Dichlorobenzene	102	100	60-140	2	0-30	
1,2-Dichlorobenzene	104	102	60-140	2	0-30	

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GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 99-07-0352

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	7-15-99

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH4				Fixed Gas	REMARKS
J152 6	7/15 99	9:30 AM	C	1	ISS #1	X	X		X					
J152 6	7/15 99	9:48 AM	C	1	ISS #2	X	X		X					
J152 6	7/15 99	10:15 AM	G	1	PPS T 40'	X	X							
J152 6	7/15 99	10:45 AM	G	1	PPS ~~T~~ U 68'	X	X							
J152 6	7/15 99	11:11 AM	G	1	TSI	X	X						X	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	7/15	
RECEIVED BY:	[illegible]	CEL	7/15	1420
RELINQUISHED BY:	[illegible]		7/15	1540
RECEIVED BY:	[illegible]		07-15-99	1540
RELINQUISHED BY:	[illegible]		07-15-99	1640
RECEIVED BY:	[illegible]	CEL	7/15/99	1640

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	08/31/99
444 Irving Drive, Suite 101	Date Received:	08/31/99
Burbank, CA 91504	Date Analyzed:	09/02/99
	Work Order No.:	99-08-0970
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill / J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #41		
Methane	2	1
TGNMO	5	1
Sample Number: ISS #42		
Methane	2	1
TGNMO	3	1
Sample Number: PPS-R 40'		
Methane	ND	1
TGNMO	7	1
Sample Number: TSI		
Oxygen	1.1*	0.1
Nitrogen	19.7*	0.1
Methane	42.1*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	37.0*	0.1
TGNMO	1030	1

* Reported in percent (%) by volume.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	08/31/99 08/31/99 09/02/99
Attn: Robert McAllister RE: Penrose Landfill / J152-6	Work Order No.: Method: Page 2 of 2	99-08-0970 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
Oxygen	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1

L.A. By Products/Sepich Associates, Inc. Work Order No.: 99-08-0970
Page 1 of 1 Date Analyzed: 09/02/99

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Oxygen	96	97	80 - 120	1	0 - 20
Nitrogen	96	96	80 - 120	0	0 - 20
Carbon Dioxide	104	104	80 - 120	0	0 - 20
Methane	104	105	80 - 120	1	0 - 20
Carbon Monoxide	86	87	80 - 120	1	0 - 20
TGNMO (as Methane)	94	94	80 - 120	0	0 - 20

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 08/31/99
Work Order No: 99-08-0970
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS #41	99-08-0970-1	08/31/99	Air	N/A	09/03/99	E990903A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	4.5	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	4.1	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.4	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

ISS #42	99-08-0970-2	08/31/99	Air	N/A	09/02/99	E990902A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	4.6	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	6.3	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.5	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

PPS-R 40'	99-08-0970-3	08/31/99	Air	N/A	09/02/99	E990902A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	2.7	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	11	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	4.0	1.5	1		ppb (v/v)
Chloroform	21	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	0.62	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 08/31/99
Work Order No: 99-08-0970
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	99-08-0970-4	08/31/99	Air	N/A	09/02/99	E990902A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	330	150	300		ppb (v/v)	Toluene	12000	150	300		ppb (v/v)
Acetonitrile	ND	300	300		ppb (v/v)	Trichloroethene	ND	150	300		ppb (v/v)
1,1-Dichloroethene	ND	150	300		ppb (v/v)	Tetrachloroethene	200	150	300		ppb (v/v)
Methylene Chloride	1100	600	300		ppb (v/v)	Chlorobenzene	1000	150	300		ppb (v/v)
1,1-Dichloroethane	ND	150	300		ppb (v/v)	Xylenes (total)	15000	450	300		ppb (v/v)
Chloroform	ND	150	300		ppb (v/v)	Benzyl Chloride	ND	150	300		ppb (v/v)
1,2-Dichloroethane	ND	150	300		ppb (v/v)	1,3-Dichlorobenzene	ND	150	300		ppb (v/v)
1,1,1-Trichloroethane	ND	150	300		ppb (v/v)	1,4-Dichlorobenzene	770	150	300		ppb (v/v)
Benzene	1700	150	300		ppb (v/v)	1,2-Dichlorobenzene	180	150	300		ppb (v/v)
Carbon Tetrachloride	ND	150	300		ppb (v/v)						

Method Blank	095-01-021-783	N/A	Air	N/A	09/03/99	E990903A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	ND	0.50	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

Method Blank	095-01-021-784	N/A	Air	N/A	09/02/99	E990902A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	ND	0.50	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 08/31/99
Work Order No: 99-08-0970
Preparation: N/A
Method: EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-784	Air	GC/MS E	N/A	09/02/99	E990902A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	77	76	60-140	2	0-30	
1,2-Dichloroethane	91	91	60-140	1	0-30	
Benzene	82	86	60-140	4	0-30	
Carbon Tetrachloride	86	88	60-140	1	0-30	
Trichloroethene	87	89	60-140	2	0-30	
Tetrachloroethene	80	84	60-140	4	0-30	
1,4-Dichlorobenzene	92	98	60-140	5	0-30	
1,2-Dichlorobenzene	89	93	60-140	5	0-30	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 08/31/99
Work Order No: 99-08-0970
Preparation: N/A
Method: EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-783	Air	GC/MS E	N/A	09/03/99	E990903A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	75	75	60-140	0	0-30	
1,2-Dichloroethane	89	88	60-140	0	0-30	
Benzene	79	80	60-140	1	0-30	
Carbon Tetrachloride	83	84	60-140	1	0-30	
Trichloroethene	84	84	60-140	0	0-30	
Tetrachloroethene	77	77	60-140	1	0-30	
1,4-Dichlorobenzene	95	89	60-140	7	0-30	
1,2-Dichlorobenzene	86	88	60-140	3	0-30	

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SEP-08-1999 10:00 CALSCIENCE 714 894 7501 P.11/11

(6970)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	8/31/99

CHAIN OF CUSTODY RECORD

SHEET___OF___

SAMPLE TAKEN BY:

ROBERT McAllister — JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
J152-6	8/31/99	10:00 AM	C	1	ISS #41	X	X		X					
J152-6	8/31/99	10:25 AM	C	1	ISS #42	X	X		X					
J152-6	8/31/99	11:15 AM	G	1	-PPS-R 40'	X	X							
J152-6	8/31/99	11:50 AM	G	1	- TSI	X	X						X	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	8/31	1540
RECEIVED BY:			8/31	1540
RELINQUISHED BY:		CEL	8/31	1800
RECEIVED BY:		CEL	8/31	1800
RELINQUISHED BY:				
RECEIVED BY:				

TOTAL P.11

000756

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Sampled: 09/29/99
Date Received: 09/29/99
Date Analyzed: 09/30/99

Work Order No.: 99-09-0977
Method: SCAQMD 25.1
Page 1 of 2

Attn: Robert McAllister
RE: Penrose Landfill / J152-6

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: ISS # 32		
Methane	2	1
TGNMO	9	1
Sample Number: ISS # 31		
Methane	2	1
TGNMO	4	1
Sample Number: PPS V 40'		
Methane	2.0*	1
TGNMO	18	1
Sample Number: TSI		
Oxygen	0.9*	0.1
Nitrogen	19.9*	0.1
Methane	41.2*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	38.0*	0.1
TGNMO	1120	1

*Result reported in percent (%) by volume.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	09/29/99 09/29/99 09/30/99
Attn: Robert McAllister RE: Penrose Landfill / J152-6	Work Order No.: Method: Page 2 of 2	99-09-0977 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1
Sample Number: Method Blank		
Oxygen	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1

*Result reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1

L.A. By Products/Sepich Associates. Inc. | Work Order No.: 99-09-0977
Page 1 of 1 | Date Analyzed: 09/30/99

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Oxygen	96	96	80 - 120	0	0 - 20
Nitrogen	96	97	80 - 120	1	0 - 20
Carbon Dioxide	104	104	80 - 120	0	0 - 20
Methane	104	104	80 - 120	0	0 - 20
Carbon Monoxide	84	84	80 - 120	0	0 - 20
TGNMO (as Methane)	93	94	80 - 120	1	0 - 20

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 09/29/9
Work Order No: 99-09-097
Preparation: N/
Method: EPA TO-1

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS # 32	99-09-0977-1	09/29/99	Air	N/A	09/30/99	K990930A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	3.8	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	4.2	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	5.2	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	0.68	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

ISS # 31	99-09-0977-2	09/29/99	Air	N/A	09/30/99	K990930A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	3.4	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	17	2	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	5.4	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

PPS V 40'	99-09-0977-3	09/29/99	Air	N/A	09/30/99	K990930A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	4.0	8		ppb (v/v)	Toluene	ND	4.0	8		ppb (v/v)
Acetonitrile	ND	8.0	8		ppb (v/v)	Trichloroethene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethene	ND	4.0	8		ppb (v/v)	Tetrachloroethene	9.8	4.0	8		ppb (v/v)
Methylene Chloride	ND	16	8		ppb (v/v)	Chlorobenzene	ND	4.0	8		ppb (v/v)
1,1-Dichloroethane	6.1	4.0	8		ppb (v/v)	Xylenes (total)	ND	12	8		ppb (v/v)
Chloroform	ND	4.0	8		ppb (v/v)	Benzyl Chloride	ND	4.0	8		ppb (v/v)
1,2-Dichloroethane	ND	4.0	8		ppb (v/v)	1,3-Dichlorobenzene	ND	4.0	8		ppb (v/v)
1,1,1-Trichloroethane	ND	4.0	8		ppb (v/v)	1,4-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Benzene	ND	4.0	8		ppb (v/v)	1,2-Dichlorobenzene	ND	4.0	8		ppb (v/v)
Carbon Tetrachloride	ND	4.0	8		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 09/2
Work Order No: 99-09-(
Preparation:
Method: EPA T(

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID
TSI	99-09-0977-4	09/29/99	Air	N/A	09/30/99	K990930A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Uni
Vinyl Chloride	200	120	240		ppb (v/v)	Toluene	5300	120	240		ppb (
Acetonitrile	770	240	240		ppb (v/v)	Trichloroethene	ND	120	240		ppb (
1,1-Dichloroethene	220	120	240		ppb (v/v)	Tetrachloroethene	ND	120	240		ppb (
Methylene Chloride	2300	480	240		ppb (v/v)	Chlorobenzene	340	120	240		ppb (
1,1-Dichloroethane	ND	120	240		ppb (v/v)	Xylenes (total)	5300	360	240		ppb (
Chloroform	ND	120	240		ppb (v/v)	Benzyl Chloride	ND	120	240		ppb (
1,2-Dichloroethane	ND	120	240		ppb (v/v)	1,3-Dichlorobenzene	ND	120	240		ppb (
1,1,1-Trichloroethane	ND	120	240		ppb (v/v)	1,4-Dichlorobenzene	170	120	240		ppb (
Benzene	820	120	240		ppb (v/v)	1,2-Dichlorobenzene	ND	120	240		ppb (
Carbon Tetrachloride	ND	120	240		ppb (v/v)						

Method Blank	095-01-021-810	N/A	Air	N/A	09/30/99	K990930A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	ND	0.50	1		ppb (v
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v
Benzene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 09/29/99
Work Order No: 99-09-0977
Preparation: N/A
Method: EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-810	Air	GC/MS K	N/A	09/30/99	K990930A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	111	113	60-140	2	0-30	
1,2-Dichloroethane	106	108	60-140	2	0-30	
Benzene	90	90	60-140	1	0-30	
Carbon Tetrachloride	101	102	60-140	1	0-30	
1,2-Dichloropropane	85	86	60-140	2	0-30	
c-1,3-Dichloropropene	95	97	60-140	1	0-30	
1,1,2-Trichloroethane	95	98	60-140	3	0-30	
1,2-Dibromoethane	104	103	60-140	1	0-30	
Trichloroethene	95	96	60-140	1	0-30	
Tetrachloroethene	95	96	60-140	1	0-30	
Bromoform	109	108	60-140	1	0-30	
1,4-Dichlorobenzene	98	98	60-140	1	0-30	
1,2-Dichlorobenzene	104	105	60-140	0	0-30	
Methyl-tert-Butyl Ether	104	106	60-140	2	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	9/29/9

CHAIN OF CUSTODY RECORD

SHEET 1 OF

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		FIXED GAS			TOC	REMARKS
J152-6	9/29 99	10:00 AM	C	1	ISS # 32	✓	✓	✓						
J152-6	9/29 99	10:30 AM	C	1	ISS # 31	✓	✓	✓						
J152-6	9/29 99	11:10 AM	G	1	PPS V 40'	✓	✓							
J152-6	9/29 99	11:00 AM	G	1	TSI	✓	✓			✓				

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	9/29/99	1615
RECEIVED BY:	[illegible]	CEL.	9/29/99	1615
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:	[illegible]	CEL.	9/29	1845
RECEIVED BY:	[illegible]		9/29	1845

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and METHANE SPECIALISTS
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July 26, 1999

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Second Quarter, 1999
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the twenty third quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period April through June 1999. Monitoring and sampling for this report was performed on April 13, 21, 26, and 29, May 5, 12, and 28, and June 1, 2, 8, 16, and 28, 1999.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989, the Guidelines were incorporated into the amended Rule 1150.1 on April 10, 1998) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products (LABP) was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe monitoring (PPM) and sampling (PPS), integrated surface sampling (ISS), instantaneous surface monitoring (ISM), ambient air sampling, and plant inlet (TSI, for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Ambient air sampling requirements are not included in the routine quarterly monitoring for Penrose. Per Rule 1150.1 simultaneous source tests at the inlet and outlet of the gas disposal system are done at Penrose on an annual basis, and reported in the next quarterly report after data is available.

On April 10, 1998 SCAQMD approved an amended version of Rule 1150.1: Control of Gaseous Emissions from Municipal Solid Waste (MSW) Landfill. The amended Rule required that owners of all MSW landfills within the district submit a statement of intent to comply with the amended Rule within 90 days of the amendment date. On July 10, 1998, Sepich Associates/Methane Specialists prepared and submitted a revised compliance plan to SCAQMD for the Los Angeles By-Products Company. Per § (k) of the amended Rule the submittal for Penrose LF contains exemptions subject to SCAQMD approval. The previous compliance plan will be in effect until SCAQMD approval of the revised plan is received. SCAQMD approval had not yet been received at the time of submittal of this report.

The application submitted by Los Angeles By-Products Company for Penrose LF for the new amended Rule includes changes from the old Rule. When SCAQMD approves, or requests changes in the submitted application for the amended Rule, the text in the quarterly reports will be changed to reflect the organization and terminology used to reflect our compliance to SCAQMD's requests.

A.1 *Subsurface Refuse Boundary Probe Monitoring (Attachment A, 1.2)*

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

1.2.1: If the TOC concentrations *measured with the FID does not exceed 5% by volume in any of the probes, collect one bag sample from one probe with the highest concentration, or*

1.2.2: If the TOC concentration *measured with the FID exceeds 5% by volume, collect one bag sample per probe from the probes with the highest concentrations above 5% by volume, from at least five probes.*

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.
2. Types and weights of waste materials deposited in the reporting year.
3. Total amount of waste materials deposited to date.
4. Contour map showing updated landfill boundary.
5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.
6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, April through June 1999, field monitoring was conducted on April 13, 21, and 26, May 5, 12, and 28, and June 1, 2, 8, 28, and 29, 1999. Additional perimeter probe monitoring results collected by David Thompson from the City of Los Angeles, Environmental Affairs Department (LEA), are included in Exhibit C and Table III. Samples were collected for laboratory analysis on April 26, and June 1, 2, and 28, 1999 (see Exhibit C for field documentation and Exhibit D for laboratory results).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on April 13, May 5, and June 8, 1999 was conducted by Sepich Associates/Methane Specialists personnel using an MSA Gasport Gas Tester (April 13), a Bacharach Gas Pointer II (May 5), or a Bacharach HPK Combustible Gas Detector (June 8). Perimeter probe monitoring on April 29, May 28, and June 29, 1999 was conducted by LABP personnel using a GasTech Natural Gas Indicator Model NPL-204. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California.

Perimeter probe sampling was conducted at Probes P (40') on April 26, at Probe K-1 (17') on June 1, and at Probe Q (10' and 40'), Probe V (40' and 80') and Probe E (18') on June 28, 1999. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on April 26, June 1, and June 28, 1999. On April 26, Areas 52 and 53 were sampled (see Integrated Surface Sampling Map in Exhibits A and C); on June 1, Areas 54 and 55 were sampled; and on June 28, Areas 56 and 57 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. All ISS field monitoring results for the Second Quarter TOC and H_2S concentrations were non-detect. Laboratory results are summarized in Table IV.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path B was traversed on April 21, and June 29, 1999. Path A was traversed on May 15, 1999. In April, May, and June no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Ogden Power Pacific, Inc. electrical generation plant inlet pipeline on April 26, June 2, and June 28, 1999. TOC was monitored with a GasTech Natural Gas Meter, Model NPL-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet Exhaust Sampling

Simultaneous inlet/exhaust samples were last collected on August 22, 1997 and results of inlet analyses were reported in the third and fourth quarter 1997 reports.

B.6 Reporting Requirements

This is the twenty third in a series of quarterly reports and the second quarterly report for Penrose Landfill for 1999. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Sepich Associates/Methane Specialists and LABP. The early (to mid-) month data is usually used to select the monthly probe sampling stations and the (mid to) late-month monitoring is used to fulfill any required follow-up probe monitoring. If gas is detected by agency inspectors their findings may influence the selection of probe sampling stations. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are attached in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

Perimeter probe monitoring on April 13, 1999 had no detections greater than 1% of volume. On April 26, 1999, Probe P (@ 40') was sampled.

Table I - April 1999
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBES SAMPLED ON April 26, 1999

Probe No.	Depth (ft)	TOC 4/13/99 (% Vol)	TOC 4/26/99 (% Vol)	Lab Results 4/26/99 (% Vol)	Follow up TOC 5/5/99 (% Vol)
P	40	ND	ND	.0004	ND

Note: Laboratory sample was collected 4 26/99. Field values are volume percent TOC.

ND = None detected

Perimeter probe monitoring on May 5, 1999 had one detection greater than 1% of volume .perimeter probe monitoring results ranged from 1.2% to 3.5% of volume combustible gas readings at Probe L at 105'. Probe K-1 (17 feet deep) was sampled on May 5, 1999. Laboratory analytical results are presented in Table II below and in Exhibit D.

Table II - May 1999
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON June 1, 1999

Probe No.	Depth (ft)	TOC 5/5/99 (% Vol)	TOC 5/28/99 (% Vol)	TOC 6/1/99 (% Vol)	Lab Result 6/1/99 (% Vol)	Follow up TOC 6/8/99 (% Vol)
K-1	17	ND	ND	ND	ND	ND

Note: Laboratory samples were collected 6/1/99. Laboratory results are volume percent of methane. Field values are volume percent TOC.

Perimeter probe monitoring on June 8, 1999 indicated non-detect readings at all probes. On June 28, 1999, Probe Q (10' and 40'), Probe V (40' and 80') and Probe E (18') were sampled (see lab results in Table III).

Table III - June 1999
SUMMARY OF FIELD TOC AND METHANE CONCENTRATIONS
FOR PERIMETER PROBE SAMPLED ON June 28, 1999

Probe No.	Depth (ft)	TOC 6/2/99 (% Vol) by LEA	TOC 6/8/99 (% Vol)	TOC 6/28/99 (% Vol)	Lab Results 6/28/99 (% Vol)	Follow-up TOC 6/29/99 (% Vol)
E	18	10.7	3.05	ND	.0003	ND
Q	10	22.6	ND	ND	<.0001	ND
Q	40	9.8	ND	ND	<.0001	1
V	40	15.7	4.1	.7	.6	ND
V	80	13.7	2.35	.6	.6	ND

Note: Laboratory samples were collected 6/28/99. Laboratory results are volume percent of methane. Field values are volume percent TOC

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. Table IV summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - Second QUARTER 1999
SUMMARY of ANALYTICAL RESULTS from INTEGRATED SURFACE SAMPLES

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
4/26/99 AREA # 52	2	2
4/26/99 AREA # 53	2	2
6/1/99 AREA # 54	2	3
6/1/99 AREA # 55	30	3
6/28/99 AREA # 56	2	6
6/28/99 AREA # 57	2	7

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Second Quarter of 1999.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 41.1% methane on April 26, 43.6% methane on June 2, and 41.5% methane on June 28, 1999. Dreager tube analytical results were 90 ppm H_2S on April 26, 85 ppm H_2S on June 2, and 85 ppm H_2S on June 28, 1999. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet Exhaust Sampling

SCAQMD source test sampling was last conducted on August 22, 1997. The analytical results from the samples collected at the plant inlet and generator exhaust, for source testing in 1997, were included in Exhibit E of the Third and Fourth Quarter 1997 Reports.

C.6 Report Requirements

This report constitutes the 1999, Second Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

Annual requirements 8.2 were included in the First Quarter 1999 report.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

Detections of high TOC concentrations from perimeter probes (Q, V, and E) during this reporting period triggered mitigation. Mitigation methods, including selective gas extraction from the areas of excessive landfill gas (LFG) migration, were enacted and follow-up monitoring of the same probes was performed in compliance with SCAQMD Rule 1150.1 (see Table III).

Major compliance endeavors enacted by Los Angeles By-Products Company and Ogden Power Pacific in the past several years include:

- Mitigation well (8 wells) program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter 1995 (including changing the gas collection system); probes 2 through 8 were replaced at this time; and
- Replacement probe (A1, K1, and J1) installation in Fourth Quarter, 1995.
- Closure plan construction at the Clubhouse and BMX track locations in 1998 and 1999.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

John Sepich, P.E.
President

J152rep

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Mr. David Thompson

California Integrated Waste Management Board

- Mr. Peter Janicke

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Second Quarter, 1999
- EXHIBIT D: Laboratory Analytical Results - Second Quarter, 1999

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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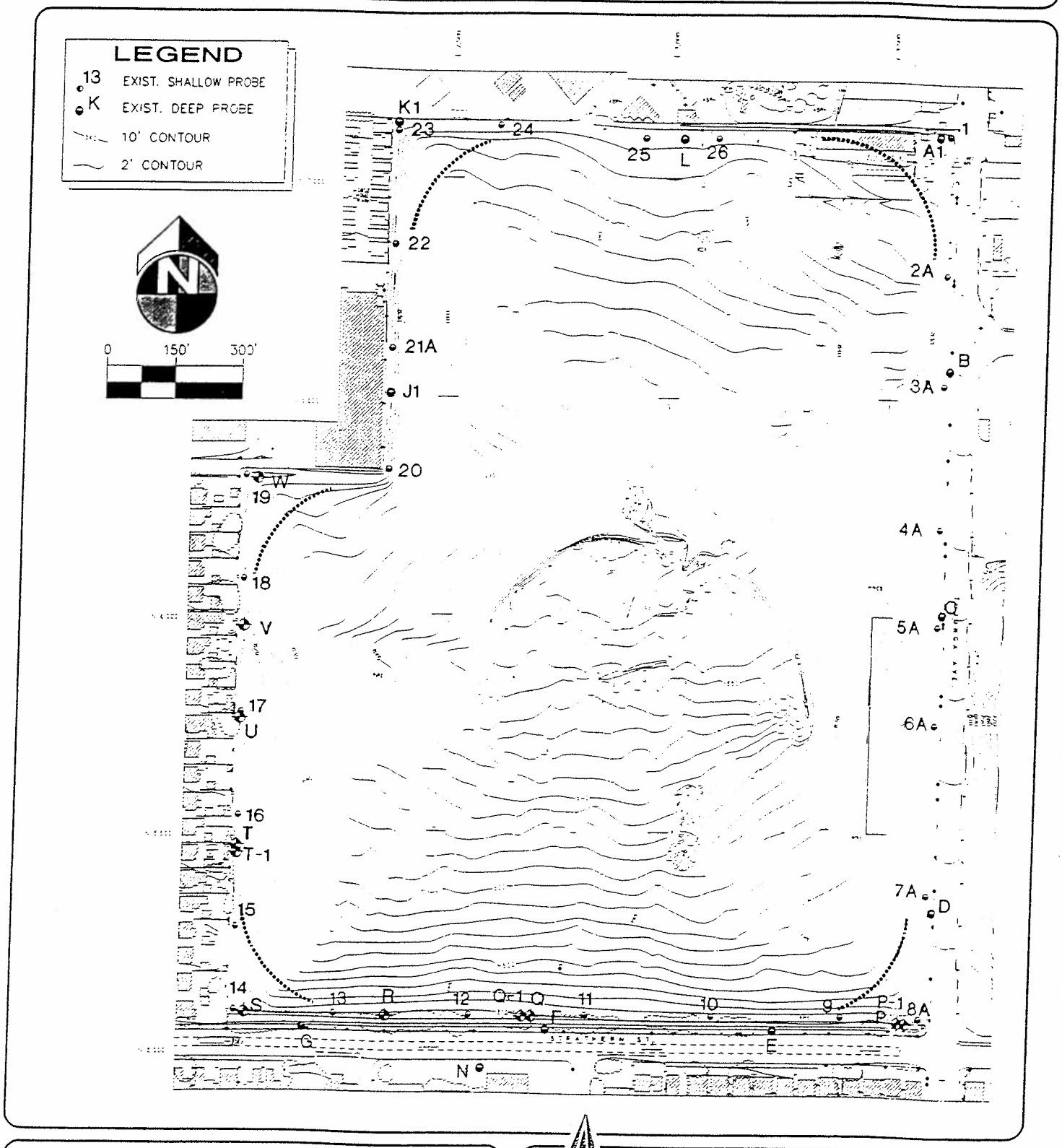
PENROSE LANDFILL
MONITORING PROBE LOCATIONS



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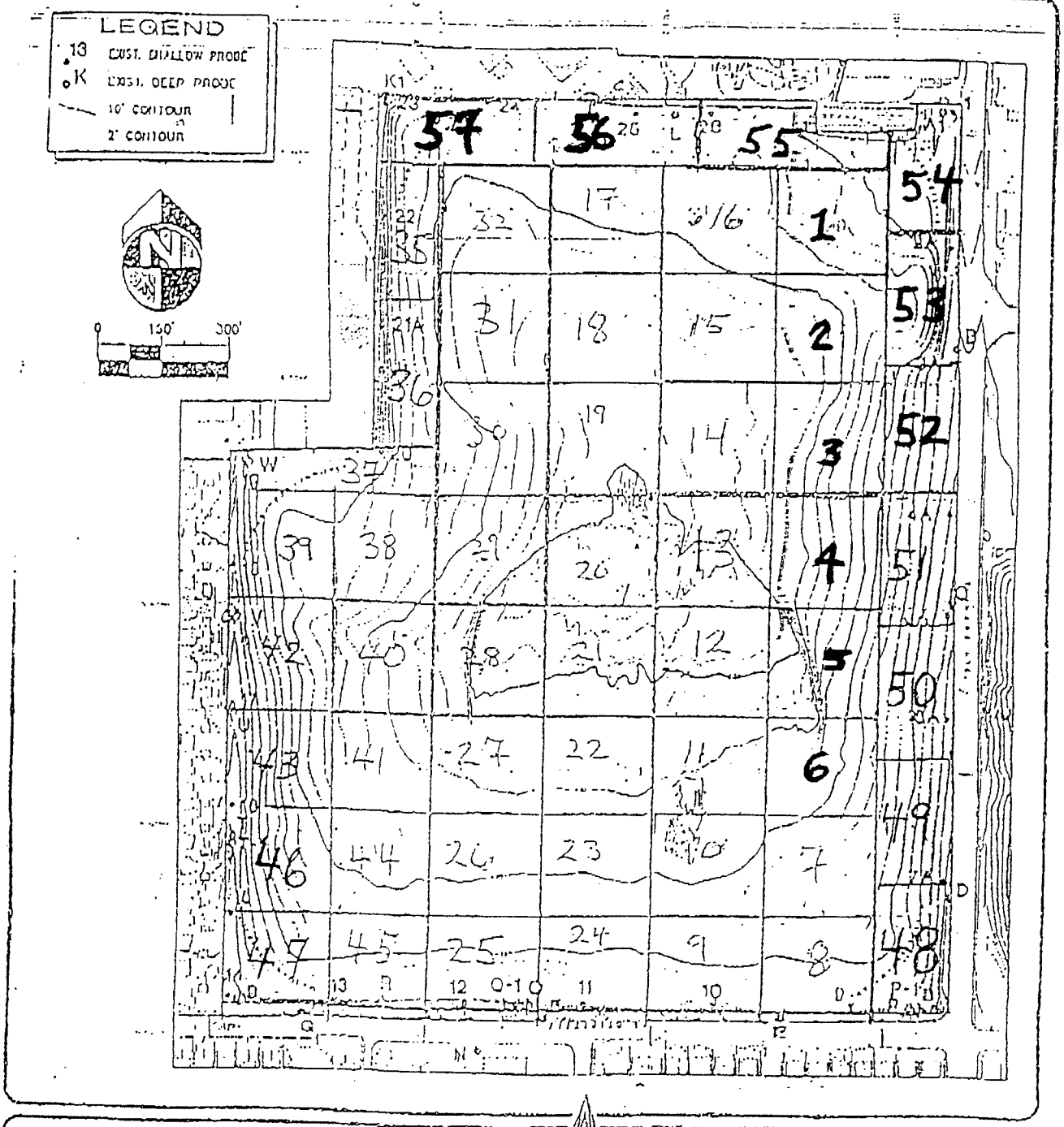
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



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TOTAL P.01

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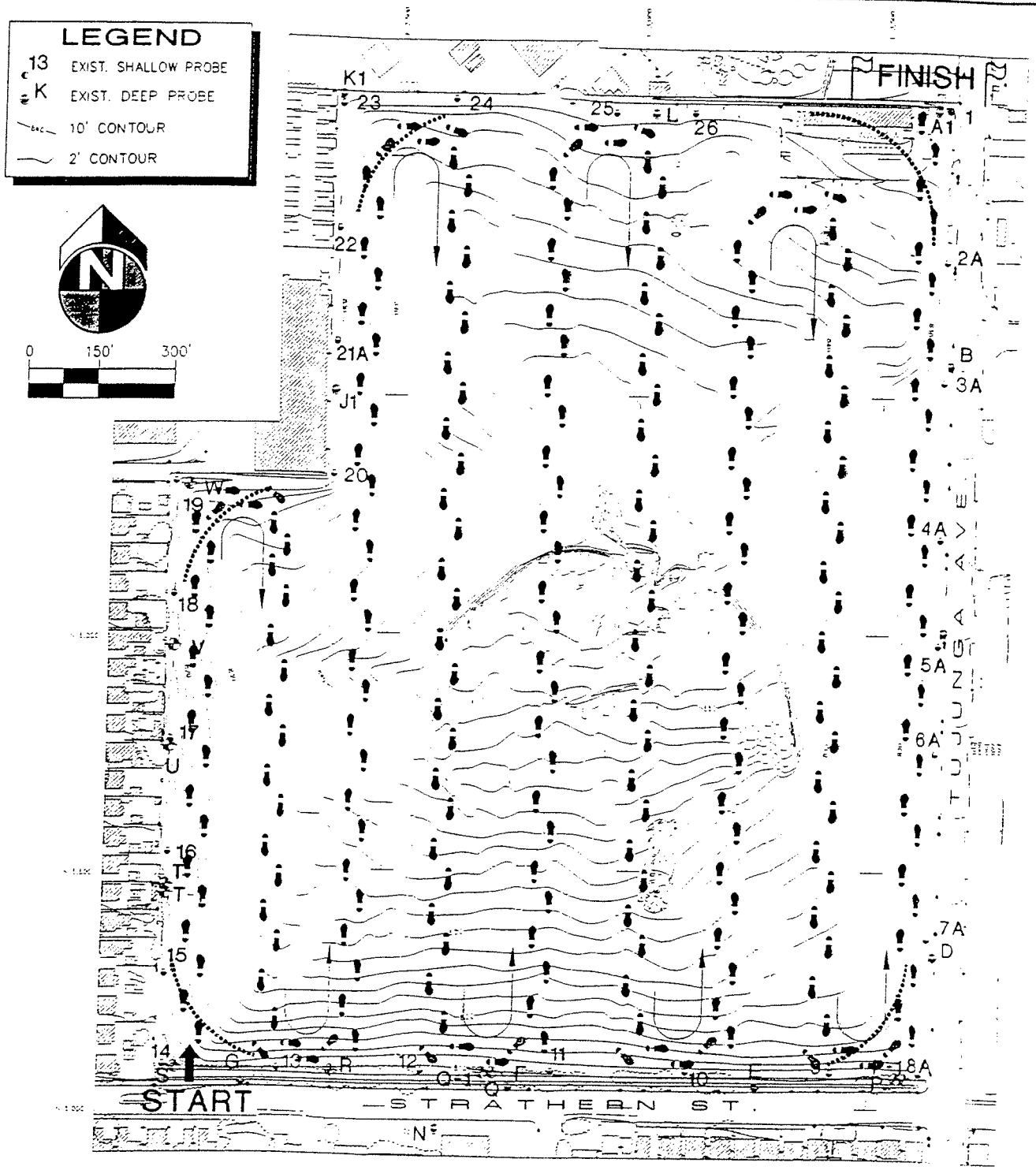
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

SEPICH ASSOCIATES, Inc.
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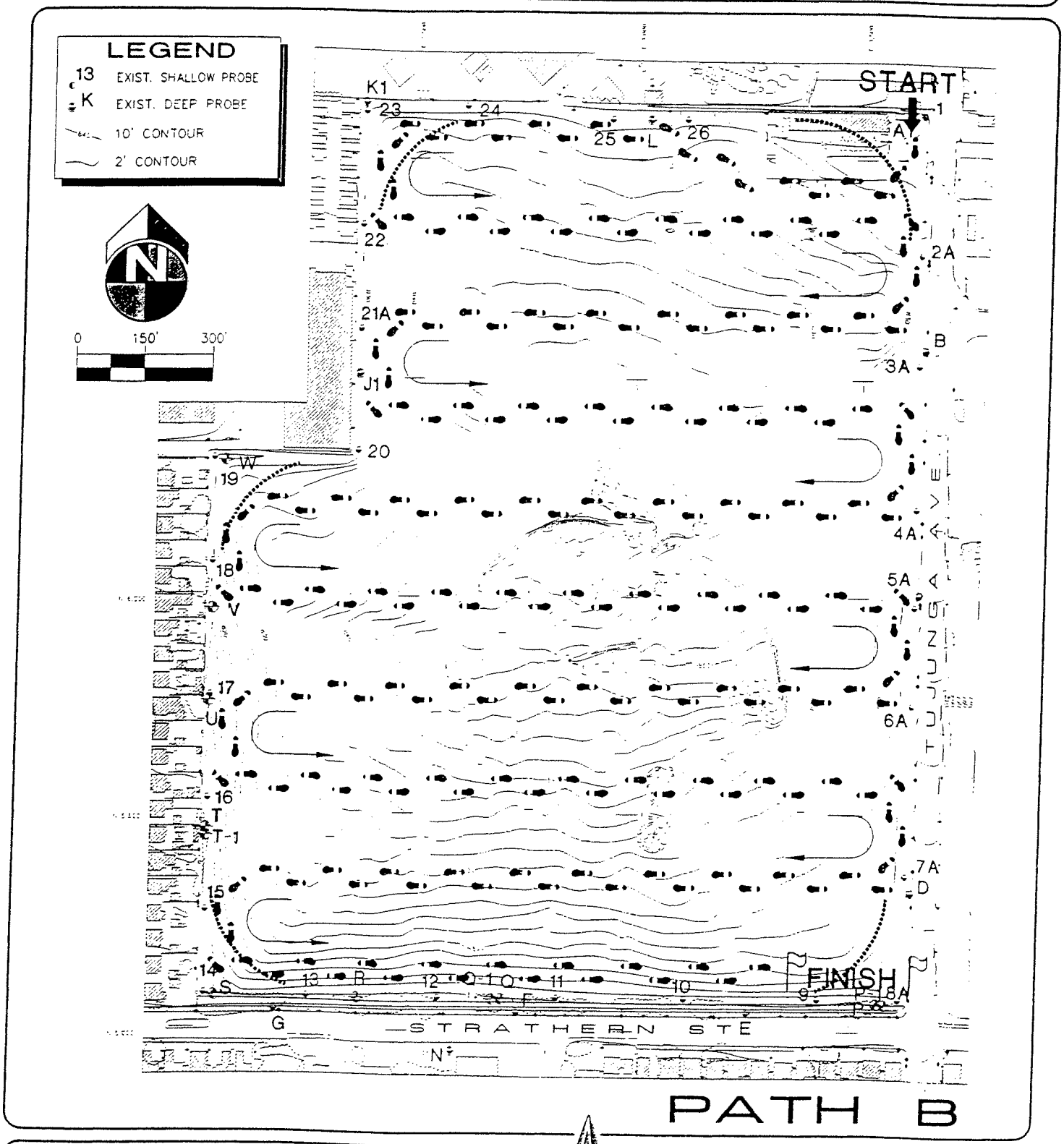
INSTANTANEOUS SURFACE MONITORING



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PENROSE LANDFILL GAS COLLECTION SYSTEM

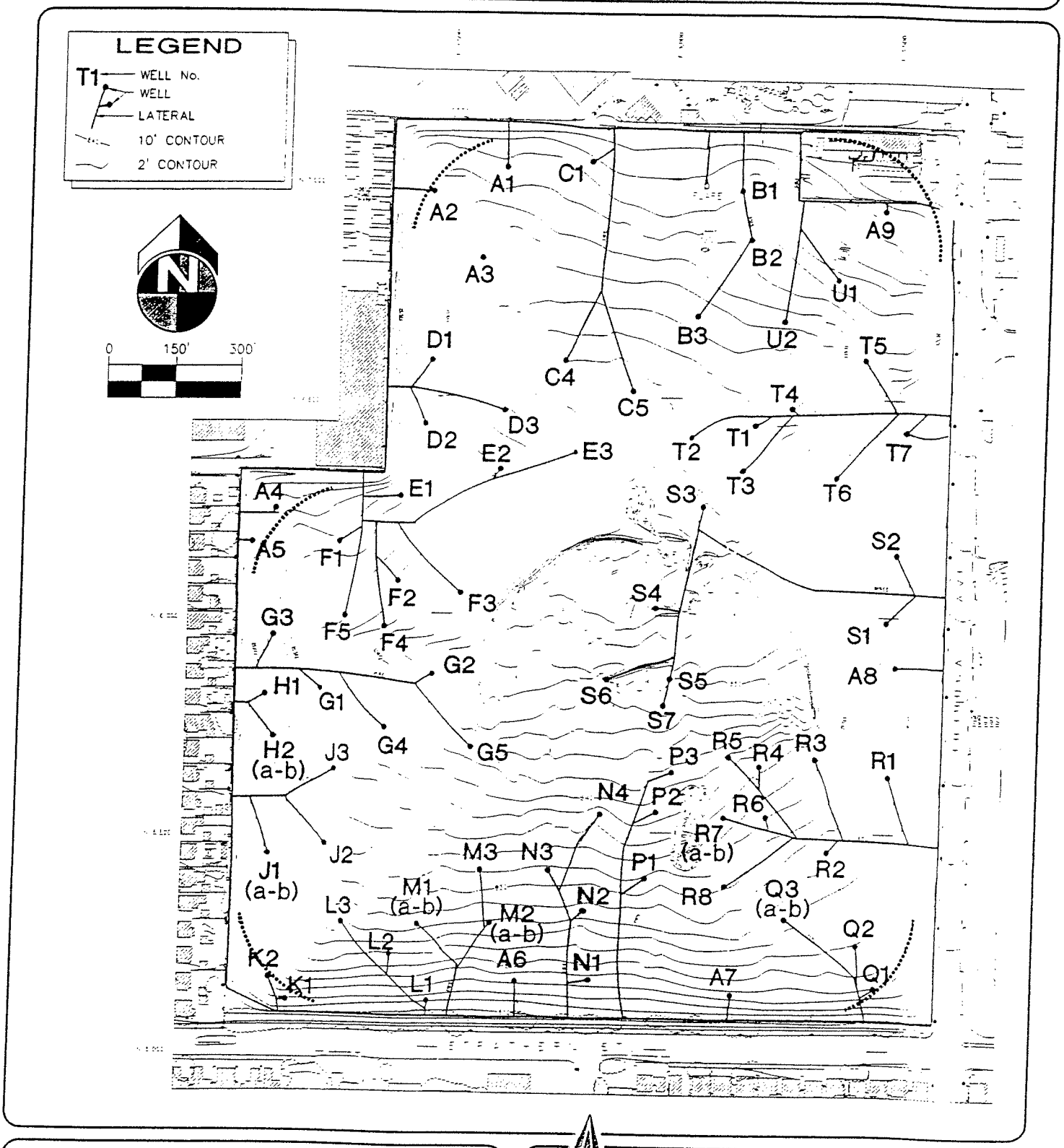

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EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Second Quarter, 1999

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Ogden Power Pacific
13181 Crossroads Parkway North, Suite 250
City of Industry, California 91746
Tel: (562) 695-2442 Fax: (562) 645-5663

JOB NAME: PENROSE LANDFILL

DATE	4-13-99
JOB No.	J481

GAS CONCENTRATIONS

INITIALS	ATF
TIME	1340-1715
INSTRUMENT	MSA Gasport Gas Tester
PARAMETER	% LEL Combustible Gas

REMARKS: PERIMETER PROBE MONITORING
1st Half April 1999;
ND = non detect; 100% LEL = 5% of volume;
x↓y = peak reading decreasing to sustained reading.
x = unable to monitor, W = water in probe; © = clogged

PROBE #	% LEL	NOTES
1	ND	
2 A	ND	
3 A	ND	
4 A	ND	
5 A	ND	
6 A	ND	
7 A	ND	
8 A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	ND	
21 A	ND	
22	ND	
23	X	LOST
24	ND	
25	ND	
26	ND	

PROBE #		% LEL	NOTES
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	
	ORANGE-61'	X	LOST
	RED - 81'	X	LOST
D		47↓12	in 10 sec.
E		ND	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	ND	©
	YELLOW-65'	ND	©
	ORANGE-85'	ND	©
	RED - 105'	8↓1	in 5 sec.
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	ND	
	80'	ND	
P-1	120'	W	©
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

		% LEL	NOTES
R	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
S	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
T	10'	ND	
	40'	ND	
	73'	ND	
T-1	72'	ND	
U	10'	ND	
	37'	16	
	68'	1	
V	10'	ND	
	40'	ND	
	73'	ND	
W	10'	ND	
	40'	2	
	80'	ND	
	120'	ND	
	158'	ND	
TSI			

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J752-6

DATE 4/21/99

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain

<32° F / 33°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F

still / breeze / wind

dry / moderate / humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was warm with clouds burning off in the morning. Wind velocity was determined by an electronic wind speed indicator ND. Last recorded rainfall was over 72 hours ago. OVA instrument used was FoxBoro 128 last calibrated by Robert McAllister on Today 4/21/99 at 9:00 AM. Monitor began at 9:15 am and was completed at 10:45 am with a result of ND. Contractor followed Path 'B'.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JS20075 4/15/94

SHEET__OF__

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 4/26/99

INSPECTION REPORT

CLIMATE: bright, clear, fog / ~~cloudy~~, overcast, rain / <32° F, 33°-55°, 56°-70° / ~~71°-85°~~, 86°-100°, >100° F / ~~still~~, breeze, wind / dry, ~~moderate~~, humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was warm with a thick cloud layer. Wind velocity was determined ND by an electronic wind speed indicator. Last recorded rainfall was over 72 hours ago. TOC instrument used was a Natural Gas Indicator model API-204 last calibrated by J.G. Tucker and Son on 8/7/98. OVA instrument used was a Foxboro 128 last calibrated by Robert McAllister on 4/21/99. H_2S tests were done with Drager tubes and a Drager pump. All air samples were collected in 10-liter Tedlar bags and placed into a black bag for protection from Sunlight. ISS samples were collected with a portable self-contained unit with its own internal power

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JSA0075 4/15/94

SHEET__OF__

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-8321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. JISZ-6

DATE 4/26/99

REMARKS CONTINUED: supply, which collected samples at 400 cc/MIN. ISS # 52 was collected at 9:15 am and tested OVA (ND) and H_2S (ND). ISS # 53 was collected at 9:45 and tested OVA (ND) H_2S (ND). PPS @ 40' was collected at 10:15 am and tested TOC (ND) and H_2S (ND). TSI was collected at 11:30 am and tested H_2S (98 ppm) and TOC (43%).

Robert Mc Elliot
INSPECTOR

PRINCIPAL

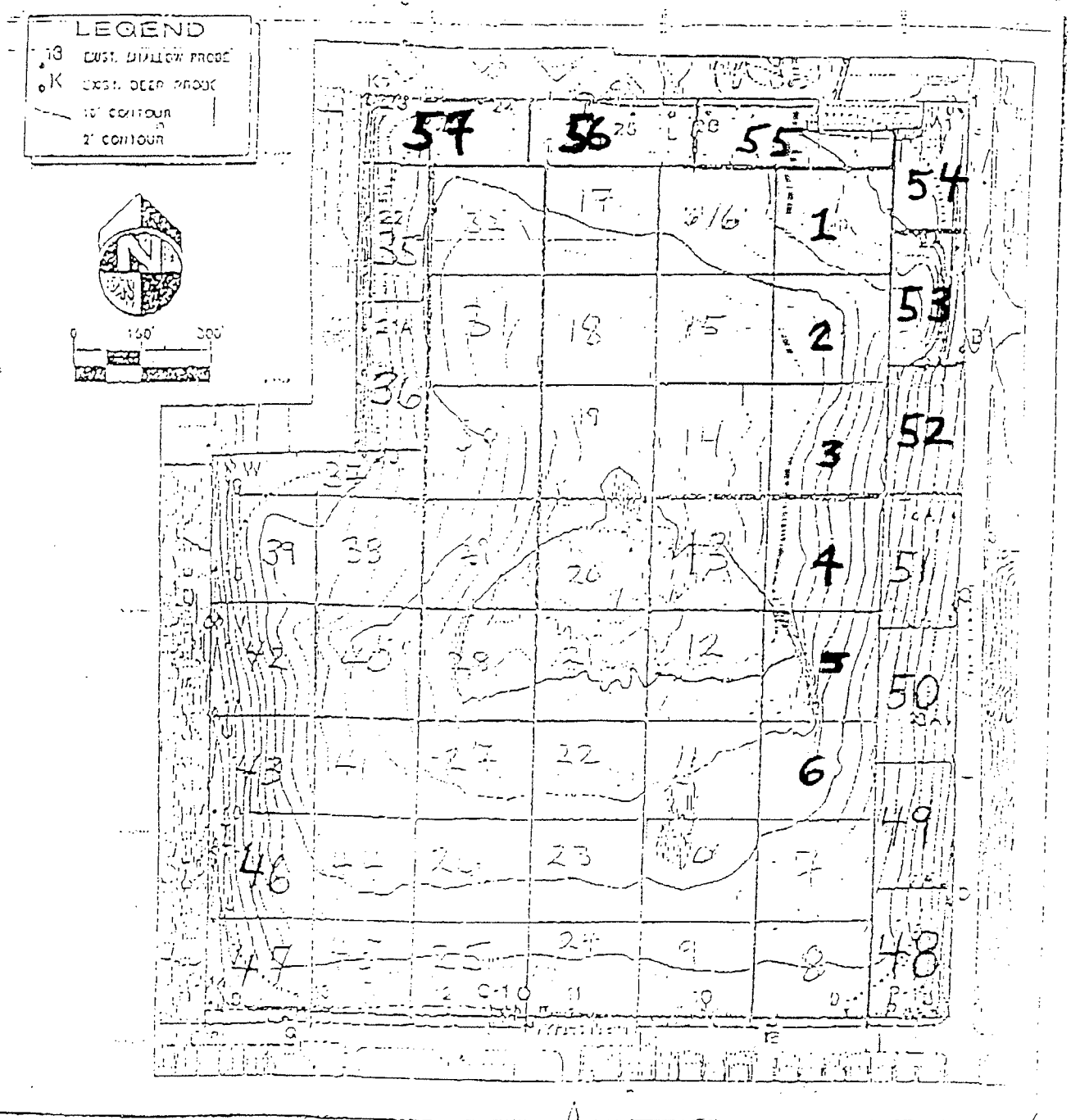
ISA0075 4/15/94

SHEET__OF__

CONFIDENTIAL

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



SEPICH ASSOCIATES

Los Angeles By-Products Co.

SHEET

000736

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1925
1010 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 4/26/99

Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	OVA	H_2S
ISS #52	ND	ND
ISS #53	ND	ND

REMARKS: Cloudy Day - WARM
ISS #52 - 9:15 Am
ISS #53 - 9:45 Am
PPS P 40' - 10:15 Am
TSI - 11:30 AM

PROBE #		TOC	H_2S
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'	ND	ND
	80'		
P-1	120'		

PROBE #		H_2S	TOC
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	90 ppm	43%

Form prepared by: METHANE SPECIALISTS
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J152-6

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 4/29/99

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	RM
TIME	9-12:10 pm
INSTRUMENT	TOC- Natural Gas Indicator
PARAMETER	

REMARKS: Began 9:00 am and finished 12:10 pm.

PROBE #	
1	ND
2 A	
3 A	
4 A	
5 A	
6 A	
7 A	
8 A	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21 A	
22	
23	
24	
25	
26	

PROBE #		
A-1		ND
B		
C	GREEN-21'	
	YELLOW-41'	
	ORANGE-61'	x
	RED - 81'	ND
D		
E		
F		
G		
J-1		
K-1		
L	GREEN-45'	
	YELLOW-65'	.3%
	ORANGE-85'	
	RED - 105'	.4%
N	GREEN-22'	
	YELLOW-45'	
	ORANGE-68'	
	RED - 90'	
P	10'	
	40'	
	80'	
P-1	120'	
Q	10'	
	40'	
	75'	
Q-1	120'	
	158'	

R	10'	ND
	40'	
	80'	
	120'	
S	10'	
	40'	
	80'	
	120'	
T	10'	
	40'	
	73'	
T-1	72'	
U	10'	
	37'	
	68'	
V	10'	
	40'	
	73'	
W	10'	
	40'	
	80'	
	120'	
	158'	
TSI		

SEPICH ASSOCIATES, Inc.
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680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

REV 2-22-99

CONFIDENTIAL

Ogden Power Pacific
13181 Crossroads Parkway North, Suite 250
City of Industry, California 91746
Tel: (562) 695-2442 Fax: (562) 645-5683

JOB NAME: PENROSE LANDFILL

DATE: 5/5/99

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: GTF

TIME: 9/25-1330

INSTRUMENT: BACHARACH GAS POINTER II

PARAMETER: %LEL VOL/%

REMARKS: Checked detector w/2.5% CH4 calibrant: registered 45% LEL readings are adjusted to account for the drift.
X = Could not monitor
ND = non-detect
NOTE: RESULTS are in % LEL

PROBE #	
1	ND
2 A	ND
3 A	ND
4 A	ND
5 A	ND
6 A	ND
7 A	ND
8 A	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
16	ND
17	ND
18	ND
19	ND
20	ND
21 A	ND
22	ND
23	ND
24	ND
25	ND
26	ND

PROBE #		
A-1		ND
B		ND
C	GREEN-21'	ND
	YELLOW-41'	ND
	ORANGE-61'	X
	RED - 81'	ND
D		1
E		ND
F		ND
G		ND
J-1		ND
K-1		ND
L	GREEN-45'	ND
	YELLOW-65'	ND
	ORANGE-85'	ND
	RED - 105'	23
N	GREEN-22'	ND
	YELLOW-45'	ND
	ORANGE-68'	ND
	RED - 90'	ND
P	10'	1
	40'	ND
	80'	ND
P-1	120'	X
Q	10'	ND
	40'	ND
	75'	ND
Q-1	120'	ND
	158'	ND

R	10'	ND
	40'	ND
	80'	ND
	120'	ND
S	10'	ND
	40'	ND
	80'	ND
	120'	ND
T	10'	ND
	40'	ND
	73'	ND
T-1	72'	ND
U	10'	ND
	37'	3
	68'	ND
V	10'	ND
	40'	ND
	73'	ND
W	10'	ND
	40'	ND
	80'	ND
	120'	ND
	158'	ND
TSI		

STEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8887

JOB NAME: PENROSE

JOB No. 5152-6

DATE 5/12/99

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain; <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F; still, breeze, wind; dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS Surface MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Monitor began at 9:00 am and was cancelled due to a Dead battery at 9:40 am.

Calibrated FOXBORO 128 instrument.

☒ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET __ OF __

SEPICH ASSOCIATES, Inc.
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 5/15/99

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 33°-55°, 56°-70°, 71-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: weather Partly Cloudy skies. and cool Temperatures. Contractor noticed all weeds have been cut down. OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 3 days 5/12/99. Monitor began at 8:00 am and was completed at 9:15am with a result of ND. Last recorded rainfall was over 72 hours ago. Contractor followed PATH 'A'. Wind velocity was determined ND by an electronic wind speed indicator.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JS40075 4/15/92

SHEET__OF__

CONFIDENTIAI

J152-6

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 5-28-99

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS: Rm

TIME: 1-3:30pm

INSTRUMENT: Natural Gas INDICATOR

PARAMETER:

REMARKS – OVERCAST WARM/HOT WEATHER – SOUTH WIND – Began. 1:00 finished 3:30 pm.

PROBE #	
1	ND
2 A	
3 A	
4 A	
5 A	
6 A	
7 A	
8 A	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21 A	
22	
23	
24	
25	
26	

PROBE #		
	A-1	ND
	B	
C	GREEN-21'	
C	YELLOW-41'	
C	ORANGE-61'	
C	RED - 81'	
	D	
	E	
	F	
	G	
	J-1	
	K-1	
L	GREEN-45'	
L	YELLOW-65'	.7%
L	ORANGE-85'	ND
L	RED - 105'	.5%
N	GREEN-22'	
N	YELLOW-45'	
N	ORANGE-68'	
N	RED - 90'	
P	10'	
P	40'	
P	80'	
P-1	120'	
Q	10'	
Q	40'	
Q	75'	
Q-1	120'	
Q-1	158'	

R	10'	ND
R	40'	
R	80'	
R	120'	
S	10'	
S	40'	
S	80'	
S	120'	
T	10'	
T	40'	
T	73'	
T-1	72'	
U	10'	
U	37'	
U	68'	
V	10'	
V	40'	
V	73'	
W	10'	
W	40'	
W	80'	
W	120'	
W	158'	
TSI		

SEPICH ASSOCIATES, Inc.
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 6/1/99

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain; <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F; still, breeze, wind; dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: Warm weather with overcast skies. Last recorded rainfall was over 72 hours ago. Wind velocity of 1.3 to 4.5 out of the South was determined by an electronic wind speed indicator. All air samples were collected in 10-liter Tedlar bags and placed into a black bag for protection from sunlight. OVA instrument used was FOXBORO 128 last calibrated by Robert McAllister on 5/12/99. TOC instrument used was a Natural Gas Indicator model NGI-204 last calibrated by J.G. Tucker and Son on 8/7/98. H_2S levels were determined

☐ REINSPECTION REQUIRED

INSPECTOR

PRINCIPAL

KS-0075 4/15/94

SHEET __ OF __

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TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J752-6

DATE 6/1/99

REMARKS CONTINUED:

by Drager Tubes and a Drager Pump. ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/MIN.

ISS #54 was collected at 12:30 pm and tested for OVA(ND) and H_2S (ND). ISS #55 was collected at 1:45 pm and tested for H_2S (ND) and OVA (ND). PPS K was collected at 2:20 pm and tested for TOC (ND) and H_2S (ND). The TSI was collected at 10:00 am on 6/2/99 and tested for TOC (45) and H_2S (85 ppm).

Robert Mellott
INSPECTOR

PRINCIPAL

JSA0075 4/15/94

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE	6-1-99
JOB No.	J152-6

GAS CONCENTRATIONS

INITIALS	RM
TIME	
INSTRUMENT	
PARAMETER	

REMARKS: WARM - SOUTH BREEZE 1.3-4.5
OVERCAST.
ISS#54 - 12:30 pm TSI - 6/2-99 - 10:AM
ISS # 55 - 1:45 pm
PPS K - 2:20 pm

PROBE #		PROBE #		TOC	H_2S				
1		A-1				R	10'		
2 A		B					40'		
3 A		C	GREEN-21'				80'		
4 A			YELLOW-41'				120'		
5 A			ORANGE-61'			S	10'		
6 A			RED - 81'				40'		
7 A		D					80'		
8 A		E					120'		
9		F				T	10'		
10		G					40'		
11		J-1					73'		
12		K-1		ND	ND	T-1	72'		
13		L	GREEN-45'			U	10'		
14			YELLOW-65'				37'		
15			ORANGE-85'				68'		
16			RED - 105'			V	10'		
17		N	GREEN-22'				40'		
18			YELLOW-45'				73'		
19			ORANGE-68'			W	10'		
20			RED - 90'				40'		
21 A		P	10'				80'		
22			40'				120'		
23			80'				158'		
24		P-1	120'					TOC	H_2S
25		Q	10'			TSI		45%	85ppm
26			40'						
			75'					OVA	H_2S
		Q-1	120'				ISS#54	ND	ND
			158'				ISS# 55	ND	ND

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, CA 3021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIAL

STATE OF CALIFORNIA
CIWMB-56 (9/97)

Closed Facility Inspection Report

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Enforcement Agency: City of Los Angeles

FACILITY FILE NUMBER	PROGRAM CODE (LOCAL = L, STATE = S)	INSPECTION DATE (MM DD YY)	TIME IN / TIME OUT	INSPECTION TIME
19-AR-0006	L	06/02/99		

FACILITY NAME: Penrose Landfill

RECEIVED BY (OPERATOR): Mail

FACILITY LOCATION: 8300 Tujunga Avenue, Sun Valley, CA 91352

OWNER:

INSPECTOR: David Thompson

INSPECTOR SIGNATURE:

ALSO PRESENT: Robert McAllister (LA By-Products)

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 30 OF THE PUBLIC RESOURCES CODE (PRC) AND TITLE 27 CALIFORNIA CODE OF REGULATION (CCR).

THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING: V = VIOLATION A = AREA OF CONCERN NA = NOT APPLICABLE

SITES SUBJECT TO ARTICLE 2 STANDARDS

CLOSED SITES

	V	A	NA
CLOSURE PLANS			
21880 - CERTIFICATION OF CLOSURE			
21890 - REVISION OF APPROVED PLANS FOR C/PC MAINTENANCE			
RECORDS			
21130 - EMERGENCY RESPONSE PLAN			
21170 - RECORDING			
21200 - CHANGE OF OWNERSHIP			
SECURITY			
21135 - SECURITY AT CLOSED SITES			
GRADING			
21142 - FINAL GRADING			
21145 - SLOPE STABILITY			
DRAINAGE AND EROSION CONTROL			
21150 - DRAINAGE/EROSION CONTROL			
MONITORING AND CONTROL SYSTEMS			
21160 - LF GAS CONTROL/LEACHATE CONTACT			
GAS MONITORING AND CONTROL SYSTEMS			
20918 - EXEMPTIONS			
20919 - GAS CONTROLS			
20921 - GAS MONITORING/CONTROL			
20923 - MONITORING			

	V	A	NA
GAS MONITORING AND CONTROL SYSTEMS			
20925 - PERIMETER MONITORING NETWORK			
20931 - STRUCTURE MONITORING			
20932 - MONITORED PARAMETERS			
20933 - MONITORING FREQUENCY			
20934 - REPORTING			
20937 - CONTROL	X		
POSTCLOSURE			
21180 - POSTCLOSURE MAINTENANCE			
21190 - POSTCLOSURE LAND USE			
OTHER			

SITES UNDERGOING CLOSURE

	V	A	NA
21110 - TIME FRAMES FOR CLOSURE			
21137 - STRUCTURE REMOVAL			
21140 - FINAL COVER			
OTHER			

COMMENTS (USE BACK FOR ADDITIONAL SPACE)

Violation: Gas Control (20937)

Landfill gas monitoring was conducted using a Landtec GA-90 with an attached hydrocarbon filter. The instrument was field calibrated right before the inspection. Landfill gas was detected above the regulatory limit of 5 % by volume in air at perimeter probes V (15.7% at 40 feet, 13.7% at 80 feet), Q (22.6% at the red probe, 9.8% at left probe) and E (10.7%). Landfill gas was also detected at probe U (1.8% at 68 feet). The operator needs to take corrective action to prevent the off-site migration of landfill gas. The probes should be monitored on a daily basis until the landfill gas is under control.

DISTRIBUTION: TOP - CIWMB MIDDLE - EA BOTTOM - OPERATOR

CONFIDENTIAL

Ogden Power Pacific

JOB NAME: PENROSE LANDFILL

DATE: 6-8-99

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: ATF

TIME: 0950-1440

INSTRUMENT: BACHARACH GASPOINTER II

PARAMETER: % Volume*

REMARKS: * Instrument readings (≤ 5% volume (= 100% LEL)) were read on the detection meter in % LEL. % LEL readings from the field bag have been converted to % volume on this log. ND = not detectable at % LEL level.

PROBE #	
1	ND
2 A	ND
3 A	ND
4 A	ND
5 A	ND
6 A	ND
7 A	ND
8 A	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
16	ND
17	ND
18	ND
19	ND
20	ND
21 A	ND
22	ND
23	ND
24	ND
25	ND
26	ND

PROBE #			
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	
	ORANGE-61'	X	Probe missing
	RED - 81'	ND	
D		4.25	
E		3.05	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	ND	
	YELLOW-65'	ND	
	ORANGE-85'	ND	
	RED - 105'	1	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	0.55	
	40'	ND	
	80'	ND	
P-1	120'	X	Clogged
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

R	10'	ND
	40'	ND
	80'	ND
	120'	ND
S	10'	ND
	40'	ND
	80'	ND
	120'	ND
T	10'	ND
	40'	ND
	73'	ND
T-1	72'	ND
U	10'	ND
	37'	ND
	68'	1.15
V	10'	ND
	40'	4.1
	73'	2.35
W	10'	ND
	40'	0.25
	80'	0.05
	120'	ND
	158'	ND
TSI		

SLPICH ASSOCIATES, Inc. METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6

DATE 6/16/99

INSPECTION REPORT

CLIMATE: bright / clear / fog — cloudy / overcast / rain — <32° F / 33°-55° / 56°-70° — 71°-85° / 86°-100° / >100° F — still / breeze / wind — dry / moderate / humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Last recorded rainfall was over 72 hours ago. Wind velocity was determined by an electronic wind speed indicator ND. OVA instrument used was a FOXBORO 128 last calibrated by ROBERT McAllister on 6/16/99 at 8:00 am. Monitor began at 8:15 am and was completed at 9:40 am with a result of ND. Contractor followed PATH 'B'.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JS-0075 4/15/94

SHEET ___ OF ___

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 6/28/99

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain

<32° F / 71°-85° / 33°-55° / 88°-100° / 56°-70° / >100° F

still / breeze / wind

dry / moderate / humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Slight South wind at .8 to 1.3 mph velocity determined by an electronic wind speed indicator. Last recorded rainfall was over 72 hours ago. All air samples were collected in 10-liter Tedlar bags and placed into a Black bag for protection from sunlight. The OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 6/16/99. The TOC instrument used was a Natural Gas Indicator model np/-204 last calibrated by J.G. Tucker and Son on 8/7/98. H_2S levels were detected by Drager Tubes and a Drager Pump.

☐ REINSPECTION REQUIRED

INSPECTOR

PRINCIPAL

ISA0075 4/15/94

SHEET__OF__

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6
DATE 6/28/99

REMARKS CONTINUED:

ISS were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min. The weather was Hot and OVERCAST CLOUDS burned off.

ISS #56 was collected at 8:45 am and tested for OVA (ND) and H_2S (ND). ISS #57 was collected at 9:30 am and tested for H_2S (ND) and OVA (ND). The TSI was collected at 12:30 pm and tested TOC (41%) and H_2S (85 ppm). PPS Q 10' was collected at 1:15 pm and tested for TOC (ND) and H_2S (ND). PPS Q 40' was collected at 1:50 pm and tested TOC (ND) and H_2S (ND). PPS V 80' was collected at 2:20 pm and tested TOC (.6%) and H_2S (ND). PPS V 40' was collected at 3:00 pm and tested TOC (.7%) and H_2S (ND). PPS E was collected at 12:45 pm and tested TOC (ND) and H_2S (ND).

ISS samples were collected with a portable self-contained unit with its own internal power supply, which collect

Robert an alisto
INSPECTOR

PRINCIPAL

ISA0075 8/15/94

SHEET __ OF __

Los Angeles By-Products Co.
incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE	6-28-99
JOB No.	J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS HGT / overcast burned OFF
TIME	.8 - 1.3 mph South wind
INSTRUMENT	ISS #56 - 8:45 am Q 10' - 1:15 pm V 40' - 3:00 pm
	ISS #57 - 9:30 am Q 40' - 1:50 pm E - 12:45 pm
PARAMETER	TSI - 12:30 pm V 80' - 2:20 pm

PROBE #		PROBE #		TOC	H_2S			TOC	H_2S
1		A-1				R	10'		
2 A		B					40'		
3 A		C	GREEN-21'				80'		
4 A			YELLOW-41'				120'		
5 A			ORANGE-61'			S	10'		
6 A			RED - 81'				40'		
7 A		D					80'		
8 A		E		ND	ND		120'		
9		F				T	10'		
10		G					40'		
11		J-1					73'		
12		K-1				T-1	72'		
13		L	GREEN-45'			U	10'		
14			YELLOW-65'				37'		
15			ORANGE-85'				68'		
16			RED - 105'			V	10'		
17		N	GREEN-22'				40'	.7%	ND
18			YELLOW-45'				73'	.6%	ND
19			ORANGE-68'			W	10'		
20			RED - 90'				40'		
21 A		P	10'				80'		
22			40'				120'		
23			80'				156'		
24		P-1	120'						
25		Q	10'	ND	ND	TSI		4%	85ppm
26			40'	ND	ND				
			76'					H_2S	OVA
		Q-1	120'				ISS #56	ND	ND
			158'				ISS #57	ND	ND

SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 620 WALNUT STREET MOORPARK, CA 93021 TEL (818)707-3036 FAX (818)707-3012

J152-6

Los Angeles By-Products Co.
Incorporated 1925
444 IRVING DR. SUITE #101 BURBANK CA 91504
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 6-29-99

JOB No.: J-152-6

GAS CONCENTRATIONS

INITIALS	RM
TIME	2-4:20 pm.
INSTRUMENT	Natural Gas Indicator
PARAMETER	

REMARKS: Began 2:00 pm finished at 4:20 pm

PROBE #	
1	ND
2 A	
3 A	
4 A	
5 A	
6 A	
7 A	
8 A	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21 A	
22	
23	
24	
25	
26	

PROBE #			
A-1		ND	
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED - 81'		
D			
E			
F			
G			
J-1			
K-1			
L	GREEN-45'		
	YELLOW-65'	.1%	
	ORANGE-85'	ND	
	RED - 105'	.3%	
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED - 90'		
P	10'	.4%	
	40'	ND	
	80'		
P-1	120'		
Q	10'	ND	
	40'	1.0%	
	75'		
Q-1	120'		
	158'		

R	10'	ND	
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
TSI			

METHANE SPECIALISTS 680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

REV 2-22-99

EXHIBIT D

Laboratory Analytical Results - Second Quarter, 1999

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504		Date Sampled: Date Received: Date Analyzed:	04/26/99 04/27/99 04/28/99
Attn: Robert McAllister RE: Penrose Landfill /J152-6		Work Order No.: Method: Page 1 of 2	99-04-0779 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #52		
Methane	2	1
TGNMO	2	1
Sample Number: ISS #53		
Methane	2	1
TGNMO	2	1
Sample Number: PPS P 40'		
Methane	4	1
TGNMO	9	1
Sample Number: TSI		
Oxygen plus Argon	0.9*	0.1
Nitrogen	19.4*	0.1
Methane	41.1*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	38.6*	0.1
TGNMO	1290	1

* Result reported in percent (%) by volume.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Sampled: 04/26/99
Date Received: 04/27/99
Date Analyzed: 04/28/99

Attn: Robert McAllister
RE: Penrose Landfill /J152-6

Work Order No.: 99-04-0779
Method: SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1

QA/QC

Laboratory Control Sample (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen	19.1*	19.1*	0	0 - 25
Nitrogen	18.9*	19.0*	0	0 - 25
Carbon Dioxide	5.3*	5.3*	0	0 - 25
Methane	109	109	0	0 - 25
Carbon Monoxide	101	94	7	0 - 25
TGNMO	324	324	0	0 - 25

* Result reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 04/27/99
Work Order No: 99-04-0779
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill /J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS #52	99-04-0779-1	04/26/99	Air	N/A	04/28/99	K990428A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	12.7	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	0.8	0.5	1		ppb (v/v)
Methylene Chloride	2.1	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	5.2	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

ISS# 53	99-04-0779-2	04/26/99	Air	N/A	04/28/99	K990428A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	10.4	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	0.7	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	4.5	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	0.5	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

PPS P 40'	99-04-0779-3	04/26/99	Air	N/A	04/29/99	K990428A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.0	4		ppb (v/v)	Toluene	9.4	2.0	4		ppb (v/v)
Acetonitrile	ND	4.0	4		ppb (v/v)	Trichloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethene	ND	2.0	4		ppb (v/v)	Tetrachloroethene	20.2	2.0	4		ppb (v/v)
Methylene Chloride	ND	8.0	4		ppb (v/v)	Chlorobenzene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethane	ND	2.0	4		ppb (v/v)	Xylenes (total)	ND	6.0	4		ppb (v/v)
Chloroform	5.7	2.0	4		ppb (v/v)	Benzyl Chloride	ND	2.0	4		ppb (v/v)
1,2-Dichloroethane	ND	2.0	4		ppb (v/v)	1,3-Dichlorobenzene	ND	2.0	4		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0	4		ppb (v/v)	1,4-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Benzene	ND	2.0	4		ppb (v/v)	1,2-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Carbon Tetrachloride	ND	2.0	4		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 04/27/9
Work Order No: 99-04-077
Preparation: N/
Method: EPA TO-1

Project: Penrose Landfill /J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	99-04-0779-4	04/26/99	Air	N/A	04/28/99	K990428A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	260	160	320		ppb (v/v)	Toluene	9350	160	320		ppb (v/v)
Acetonitrile	9070	320	320		ppb (v/v)	Trichloroethene	ND	160	320		ppb (v/v)
1,1-Dichloroethene	ND	160	320		ppb (v/v)	Tetrachloroethene	190	160	320		ppb (v/v)
Methylene Chloride	ND	640	320		ppb (v/v)	Chlorobenzene	650	160	320		ppb (v/v)
1,1-Dichloroethane	ND	160	320		ppb (v/v)	Xylenes (total)	10300	480	320		ppb (v/v)
Chloroform	ND	160	320		ppb (v/v)	Benzyl Chloride	ND	160	320		ppb (v/v)
1,2-Dichloroethane	ND	160	320		ppb (v/v)	1,3-Dichlorobenzene	ND	160	320		ppb (v/v)
1,1,1-Trichloroethane	ND	160	320		ppb (v/v)	1,4-Dichlorobenzene	450	160	320		ppb (v/v)
Benzene	1330	160	320		ppb (v/v)	1,2-Dichlorobenzene	ND	160	320		ppb (v/v)
Carbon Tetrachloride	ND	160	320		ppb (v/v)						

Method Blank	095-01-021-691	N/A	Air	N/A	04/28/99	K990428A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	ND	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill /J152-6

Date Received: 04/27/9
Work Order No: 99-04-077
Preparation: N/
Method: EPA TO-1

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-691	Air	GC/MS E	N/A	04/28/99	K990428A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	98	99	60-140	1	0-30	
1,2-Dichloroethane	100	100	60-140	1	0-30	
Benzene	95	96	60-140	1	0-30	
Carbon Tetrachloride	93	93	60-140	0	0-30	
Trichloroethene	97	98	60-140	2	0-30	
Tetrachloroethene	98	99	60-140	1	0-30	
1,4-Dichlorobenzene	108	107	60-140	0	0-30	
1,2-Dichlorobenzene	109	110	60-140	1	0-30	

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GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 99-06-0073

Qualifier	Definition
D	The sample data was reported from a diluted analysis.
ND	Not detected at indicated reporting limit.

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0779

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	04/26/99

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
J152-6	4/26/99	9:15 AM	C	1	ISS # 52	✓	✓		✓					
J152-6	4/26/99	9:45 AM	C	1	ISS # 53	✓	✓		✓					
J152-6	4/26/99	10:45 AM	G	1	PPS P 40'	✓	✓							
J152-6	4/26/99	11:30 AM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	4/27/99	0940
RECEIVED BY:	[illegible]	Lab	4/27/99	0940
RELINQUISHED BY:	[illegible]	CALS.	4/27	1205
RECEIVED BY:	[illegible]	CALS	4/27	1205
RELINQUISHED BY:	[illegible]	CALS	4/27/99	1335
RECEIVED BY:	[illegible]	Calscience	4/27/99	135

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504		Date Sampled: Date Received: Date Analyzed:	06/01-02/99 06/03/99 06/03-04/99
Attn: Robert McAllister RE: Penrose Landfill/J152-6		Work Order No.: Method: Page 1 of 2	99-06-0073 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #54		
Methane	2	1
TGNMO	3	1
Sample Number: ISS #55		
Methane	30	1
TGNMO	3	1
Sample Number: PPS K		
Methane	1	1
TGNMO	4	1
Sample Number: TSI		
Oxygen plus Argon	1.1*	0.1
Nitrogen	19.9*	0.1
Methane	43.6*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	35.5*	0.1
TGNMO	850	1

*Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	06/01-02/99 06/03/99 06/03-04/99
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 2 of 2	99-06-0073 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1

*Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1

L.A. By Products/Sepich Associates, Inc. | Work Order No.: 99-06-0073

 | Date Analyzed: 06/03-04/99

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Oxygen plus Argon	96	96	80 - 120	0	0 - 20
Nitrogen	95	95	80 - 120	0	0 - 20
Carbon Dioxide	96	96	80 - 120	0	0 - 20
Methane	106	106	80 - 120	0	0 - 20
Carbon Monoxide	89	88	80 - 120	1	0 - 20
TGNMO (as Methane)	90	91	80 - 120	1	0 - 20

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Oxygen plus Argon	96	96	80 - 120	0	0 - 20
Nitrogen	95	96	80 - 120	1	0 - 20
Carbon Dioxide	96	96	80 - 120	0	0 - 20
Methane	106	106	80 - 120	0	0 - 20
Carbon Monoxide	89	89	80 - 120	0	0 - 20
TGNMO (as Methane)	90	91	80 - 120	1	0 - 20

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 06/03/99
Work Order No: 99-06-0073
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill/J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS #54	99-06-0073-1	06/01/99	Air	N/A	06/04/99	K990604A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	22.0	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	4.0	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

ISS #55	99-06-0073-2	06/01/99	Air	N/A	06/04/99	K990604A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	6.9	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

PPS K	99-06-0073-3	06/01/99	Air	N/A	06/04/99	K990604A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	7.1	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 06/03/99
Work Order No: 99-06-0073
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill/J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	**99-06-0073-4**	**06/02/99**	**Air**	**N/A**	**06/04/99**	**K990604A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	242	20	40		ppb (v/v)	Toluene	7070	100	200	D	ppb (v/v)
Acetonitrile	ND	40	40		ppb (v/v)	Trichloroethene	105	20	40		ppb (v/v)
1,1-Dichloroethene	ND	20	40		ppb (v/v)	Tetrachloroethene	116	20	40		ppb (v/v)
Methylene Chloride	ND	80	40		ppb (v/v)	Chlorobenzene	701	20	40		ppb (v/v)
1,1-Dichloroethane	ND	20	40		ppb (v/v)	Xylenes (total)	7920	300	200	D	ppb (v/v)
Chloroform	ND	20	40		ppb (v/v)	Benzyl Chloride	ND	20	40		ppb (v/v)
1,2-Dichloroethane	ND	20	40		ppb (v/v)	1,3-Dichlorobenzene	20	20	40		ppb (v/v)
1,1,1-Trichloroethane	ND	20	40		ppb (v/v)	1,4-Dichlorobenzene	540	20	40		ppb (v/v)
Benzene	1270	20	40		ppb (v/v)	1,2-Dichlorobenzene	145	20	40		ppb (v/v)
Carbon Tetrachloride	ND	20	40		ppb (v/v)						

Method Blank	**095-01-021-714**	**N/A**	**Air**	**N/A**	**06/04/99**	**K990604A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	ND	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill/J152-6

Date Received:	06/03/99
Work Order No:	99-06-0073
Preparation:	N/A
Method:	EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-714	Air	GC/MS E	N/A	06/04/99	K990604A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	84	84	60-140	0	0-30	
1,2-Dichloroethane	96	96	60-140	1	0-30	
Benzene	96	97	60-140	0	0-30	
Carbon Tetrachloride	107	105	60-140	2	0-30	
Trichloroethene	91	90	60-140	2	0-30	
Tetrachloroethene	92	91	60-140	1	0-30	
1,4-Dichlorobenzene	113	113	60-140	1	0-30	
1,2-Dichlorobenzene	118	118	60-140	1	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	6-1-99

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4			FIXED GAS		TOC	REMARKS
J152 6	6-1 99	12:30 PM	C	1	ISS #54	✓	✓	✓						
J152 6	6-1 99	1:45 PM	C	1	ISS #55	✓	✓	✓						
J152 6	6-1 99	2:20 PM	G	1	PPS K	✓	✓							
J152 6	6-2 99	10:00 AM	G	1	TSI	✓	✓				✓			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	[illegible]	LABYPRO	6-3-99	1315
RECEIVED BY:	[illegible]	CALSCIENCE	6/3/99	1315
RELINQUISHED BY:	[illegible]	CALSC	6/3	1425
RECEIVED BY:	[illegible]	CALSC.	6/3/99	1425
RELINQUISHED BY:				
RECEIVED BY:				

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	06/28/99
444 Irvine Drive, Suite 101	Date Received:	06/29/99
Burbank, CA 91504	Date Analyzed:	07/01/99
	Work Order No.:	99-06-0781
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill / J152-6	Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #56		
Methane	2	1
TGNMO	6	1
Sample Number: ISS #57		
Methane	2	1
TGNMO	7	1
Sample Number: TSI		
Oxygen plus Argon	0.9*	0.1
Nitrogen	20.6*	0.1
Methane	41.5*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	37.0*	0.1
TGNMO	928	1
Sample Number: Q 10'		
Methane	ND	1
TGNMO	6	1

* Result reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irvine Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	06/28/99 06/29/99 07/01/99
Attn: Robert McAllister RE: Penrose Landfill / J152-6	Work Order No.: Method: Page 2 of 3	99-06-0781 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: Q 40'		
Methane	ND	1
TGNMO	11	1
Sample Number: V 80'		
Methane	0.6*	0.1
TGNMO	21	1
Sample Number: V 40'		
Methane	0.6*	0.1
TGNMO	22	1
Sample Number: E		
Methane	3	1
TGNMO	5	1

* Result reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	06/28/99
444 Irvine Drive, Suite 101	Date Received:	06/29/99
Burbank, CA 91504	Date Analyzed:	07/01/99
	Work Order No.:	99-06-0781
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill / J152-6	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1

* Result repoted in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience
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Laboratories, Inc.

QUALITY ASSURANCE SUMMARY

Method SCAQMD 25.1

L.A. By Products/Sepich Associates, Inc. | Work Order No.: 99-06-0781
Page 1 of 1 | Date Analyzed: 07/01/99

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Oxygen plus Argon	96	96	80 - 120	0	0 - 20
Nitrogen	95	96	80 - 120	1	0 - 20
Carbon Dioxide	104	104	80 - 120	0	0 - 20
Methane	107	107	80 - 120	0	0 - 20
Carbon Monoxide	97	97	80 - 120	0	0 - 20
TGNMO (as Methane)	100	101	80 - 120	1	0 - 20

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 06/29/99
Work Order No: 99-06-0781
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS # 56	99-06-0781-1	06/28/99	Air	N/A	06/30/99	K990630A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	3.3	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	1.9	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	0.97	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

ISS# 57	99-06-0781-2	06/28/99	Air	N/A	06/30/99	K990630A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	3.3	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	2.1	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	1.8	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	0.94	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

TSI	99-06-0781-3	06/28/99	Air	N/A	06/30/99	990630A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	210	101	202		ppb (v/v)	Toluene	7800	101	202		ppb (v/v)
Acetonitrile	ND	200	202		ppb (v/v)	Trichloroethene	ND	100	202		ppb (v/v)
1,1-Dichloroethene	270	101	202		ppb (v/v)	Tetrachloroethene	ND	100	202		ppb (v/v)
Methylene Chloride	890	404	202		ppb (v/v)	Chlorobenzene	500	101	202		ppb (v/v)
1,1-Dichloroethane	ND	100	202		ppb (v/v)	Xylenes (total)	7700	303	202		ppb (v/v)
Chloroform	ND	100	202		ppb (v/v)	Benzyl Chloride	ND	100	202		ppb (v/v)
1,2-Dichloroethane	ND	100	202		ppb (v/v)	1,3-Dichlorobenzene	ND	100	202		ppb (v/v)
1,1,1-Trichloroethane	ND	100	202		ppb (v/v)	1,4-Dichlorobenzene	170	101	202		ppb (v/v)
Benzene	1100	101	202		ppb (v/v)	1,2-Dichlorobenzene	ND	100	202		ppb (v/v)
Carbon Tetrachloride	ND	100	202		ppb (v/v)						

000822

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 06/29/99
Work Order No: 99-06-0781
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Q 10'	99-06-0781-4	06/28/99	Air	N/A	06/30/99	K990630A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	2.5	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	1.0	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	11	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	0.64	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

Q 40'	99-06-0781-5	06/28/99	Air	N/A	07/01/99	990701A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.0	4		ppb (v/v)	Toluene	ND	2.0	4		ppb (v/v)
Acetonitrile	ND	4.0	4		ppb (v/v)	Trichloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethene	ND	2.0	4		ppb (v/v)	Tetrachloroethene	ND	2.0	4		ppb (v/v)
Methylene Chloride	ND	8.0	4		ppb (v/v)	Chlorobenzene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethane	ND	2.0	4		ppb (v/v)	Xylenes (total)	ND	6.0	4		ppb (v/v)
Chloroform	ND	2.0	4		ppb (v/v)	Benzyl Chloride	ND	2.0	4		ppb (v/v)
1,2-Dichloroethane	ND	2.0	4		ppb (v/v)	1,3-Dichlorobenzene	ND	2.0	4		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0	4		ppb (v/v)	1,4-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Benzene	ND	2.0	4		ppb (v/v)	1,2-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Carbon Tetrachloride	ND	2.0	4		ppb (v/v)						

V 80'	99-06-0781-6	06/28/99	Air	N/A	07/01/99	990701A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.0	4		ppb (v/v)	Toluene	ND	2.0	4		ppb (v/v)
Acetonitrile	ND	4.0	4		ppb (v/v)	Trichloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethene	ND	2.0	4		ppb (v/v)	Tetrachloroethene	5.9	2.0	4		ppb (v/v)
Methylene Chloride	ND	8.0	4		ppb (v/v)	Chlorobenzene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethane	5.5	2.0	4		ppb (v/v)	Xylenes (total)	ND	6.0	4		ppb (v/v)
Chloroform	ND	2.0	4		ppb (v/v)	Benzyl Chloride	ND	2.0	4		ppb (v/v)
1,2-Dichloroethane	ND	2.0	4		ppb (v/v)	1,3-Dichlorobenzene	ND	2.0	4		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0	4		ppb (v/v)	1,4-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Benzene	ND	2.0	4		ppb (v/v)	1,2-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Carbon Tetrachloride	ND	2.0	4		ppb (v/v)						

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RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 06/29/99
Work Order No: 99-06-0781
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
V 40'	**99-06-0781-7**	**06/28/99**	**Air**	**N/A**	**07/01/99**	**990701A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	2.0	4		ppb (v/v)	Toluene	2.2	2.0	4		ppb (v/v)
Acetonitrile	ND	4.0	4		ppb (v/v)	Trichloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethene	ND	2.0	4		ppb (v/v)	Tetrachloroethene	7.0	2.0	4		ppb (v/v)
Methylene Chloride	ND	8.0	4		ppb (v/v)	Chlorobenzene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethane	2.8	2.0	4		ppb (v/v)	Xylenes (total)	ND	6.0	4		ppb (v/v)
Chloroform	ND	2.0	4		ppb (v/v)	Benzyl Chloride	ND	2.0	4		ppb (v/v)
1,2-Dichloroethane	ND	2.0	4		ppb (v/v)	1,3-Dichlorobenzene	ND	2.0	4		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0	4		ppb (v/v)	1,4-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Benzene	ND	2.0	4		ppb (v/v)	1,2-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Carbon Tetrachloride	ND	2.0	4		ppb (v/v)						

E	**99-06-0781-8**	**06/28/99**	**Air**	**N/A**	**06/30/99**	**990630A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	4.4	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	2.2	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	1.7	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

Method Blank	**095-01-021-734**	**N/A**	**Air**	**N/A**	**07/01/99**	**990701A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	ND	0.50	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

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RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 06/29/99
Work Order No: 99-06-0781
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
Method Blank	**095-01-021-735**	**N/A**	**Air**	**N/A**	**06/30/99**	**990630A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	ND	0.50	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

Method Blank	**095-01-021-736**	**N/A**	**Air**	**N/A**	**06/30/99**	**K990630A**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.50	1		ppb (v/v)	Toluene	ND	0.50	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethene	ND	0.50	1		ppb (v/v)	Tetrachloroethene	ND	0.50	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.50	1		ppb (v/v)
1,1-Dichloroethane	ND	0.50	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.50	1		ppb (v/v)	Benzyl Chloride	ND	0.50	1		ppb (v/v)
1,2-Dichloroethane	ND	0.50	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.50	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.50	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Benzene	ND	0.50	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.50	1		ppb (v/v)
Carbon Tetrachloride	ND	0.50	1		ppb (v/v)						

000825

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 06/29/9
Work Order No: 99-06-078
Preparation: N/
Method: EPA TO-1

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-735	Air	GC/MS E	N/A	06/30/99	990630A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	90	91	60-140	1	0-30	
1,2-Dichloroethane	107	107	60-140	1	0-30	
Benzene	110	109	60-140	1	0-30	
Carbon Tetrachloride	108	106	60-140	2	0-30	
Trichloroethene	107	106	60-140	1	0-30	
Tetrachloroethene	108	105	60-140	3	0-30	
1,4-Dichlorobenzene	109	119	60-140	9	0-30	
1,2-Dichlorobenzene	107	110	60-140	3	0-30	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 06/29/99
Work Order No: 99-06-0781
Preparation: N/A
Method: EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-734	Air	GC/MS E	N/A	07/01/99	990701A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	88	90	60-140	2	0-30	
1,2-Dichloroethane	106	106	60-140	0	0-30	
Benzene	110	110	60-140	0	0-30	
Carbon Tetrachloride	109	108	60-140	1	0-30	
Trichloroethene	107	106	60-140	0	0-30	
Tetrachloroethene	106	105	60-140	1	0-30	
1,4-Dichlorobenzene	122	117	60-140	4	0-30	
1,2-Dichlorobenzene	117	123	60-140	5	0-30	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received:	06/29/99
Work Order No:	99-06-0781
Preparation:	N/A
Method:	EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-736	Air	GC/MS E	N/A	06/30/99	K990630A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	105	101	60-140	4	0-30	
1,2-Dichloroethane	108	106	60-140	2	0-30	
Benzene	106	105	60-140	1	0-30	
Carbon Tetrachloride	102	100	60-140	2	0-30	
Trichloroethene	101	99	60-140	2	0-30	
Tetrachloroethene	103	100	60-140	3	0-30	
1,4-Dichlorobenzene	116	115	60-140	1	0-30	
1,2-Dichlorobenzene	118	118	60-140	1	0-30	

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(781)

JOB NAME: PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES

FILE (JOB#): J152-6

DATE: 6-28-[illegible]

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4			Fixed Gas		TOC	REMARKS
J152-6	6-28-99	8:45 AM	C	1	ISS # 56	✓	✓	✓						
J152-6	6-28-99	9:30 AM	C	1	ISS # 57	✓	✓	✓						
J152-6	6-28-99	12:30 pm	G	1	TSI	✓	✓				✓			
J152-6	6-28-99	1:15 pm	G	1	Q 10'	✓	✓							
J152-6	6-28-99	1:50 pm	G	1	Q 40'	✓	✓							
J152-6	6-28-99	2:20 pm	G	1	V 80'	✓	✓							
J152-6	6-28-99	3:00 pm	G	1	V 40'	✓	✓							
J152-6	6-28-99	12:45 pm	G	1	E	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABIPRO		
RECEIVED BY:	[illegible]	Cal Science	6/29/99	1240
RELINQUISHED BY:	[illegible]	Cal Science	6/29/99	1400
RECEIVED BY:	[illegible]	CONSCIENCE	6/29/99	1400
RELINQUISHED BY:				
RECEIVED BY:				

0002

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
and METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

TEL (818) 707-3036
(805) 552-0000
FAX (818) 707-3012
(805) 552-0001

April 21, 1999

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for First Quarter, 1999
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the twenty second quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period January through March 1999. In compliance with the SCAQMD Rule 1150. permit, this quarterly report contains information required on an annual bases (see Section A.6 of this report).

Monitoring and sampling for this report was performed on January 8, 13, 29, and 30, February 12, 15, and 26, and March 4, 8, 16, 29, and 31, 1999.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989, the Guidelines were incorporated into the amended Rule 1150.1 on April 10, 1998) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products (LABP) was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe monitoring (PPM) and sampling (PPS), integrated surface sampling (ISS), instantaneous surface monitoring (ISM), ambient air sampling, and plant inlet (TSI, for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Ambient air sampling requirements are not included in the routine quarterly monitoring for Penrose. Per Rule 1150.1 simultaneous source tests at the inlet and outlet of the gas disposal system are done at Penrose on an annual basis, and reported in the next quarterly report after data is available.

On April 10, 1998 SCAQMD approved an amended version of Rule 1150.1: Control of Gaseous Emissions from Municipal Solid Waste (MSW) Landfill. The amended Rule required that owners of all MSW landfills within the district submit a statement of intent to comply with the amended Rule within 90 days of the amendment date. On July 10, 1998, Sepich Associates/Methane Specialists prepared and submitted a revised compliance plan to SCAQMD for the Los Angeles By-Products Company. Per § (k) of the amended Rule the submittal for Penrose LF contains exemptions subject to SCAQMD approval. The previous

compliance plan will be in effect until SCAQMD approval of the revised plan is received. SCAQMD approval had not yet been received at the time of submittal of this report.

The application submitted by Los Angeles By-Products Company for Penrose LF for the new amended Rule includes changes from the old Rule. When SCAQMD approves, or requests changes in the submitted application for the amended Rule, the text in the quarterly reports will be changed to reflect the organization and terminology used to reflect our compliance to SCAQMD's requests.

A.1 *Subsurface Refuse Boundary Probe Monitoring (Attachment A, 1.2)*

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

1.2.1: If the TOC concentrations *measured with the FID does not exceed 5% by volume in any of the probes, collect one bag sample from one probe with the highest concentration, or*

1.2.2: If the TOC concentration *measured with the FID exceeds 5% by volume, collect one bag sample per probe from the probes with the highest concentrations above 5% by volume, from at least five probes.*

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.
2. Types and weights of waste materials deposited in the reporting year.
3. Total amount of waste materials deposited to date.
4. Contour map showing updated landfill boundary.
5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.
6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, January through March 1999, field monitoring was conducted on January 8, 13, 29, and 30, February 12, 15, and 26, and March 4, 8, 16, 29, and 31, 1999. Samples were collected for laboratory analysis on January 29, March 4, and March 31, 1999 (see Exhibit C for field documentation and Exhibit D for laboratory results).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on January 13, February 15, and March 16, 1999 was conducted by Sepich Associates/Methane Specialists personnel using a Bacharach HPK Combustible Gas Detector. Perimeter probe monitoring on January 30, February 26, and March 29, 1999 was conducted by LABP personnel using a GasTech Natural Gas Indicator Model NPL-204. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California. Method SCAQMD 25.1 analyses of samples collected in January were performed by Advanced Technology Laboratories in Signal Hills, California, and samples collected in March were analyzed for SCAQMD 25.1 by Performance Analytical Inc. in Simi Valley, California.

Perimeter probe sampling was conducted at Probes U (37') on January 29, at Probe L (105') on March 4, and at Probe U (37') on March 31, 1999. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on January 29, March 4, and March 31, 1999. On January 29 Areas 46 and 47 were sampled (see Integrated Surface Sampling Map in Exhibits A and C); on March 4, Areas 48 and 49 were sampled; and on March 31, Areas 50 and 51 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. All ISS field monitoring results for the First Quarter TOC and H_2S concentrations were non-detect. Laboratory results are summarized in Table IV.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path A was traversed on January 8, and March 8, 1999. Path B was traversed on February 12, 1999. In January, February, and March no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Ogden Power Pacific, Inc. electrical generation plant inlet pipeline on January 29, March 4, and March 31, 1999. TOC was monitored with a GasTech Natural Gas Meter, Model NPL-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were last collected on August 22, 1997 and results of inlet analyses were reported in the third and fourth quarter 1997 reports.

B.6 Reporting Requirements

This is the twenty second in a series of quarterly reports and the first quarterly report for Penrose Landfill for 1999. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Sepich Associates/Methane Specialists and LABP. The early (to mid-) month data is usually used to select the monthly probe sampling stations and the (mid to) late-month monitoring is used to fulfill any required follow-up probe monitoring. If gas is detected by agency inspectors their findings may influence the selection of probe sampling stations. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are attached in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

Perimeter probe monitoring on January 13, 1999 detected TOC of 4% at 37' from Probe U. Mitigation measures were implemented and on January 29, 1999, perimeter probe monitoring resulted in a non-detect reading at that probe. On January 29, 1999, Probe U (@ 37') was sampled (this sample was inadvertently allowed to exceed the holding time, see Table I). Probe U at 37' read non-detect TOC on January 29 and 30.

Table I - January 1999
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBES SAMPLED ON January 29, 1999

Probe No.	Depth (ft)	TOC 1/13/99 (% Vol)	TOC 1/29/99 (% Vol)	Lab Results 1/29/99 (% Vol)	Follow up TOC 1/30/99 (% Vol)
U	37	4	ND	NA	ND

Note: Laboratory sample was collected 1/29/99, but exceeded holding time before it could be analyzed. Field values are volume percent TOC.

ND = None detected NA = Not Available

January 30, February 15, and February 26, 1999 perimeter probe monitoring results ranged from 1.2% to 3.5% of volume combustible gas readings at Probe L at 105'. Probe L (at the 105-foot depth) was sampled on March 4, 1999. Laboratory analytical results are presented in Table II below and in Exhibit D.

Table II - February 1999
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON March 4, 1999

Probe No.	Depth (ft)	TOC 1/30/99 (% Vol)	TOC 2/15/99 (% Vol)	TOC 2/26/99 (% Vol)	TOC 3/4/99 (% Vol)	Lab Result 3/4/99 (% Vol)	Follow up TOC 3/16/99 (% Vol)
L	105	0.6	3.5	1.2	0.8	0.755	1.3

Note: Laboratory samples were collected 3/4/99. Laboratory results are volume percent of methane. Field values are volume percent TOC.

Perimeter probe monitoring on March 29, 1999 indicated non-detect readings at all probes. On March 31, 1999, Probe U at 37' sampled (see lab results in Table III).

Table III - March 1999
SUMMARY OF FIELD TOC AND METHANE CONCENTRATIONS
FOR PERIMETER PROBE SAMPLED ON March 31, 1999

Probe No.	Depth (ft)	TOC 3/16/99 (% Vol)	TOC 3/29/99 (% Vol)	TOC 3/31/99 (% Vol)	Lab Results 3/31/99 (% Vol)	Follow-up TOC 4/14/99 (% Vol)
U	37	0.2	ND	1.6	1.97	0.8

Note: Laboratory samples were collected 3/31/99. Laboratory results are volume percent of methane. Field values are volume percent TOC. Follow-up mitigation measures quickly reduced the gas at Probe E.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. Table IV summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - First QUARTER 1999
SUMMARY of ANALYTICAL RESULTS from INTEGRATED SURFACE SAMPLES

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
1/29/99 AREA # 46	<10	<10
1/29/99 AREA # 47	40	<10
3/4/99 AREA # 48	2.7	11
3/4/99 AREA # 49	2	2.7
3/31/99 AREA # 50	1.9	<1
3/31/99 AREA # 51	1.7	<1

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the First Quarter of 1999.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 37.5% methane on January 29, 39.9% methane on March 4, and 41.4% methane on March 31, 1999. Dreager tube analytical results were 85 ppm H_2S on during all three sampling events. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling was last conducted on August 22, 1997. The analytical results from the samples collected at the plant inlet and generator exhaust, for source testing in 1997, were included in Exhibit E of the Third and Fourth Quarter 1997 Reports.

C.6 Report Requirements

This report constitutes the 1999, First Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

As a first quarter report the required annual requirements 8.2 are included below.

A. Ogden Power Pacific's power plant, located in the northeast corner of the property, had been the only facility operating on the property for the past decade. During 1998 a BMX bicycle track and accompanying modular trailer and parking were added in the northeast corner of the property, south of the power plant. Nearing completion, in the southern half of the property, is a golf driving range with accompanying clubhouse, parking, and access entries

B. No wastes materials have been deposited in the landfill during this reporting period.

C. The total material deposited in Penrose Landfill to date is estimated at 14 million tons.

D. A contour map with the landfill boundary is included in Exhibit A. Trash extends throughout the site to within 10 feet of the property line, except along the south property line where trash is approximately 50 feet north of the property line and at the corners of the site where "rounding" resulted from accommodating excavation. The contour map with recent additions sketched in is included in Exhibit E.

E. The collection system and the electrical power (disposal system) plant is operated by Ogden Power Pacific. Their records of the amount of landfill gas collected during the years 1988 through 1998 and projections are included in Exhibit E (amounts are in MMBTU).

F. Maps of the collection system and disposal (electric power plant) system are included in E above. The annual disposal rates during the years 1988 through 1998 are included in E above.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

Detections of high TOC concentrations from perimeter probes (U and E) during this reporting period triggered mitigation. Mitigation methods, including selective gas extraction from the areas of excessive landfill gas (LFG) migration, were enacted and follow-up monitoring of the same probes was performed in compliance with SCAQMD Rule 1150.1.

Major compliance endeavors enacted by Los Angeles By-Products Company and Ogden Power Pacific in the past several years include:

- Mitigation well (8 wells) program in the Spring of 1994;

- Geosynthetic clay liner (GCL) placement in Third Quarter 1995 (including changing the gas collection system); probes 2 through 8 were replaced at this time; and
- Replacement probe (A1, K1, and J1) installation in Fourth Quarter, 1995.
- Closure plan construction at clubhouse and BMX track locations in 1998 and 1999.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO.
C 37609
exp. 6-30-2000
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.622/atf

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Mr. David Thompson

California Integrated Waste Management Board

- Mr. Peter Janicke

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - First Quarter, 1999
- EXHIBIT D: Laboratory Analytical Results - First Quarter, 1999
- EXHIBIT E: Documentation for Annual Requirements

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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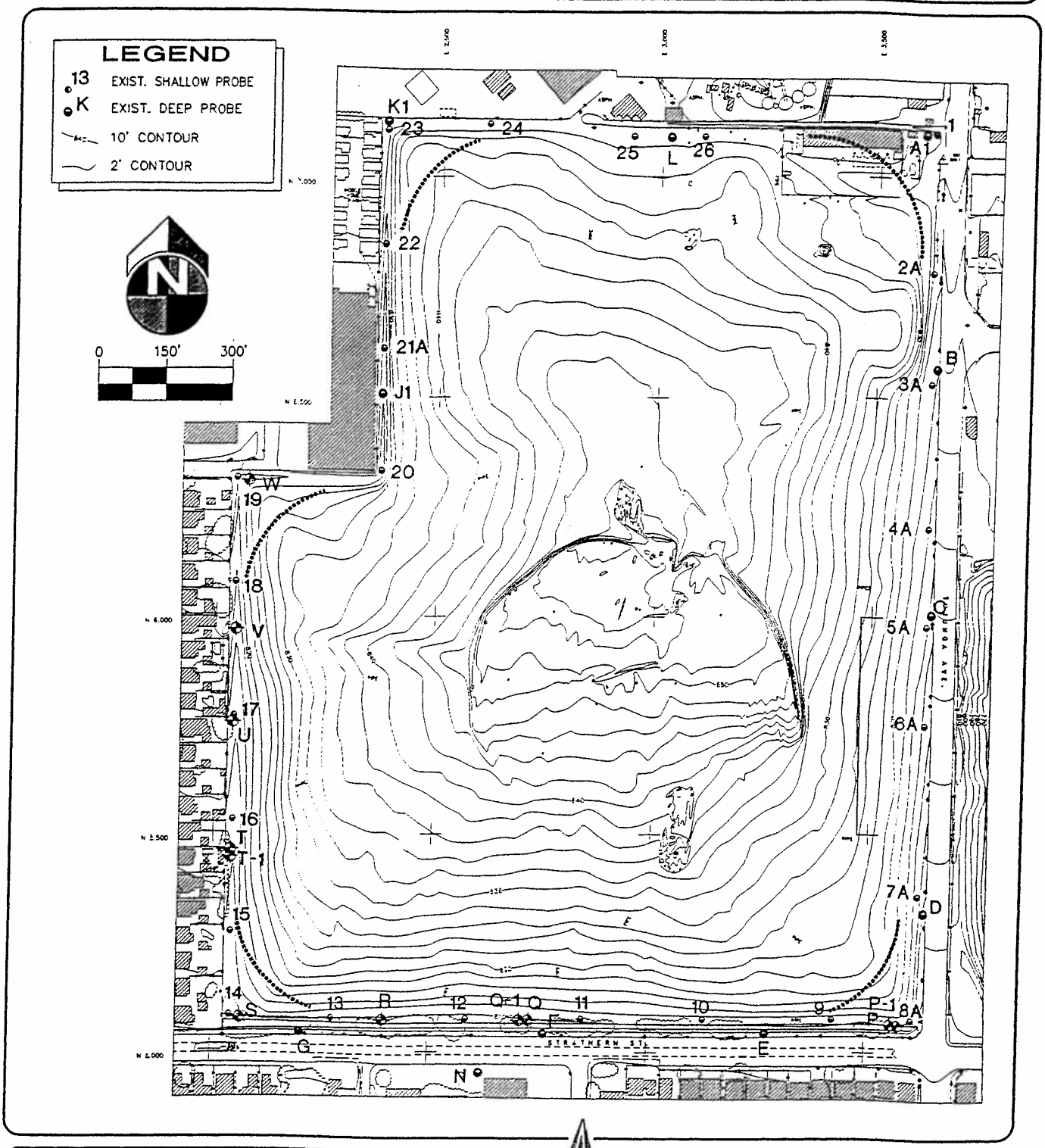
PENROSE LANDFILL MONITORING PROBE LOCATIONS



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2-22-99 J152-6PL

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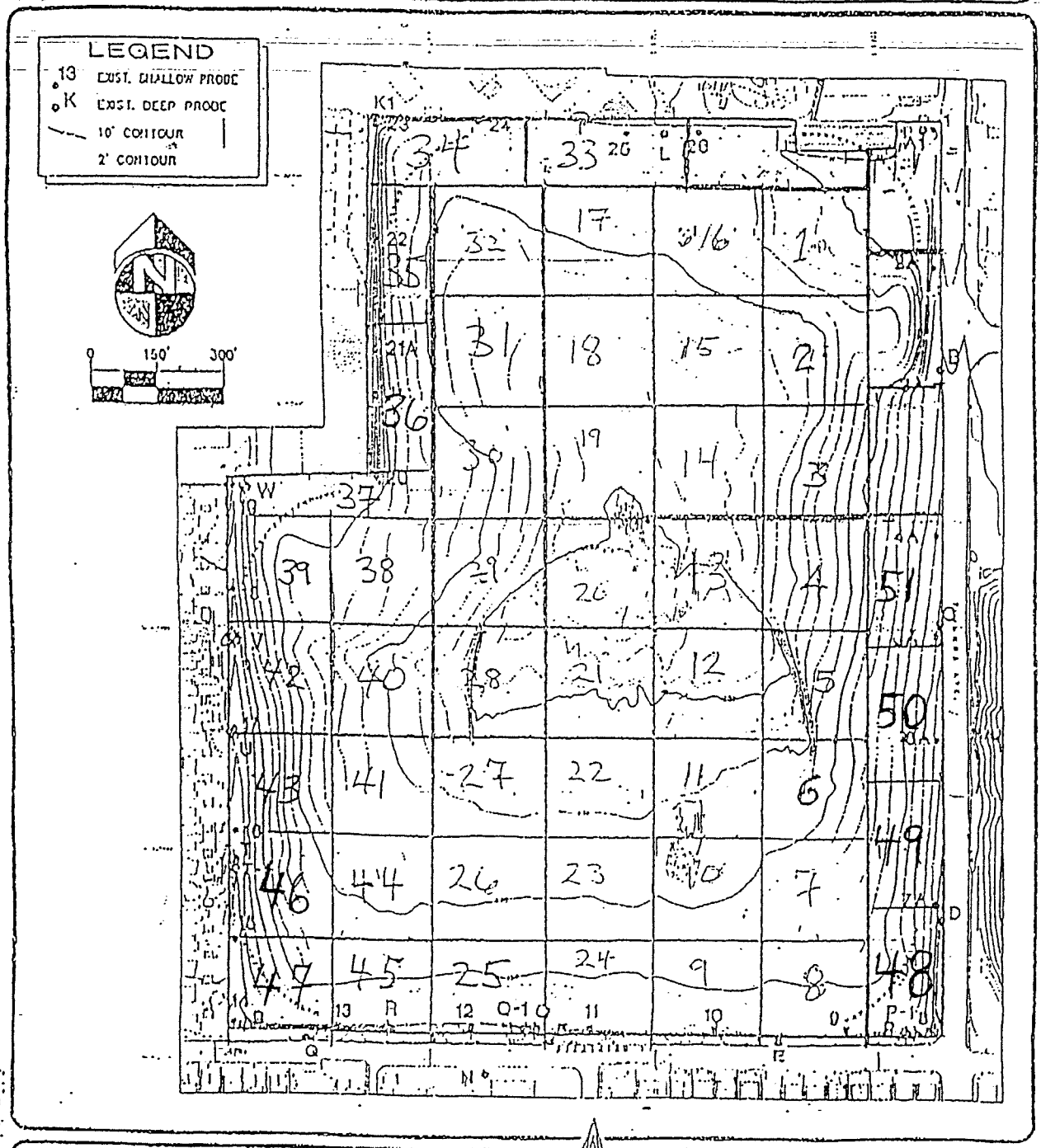
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



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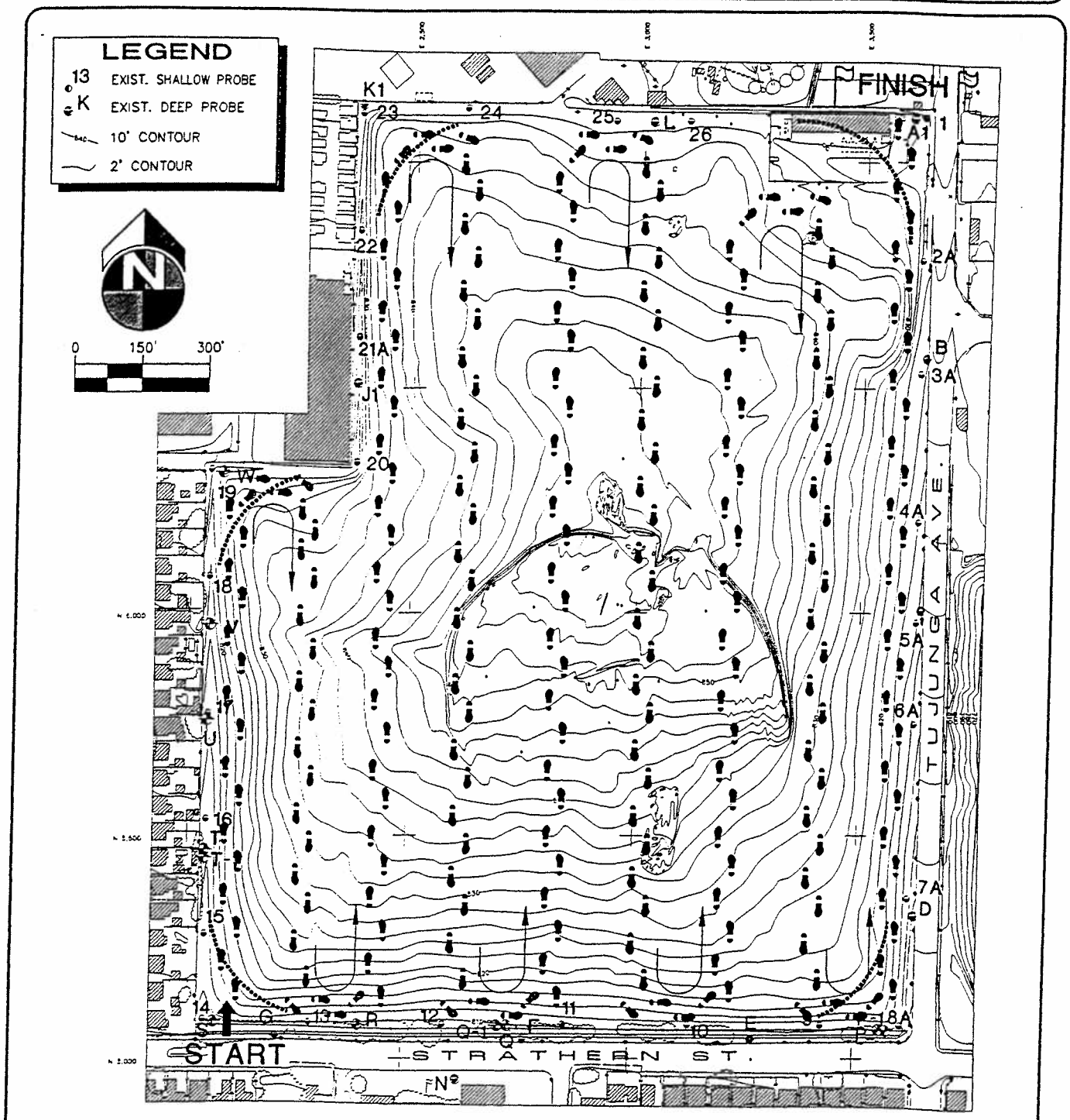
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



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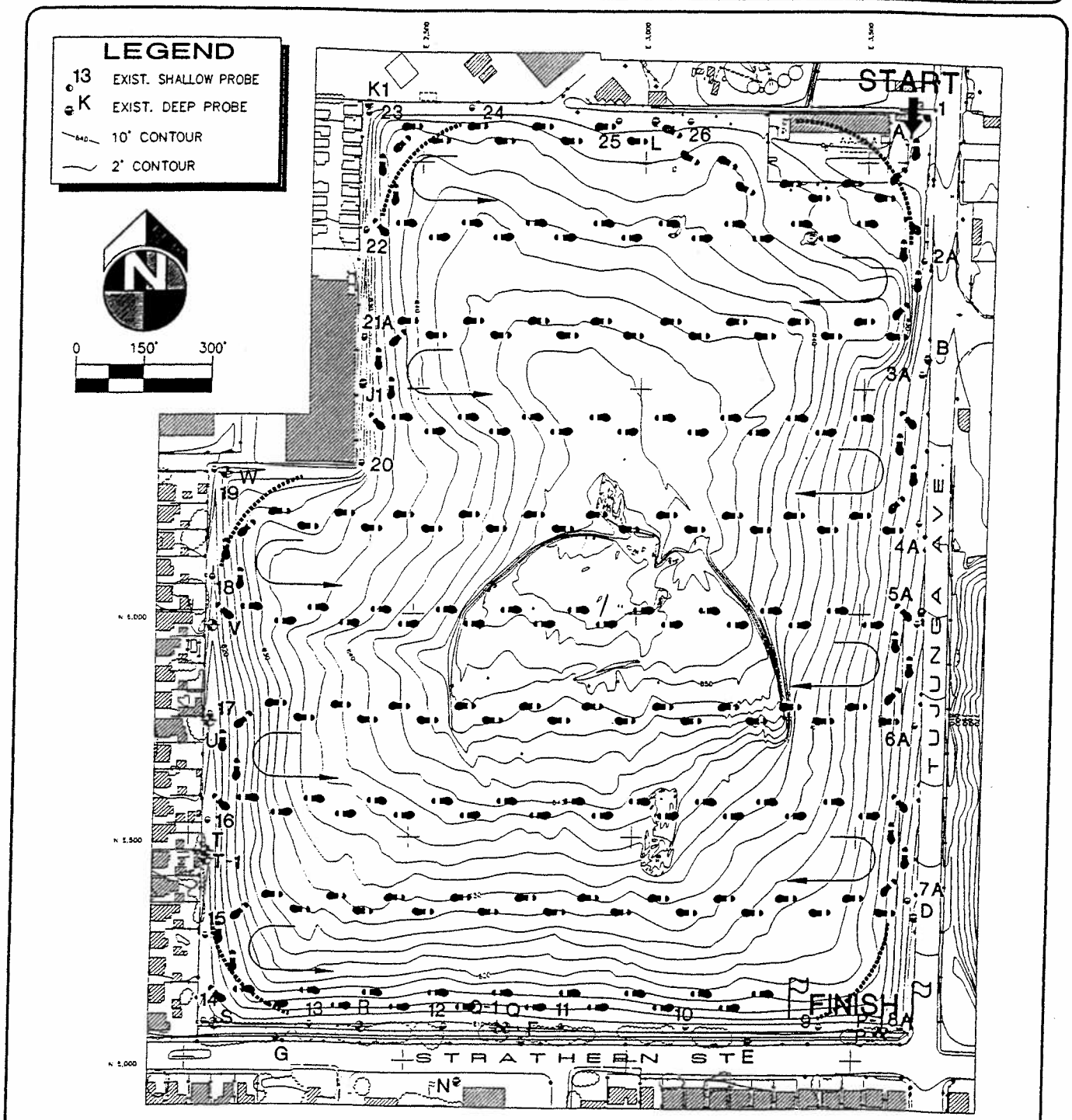
INSTANTANEOUS SURFACE MONITORING



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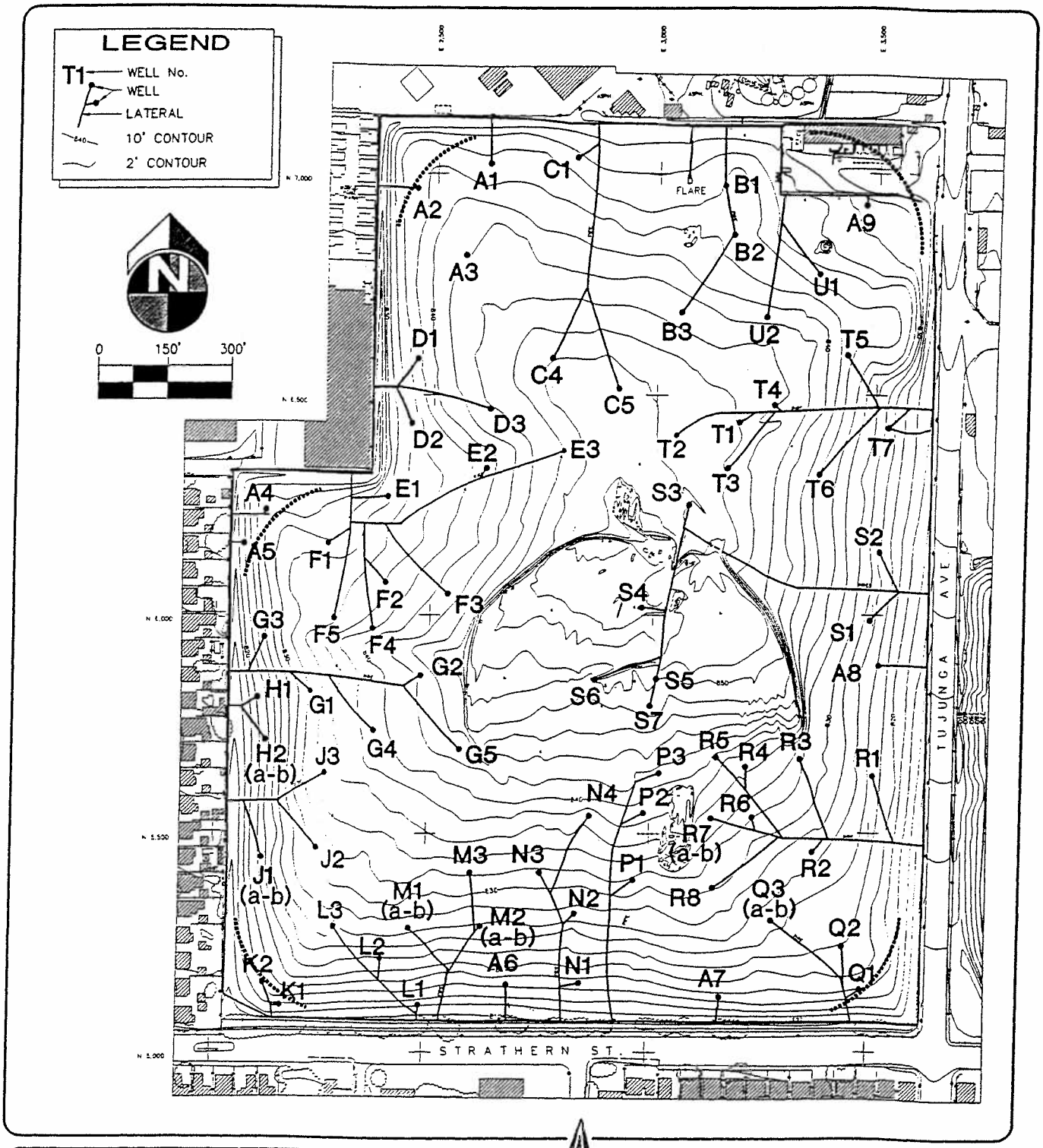
GAS COLLECTION SYSTEM



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2-22-99 WELL-SYS

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EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - First Quarter, 1999

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JOB NAME: PENROSE

JOB No. J152-6

DATE 1/8/99

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, (overcast), rain | <32° F, 33°-55°, 56°-70°, (71°-85°), 86°-100°, >100° F | (still), breeze, wind | dry, (moderate), humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: The electronic wind speed indicator detected ND. Last recorded rainfall was over 72 hours ago. The OVA instrument used was a FOXBORO 128 last calibrated by ROBERT McAllister on 1/8/99. The monitor began at 8:00 am and was completed at 10:15 am with a result of ND. Contractor followed PATH 'A'.

☐ REINSPECTION REQUIRED

Robert mcallist
INSPECTOR

PRINCIPAL

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 1-13-99

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: ATF

TIME: 1230 - 1545

INSTRUMENT: BACHARACH HPK

PARAMETER: % vol. combustible gas

REMARKS: Calibrated to 2.5% CH_4 calibrant
X = tubing inaccessible or missing
lost = could not find probe

PROBE #	% vol.
1	ND
2 A	ND
3 A	ND
4 A	ND
5 A	ND
6 A	ND
7 A	ND
8 A	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
16	ND
17	ND
18	lost
19	ND
20	ND
21 A	ND
22	ND
23	lost
24	ND
25	ND
26	ND

PROBE #		% vol.
A-1		ND
B		ND
C	GREEN-21'	ND
	YELLOW-41'	ND
	ORANGE-61'	X
	RED - 81'	X
D		ND
E		ND
F		ND
G		ND
J-1		ND
K-1		ND
L	GREEN-45'	ND
	YELLOW-65'	ND
	ORANGE-85'	ND
	RED - 105'	ND
N	GREEN-22'	ND
	YELLOW-45'	ND
	ORANGE-68'	ND
	RED - 90'	ND
P	10'	ND
	40'	ND
	80'	ND
P-1	120'	ND
Q	10'	ND
	40'	ND
	75'	ND
Q-1	120'	ND
	158'	ND

		% vol.
R	10'	ND
	40'	ND
	80'	ND
	120'	ND
S	10'	ND
	40'	ND
	80'	ND
	120'	ND
T	10'	ND
	40'	ND
	73'	ND
T-1	72'	ND
U	10'	ND
	37'	4
	68'	ND
V	10'	ND
	40'	ND
	73'	ND
W	10'	ND
	40'	ND
	80'	ND
	120'	ND
	158'	ND
TSI		

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JOB NAME: PENROSE

JOB No. 5152-6
DATE 1/29/99

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: TSI, ISS, PPS.

CONTRACTOR(S): ROBERT McAllister

REMARKS: An electronic wind speed indicator detected a South wind at .3 to 2.4 mph. Last rainfall was over 72 hours ago. All air samples were collected in 10-liter Tedlar bags and placed in a black trash bag for protection from Sunlight. The TOC instrument used was a Natural Gas Indicator model npL-204 last calibrated by J.G. Tucker and son on 8/7/98. The OVA instrument used was a FoxBoRo 128 last calibrated on 1/29/99 by Robert McAllister. The H_2S level was determined by Drager tubes and a Drager pump. The ISS were collected in a portable

☐ REINSPECTION REQUIRED

Robert mcallist
INSPECTOR

PRINCIPAL

K4007E 4/15/94

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 1/29/99

REMARKS CONTINUED:

self-contained unit with its own internal power supply, which collected samples at 400 cc/MIN.

ISS # 46 was collected at 11:55 am and tested for OVA (ND) and H_2S (ND). ISS # 47 was collected at 12:30 pm and tested for H_2S (ND) and OVA (ND). PPS U 37' was collected at 1:20 pm and tested for H_2S (ND) and TOC (ND). TSI was collected at 2:00 pm and tested for H_2S (85ppm) and TOC (43%).

INSPECTOR

PRINCIPAL

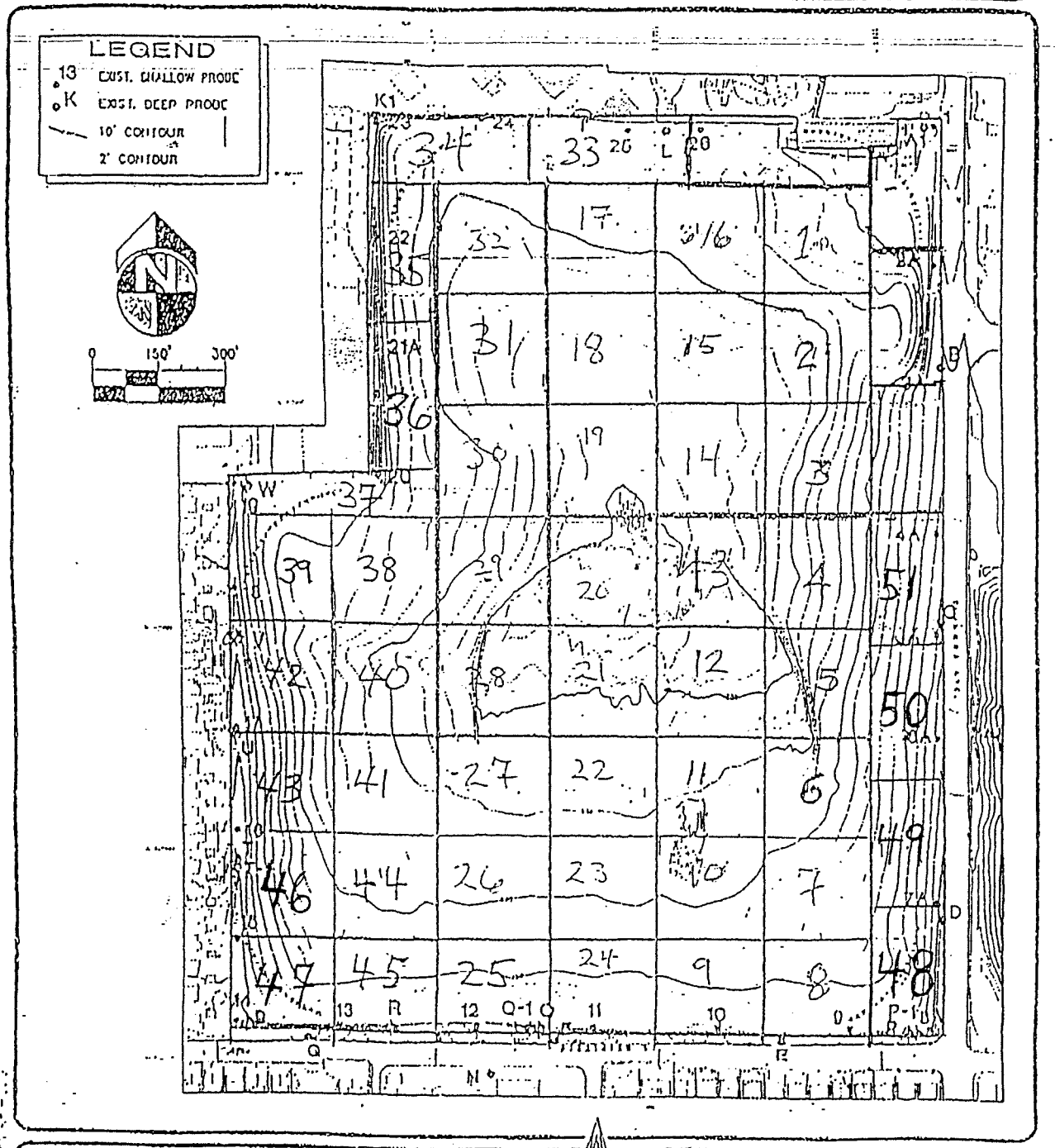
SHEET__OF__

000852

CONFIDENTIAL

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



SEPICH ASSOCIATES, Inc.
3017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-0371
FAX: (818) 707-3012 (805) 373-0987
CIVIL ENGINEERING
SANITARY
ENVIRONMENTAL
WASTE MGMT
GAS CONTROL
METHANE

Los Angeles By-Products Co.
Incorporated 1923
1010 East 75th St., Los Angeles, CA 90058
Tel: (213) 233-4175 • Fax: (213) 233-4170

SHEET ___ OF ___

TOTAL P.01

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Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 1/29/99
Job # 5152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	OVA	H_2S
ISS #46	ND	ND
ISS #47	ND	ND

REMARKS:
ISS #46 - 11:55 AM TSI - 2:00 PM
ISS #47 - 12:30 PM High Clouds
PPS U 37' - 1:20 PM South wind .3 - 2.4 mph

PROBE #						PROBE #		TOC	H_2S
						Q	10'		
		B					40'		
C	GREEN-21'						75'		
	YELLOW-41'					Q-1	120'		
	ORANGE-61'						158'		
	RED-81'					R	10'		
		D					40'		
		E					80'		
		F					120'		
		G				S	10'		
		H					40'		
I	GREEN-17'						80'		
	YELLOW-37'						120'		
	ORANGE-57'					T	10'		
	RED-77'						40'		
		J					73'		
		K				T-1	72'		
L	GREEN-45'					U	10'		
	YELLOW-65'						37'	ND	ND
	ORANGE-85'						68'		
	RED-105'					V	10'		
		M					40'		
N	GREEN-22'						73'		
	YELLOW-45'					W	10'		
	ORANGE-68'						40'		
	RED-90'						80'		
P	10'						120'		
	40'						158'		
	80'						TSI	43%	85 ppm
P-1	120'								

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VIL CA. 91362 TEL: (818) 707-3036 (805) 373-9321 FAX: (818) 707-3012 (805) 373-898

000854

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 211-4170

PENROSE LANDFILL

Date 1/30/99

Job # J152-6

GAS CONCENTRATIONS

REMARKS: High Clouds - west wind 1.4 to 3.6 mph

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1	ND	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

PROBE #			
B		ND	
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'	.6%	
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #			
Q	10'	ND	
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'	.4%	
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'	.4%	
	120'	.6%	
	158'		

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3036 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8987

000855

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3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 2/12/99

INSPECTION REPORT

CLIMATE: bright / clear / fog / cloudy / overcast / rain

<32° F / 33°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F

still / breeze / wind

dry / moderate / humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Last recorded Rainfall was over 72 hours ago. The electronic wind speed indicator detected a .1 to 2.0 mph SOUTH WIND. The OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 1/29/99. The Contractor followed PATH 'B' with a result of ND. The monitor began at 7:00 AM and was completed by 9:00 AM.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JS-0075 4/15/94

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000856

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 2/15/99

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: OPF

TIME: 1015-1512

INSTRUMENT: BACHARACH HPK

PARAMETER: % Vol. CH_4

REMARKS: Calibrated HPK to 2.5% CH_4 at 1010 hr 12/15/99. Pre-purged each probe w/ hand aspirator. ND = non-detect; X = could not monitor; T = trace (≤0.05% vol.) W = water in probe; ⓒ = clogged.

PROBE #	CH_4	
1	ND	
2 A	ND	
3 A	ND	
4 A	ND	
5 A	ND	
6 A	ND	
7 A	ND	
8 A	ND	
9	0.35	
10	X	buried
11	ND	
12	ND	
13	ND	
14	X	inaccessible
15	ND	
16	ND	
17	ND	
18	X	
19	ND	
20	ND	
21 A	ND	
22	ND	
23	X	
24	ND	
25	ND	
26	ND	

PROBE #		CH_4
A-1		ND
B		ND
C	GREEN-21'	ND ⓒ
	YELLOW-41'	ND ⓒ
	ORANGE-61'	X
	RED - 81'	X
D		T
E		12
F		ND
G		ND
J-1		ND
K-1		ND
L	GREEN-45'	T
	YELLOW-65'	ND
	ORANGE-85'	ND
	RED - 105'	3.5
N	GREEN-22'	ND
	YELLOW-45'	ND
	ORANGE-68'	ND
	RED - 90'	ND
P	10'	ND
	40'	ND
	80'	ND
P-1	120'	W ⓒ
Q	10'	ND
	40'	ND
	75'	ND
Q-1	120'	ND
	158'	ND

		CH_4
R	10'	ND
	40'	ND
	80'	ND
	120'	ND
S	10'	ND
	40'	ND
	80'	ND
	120'	ND
T	10'	ND
	40'	ND
	73'	ND
T-1	72'	ND
U	10'	ND
	37'	ND
	68'	2.8
V	10'	ND
	40'	ND
	73'	ND
W	10'	ND
	40'	0.2
	80'	ND
	120'	0.05
	158'	ND
TSI		

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

000857

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 2/26/99
Job # J152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1	ND	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

REMARKS:
- Began monitor @ 11:00 AM finished at 2:40 pm

PROBE #			
	B	ND	
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
	D		
	E		
	F		
	G		
	H		
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
	J		
	K		
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'	1.2%	
	M	ND	
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #			
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'	.8%	
	68'	ND	
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'	.3%	
	120'		
	158'		

Form prepared by: METHANE SPECIALISTS
WESTLAKE VII
FAX: (818) 707-3012 (805) 373-898
CA. 91362

000858

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 03/04/99

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain | <32° F / 33°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F | still / breeze / wind | dry / moderate / humid

LOCATION: PENROSE

PURPOSE: TSI, ISS, PPS.

CONTRACTOR(S): ROBERT. McAllister

REMARKS: Last recorded rainfall was over 72 hours ago. The electronic wind speed device detected 0.0 mph. wind velocity. Contractor used 10-liter Tedlar bags for all air samples and placed samples into a large black bag for protection from Sunlight. The OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 1/29/99. The TOC meter used was a Natural Gas Indicator model npl-204 last calibrated by J.G. Tucker and son on 8/7/98. The H_2S level was determined by Drager tubes and a Drager Pump. ISS were collected in a self-contained

☐ REINSPECTION REQUIRED

Robert mcallist
INSPECTOR

PRINCIPAL

SHEET OF

000859

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 3/4/99

REMARKS CONTINUED:

portable unit with its own internal power supply, which collected samples at 400 cc/MIN.

ISS # 48 was collected at 7:00 AM and tested for H_2S (ND) and OVA (ND). ISS # 49 was collected at 7:25 am and tested for H_2S (ND) and OVA (ND). PPS L Red was collected at 7:50 AM and tested for TOC (.8%) and H_2S (ND). TSI was collected at 8:15 am and tested for TOC (42.5%) and H_2S (85ppm).

Robert Mallitt
INSPECTOR

PRINCIPAL

SHEET __ OF __

000800

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 03/04/99
Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	QUA	H_2S
ISS#48	ND	ND
ISS#49	ND	ND

REMARKS: Cloudy - Cool TEMP
MOIST GROUND from morning DEW
ISS #48 7:00 AM
ISS #49 7:25 AM
PPS LRed 7:50 AM
TSI 8:15 AM

PROBE #		TOC	H_2S
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'	.8%	ND
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #		TOC	H_2S
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	42.5%	85 ppm

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VIL, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-898

Form prepared by:

000801

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 3/8/99

INSPECTION REPORT

CLIMATE: bright, clear, fog, (cloudy), overcast, rain | <32° F, 33°-55°, 56°-70°, (71°-85°), 86°-100°, >100° F | (still), breeze, wind | dry, (moderate), humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: The electronic wind speed indicator detected a ND. Last recorded Rainfall was over 72 hours ago. The OVA instrument used was a FOXBORO 128 last calibrated on 1/29/99 by Robert McAllister. The contractor followed PATH 'A' with a result of ND. Monitor began at 8:00 AM and was completed at 9:50 AM.

☐ REINSPECTION REQUIRED

20 ft. 11°ft

S-4/15/94

000862

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Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax (213) 211-4170

PENROSE LANDFILL

Date 03/29/99
Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		

REMARKS:
- Began monitor at 7:00 AM and finished at 11:00 AM
- clear skies COOL TEMP

PROBE #		
1	ND	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

PROBE #			
	B		ND
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
	D		
	E		
	F		
	G		
	H		
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
	J		
	K		
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
	M		
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #			
Q	10'		ND
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		

Form prepared by: METHANE SPECIALISTS WESTLAKE VI

000803

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3752-6

DATE 3/31/99

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS.

CONTRACTOR(S): ROBERT McAllister

REMARKS: Cool weather and High Clouds. The electronic wind speed indicator detected a 1-3mph West wind. Last recorded rainfall was over 72 hours ago. All air samples were collected in 10-liter Tedlar bags and placed into a Black bag for protection from Sunlight. The OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 1/29/99. The TOC instrument used was a Natural Gas Indicator model npL-204 last calibrated by J.G. Tucker and Son on 8/7/98. H_2S levels were detected by Drager Tubes and a Drager Pump. ISS were

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

ISI0075 4/15/94

SHEET__OF__

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6

DATE 3/31/99

REMARKS CONTINUED:

collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min.

ISS #50 was collected at 9:31 Am and tested for OVA (ND) and H_2S (ND). ISS #51 was collected at 9:55 am and tested for OVA (ND) and H_2S (ND). PPS U 37' was collected at 10:30 am and test for TOC (1.6%) and H_2S (ND). The TSI was collected at 11:45 am and tested for H_2S (85 ppm) and TOC (45%).

INSPECTOR

PRINCIPAL

SHEET __ OF __

000835

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 03/31/99

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS Cloudy Day - Cool weather
TIME	ISS 50 - 9:31 Am - West WIND 1-3mph
INSTRUMENT	ISS 51 - 9:55 Am
	PPS u37 - 10:30 Am
PARAMETER	TSI - 11:45 Am -

PROBE #			PROBE #						H_2S	TOC
1			A-1			R	10'			
2 A			B				40'			
3 A			C	GREEN-21'			80'			
4 A				YELLOW-41'			120'			
5 A				ORANGE-61'		S	10'			
6 A				RED - 81'			40'			
7 A			D				80'			
8 A			E				120'			
9			F			T	10'			
10			G				40'			
11			J-1				73'			
12			K-1			T-1	72'			
13			L	GREEN-45'		U	10'			
14				YELLOW-65'			37'		ND	1.6%
15				ORANGE-85'			68'			
16				RED - 105'		V	10'			
17			N	GREEN-22'			40'			
18				YELLOW-45'			73'			
19				ORANGE-68'		W	10'			
20				RED - 90'			40'			
21 A			P	10'	-		80'			
22				40'			120'			
23				80'			158'			
24			P-1	120'						
25			Q	10'		TSI			85ppm	45%
26	ONA	H_2S		40'						
ISS 50	ND	ND		75'						
ISS 51	ND	ND	Q-1	120'						
				158'						

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, C. 3021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIAL

EXHIBIT D

Laboratory Analytical Results - First Quarter, 1999

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	01/29/99
444 Irving Drive, Suite 101	Date Received:	02/01/99
Burbank, CA 91504	Date Analyzed:	02/01/99
	Work Order No.:	99-02-0009
Attn: Robert McAllister	Method:	ASTM D-1946
RE: Penrose Landfill/J152-6	Page 1 of 2	

All concentrations are reported in percent (%) by volume.

Analyte	Concentration	Reporting Limit
Sample Number: TSI		
Oxygen (O_2)	2.9	1.0
Nitrogen (N_2)	24.9	1.0
Methane (CH_4)	37.5	1.0
Carbon Monoxide (CO)	ND	1.0
Carbon Dioxide (CO_2)	34.7	1.0
Sample Number: Method Blank		
Oxygen (O_2)	ND	0.1
Nitrogen (N_2)	ND	0.1
Methane (CH_4)	ND	0.1
Carbon Monoxide (CO)	ND	0.1
Carbon Dioxide (CO_2)	ND	0.1

000863

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	01/29/99
444 Irving Drive, Suite 101	Date Received:	02/01/99
Burbank, CA 91504	Date Analyzed:	02/01/99
	Work Order No.:	99-02-0009
Attn: Robert McAllister	Method:	ASTM D-1946
RE: Penrose Landfill/J152-6	Page 2 of 2	

All concentrations are reported in percent (%) by volume.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen (O_2) plus Argon	2.9	2.9	0	0 - 30
Nitrogen (N_2)	24.9	24.8	0	0 - 30
Methane (CH_4)	37.5	37.5	0	0 - 30
Carbon Monoxide (CO)	ND	ND	NA	0 - 30
Carbon Dioxide (CO_2)	34.7	34.9	1	0 - 30

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

000800

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-15 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	99-02-0009		
QC Batch ID:	K990201A	Date Collected:	01/29/99
Matrix:	Air	Date Received:	02/01/99
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-15	Date Analyzed:	02/01/99

Client Sample **ISS #46**
Lab Sample Number: 99-02-0009-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	4.2	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.3	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	26.6	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	20.6	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	0.8	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-15 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	99-02-0009		
QC Batch ID:	K990201A	Date Collected:	01/29/99
Matrix:	Air	Date Received:	02/01/99
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-15	Date Analyzed:	02/01/99

Client Sample **ISS #47**
Lab Sample Number: 99-02-0009-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	4.5	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.2	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	19.7	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	11.6	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-15 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	99-02-0009		
QC Batch ID:	K990201A	Date Collected:	01/29/99
Matrix:	Air	Date Received:	02/01/99
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-15	Date Analyzed:	02/01/99

Client Sample **PPS U 37'**
Lab Sample Number: 99-02-0009-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	2.0		ppb (v/v)
Acetonitrile	ND	4.0		ppb (v/v)
1,1-Dichloroethene	ND	2.0		ppb (v/v)
Methylene Chloride	11.4	8.0		ppb (v/v)
1,1-Dichloroethane	ND	2.0		ppb (v/v)
Chloroform	ND	2.0		ppb (v/v)
1,2-Dichloroethane	ND	2.0		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0		ppb (v/v)
Benzene	ND	2.0		ppb (v/v)
Carbon Tetrachloride	ND	2.0		ppb (v/v)
Toluene	21.5	2.0		ppb (v/v)
Trichloroethene	ND	2.0		ppb (v/v)
Tetrachloroethene	6.8	2.0		ppb (v/v)
Chlorobenzene	ND	2.0		ppb (v/v)
Xylenes (total)	15.8	6.0		ppb (v/v)
Benzyl Chloride	ND	2.0		ppb (v/v)
1,3-Dichlorobenzene	ND	2.0		ppb (v/v)
1,4-Dichlorobenzene	3.3	2.0		ppb (v/v)
1,2-Dichlorobenzene	ND	2.0		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-15 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	99-02-0009		
QC Batch ID:	K990201A	Date Collected:	01/29/99
Matrix:	Air	Date Received:	02/01/99
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-15	Date Analyzed:	02/01/99

Client Sample **TSI**
Lab Sample Number: 99-02-0009-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	300		ppb (v/v)
Acetonitrile	ND	600		ppb (v/v)
1,1-Dichloroethene	ND	300		ppb (v/v)
Methylene Chloride	2880	1200		ppb (v/v)
1,1-Dichloroethane	ND	300		ppb (v/v)
Chloroform	ND	300		ppb (v/v)
1,2-Dichloroethane	ND	300		ppb (v/v)
1,1,1-Trichloroethane	ND	300		ppb (v/v)
Benzene	1160	300		ppb (v/v)
Carbon Tetrachloride	ND	300		ppb (v/v)
Toluene	8550	300		ppb (v/v)
Trichloroethene	ND	300		ppb (v/v)
Tetrachloroethene	ND	300		ppb (v/v)
Chlorobenzene	650	300		ppb (v/v)
Xylenes (total)	10600	900		ppb (v/v)
Benzyl Chloride	ND	300		ppb (v/v)
1,3-Dichlorobenzene	ND	300		ppb (v/v)
1,4-Dichlorobenzene	430	300		ppb (v/v)
1,2-Dichlorobenzene	ND	300		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-15 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	99-02-0009		
QC Batch ID:	K990201A	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-15	Date Analyzed:	02/01/99

Client Sample **Method Blank**
Lab Sample Number: 095-01-021-625

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

000874

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

EPA TO-15 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	K990201A	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-15	Date Analyzed:	02/01/99

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	106	110	60-140	3	0-30	
1,2-Dichloroethane	103	106	60-140	2	0-30	
Benzene	101	106	60-140	4	0-30	
Carbon Tetrachloride	102	105	60-140	2	0-30	
Trichloroethene	99	103	60-140	3	0-30	
Tetrachloroethene	99	102	60-140	2	0-30	
1,4-Dichlorobenzene	100	103	60-140	2	0-30	
1,2-Dichlorobenzene	105	107	60-140	1	0-30	

000875

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	1-29-99

02-0009

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

ROBERT McAllister — JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4			FIXED GAS			REMARKS
J152-6	1/29/99	11:55 Am	C	1	ISS #46	✓	✓	✓						
J152-6	1/29/99	12:30 PM	C	1	ISS #47	✓	✓	✓						
J152-6	1/29/99	1:20 PM	G	1	PPS 4 37'	✓								
J152-6	1/29/99	2:00 PM	G	1	TSI	✓					✓			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	2/1/99	0915
RECEIVED BY:	[illegible]	Calscience	2/1/99	0915
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:	[illegible]	Calscience	2/1/99	1250
RECEIVED BY:	[illegible]	Calscience	2/1/99	1250

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February 4, 1999

ELAP No.: 1838

Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1432

ATTN: Jody McInerney

Client's Project: 99-02-0009
Lab No.: 32803-001/002

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

Cheryl De Los Reyes
Technical Operations Manager
CDR/jh

Enclosures

This cover letter is an integral part of this analytical report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

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Client: Calscience Environmental Laboratories
Attn: Jody McInerney

Client's Project: 99-02-0009
Date Received: 02/01/99
Matrix: Air

Total Non-Methane Organics and Fixed Gases (SCAQMD 25.1)

Lab No.:		32803-001		32803-002							
Client Sample I.D.:		ISS#46		ISS#47							
Date Sampled:		01/29/99		01/29/99							
Date Analyzed:		02/01/99		02/01/99							
Analyst Initials:		VM/AK		VM/AK							
Dilution Factor:		1.0		1.0							
ANALYTE	MDL	DLR	Result	DLR	Result	DLR	Result	DLR	Result	DLR	Result
TNMO (ppmc)	10	10	ND	10	ND						
Methane (%)	0.001	0.001	ND	0.001	0.004						

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 2/5/99
Val Mahari
Air Toxics Laboratory Manager

Reviewed/Approved By: _____ Date 2/5/99
Beverly Tanaka
QAQC Manager

The cover letter is an integral part of this analytical report.

000873

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 2-01-99

Page 1 of 1

LABORATORY CLIENT:

ADDRESS:

CITY STATE ZIP

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: 99-02-0009

PROJECT CONTACT: Jody McDherny

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS
1. Normal TAT.
2. Watch Holding Time (up 2-01)

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) (O)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EDB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	ICP/MS METALS (6020)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)				
	ISS #46		1-29																	X					
	ISS# 47		↓																	↓					
	~~PPS 437~~		~~—~~																	~~—~~					
	~~FSI~~		~~↓~~																	~~↓~~					

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		2/01/99	15:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
		2/01/99	15:30

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

02/01/99 Revision

Q&Q Graphic (714) 898-9702

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Calscience Environmental Laboratories, Inc.

March 19, 1999

Robert McAllister
L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Subject: **Calscience Work Order Number: 99-03-0136**
Client Reference: Penrose Landfill / J152-6

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 03/04/99 and analyzed in accordance with the attached chain-of-custody. The SCAQMD 25.1 analysis was performed by a subcontract laboratory. The subcontract laboratory report is attached.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information about our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

William H. Christensen
Quality Assurance Manager

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	03/04/99
444 Irving Drive, Suite 101	Date Received:	03/04/99
Burbank, CA 91504	Date Analyzed:	03/05/99
	Work Order No.:	99-03-0136
Attn: Robert McAllister	Method:	ASTM D-1946
RE: Penrose Landfill / J152-6	Page 1 of 2	

All concentrations are reported in percent (%) by volume.

Analyte	Concentration	Reporting Limit
Sample Number: TSI		
Oxygen (O_2)	0.7	0.1
Nitrogen (N_2)	22.4	0.1
Methane (CH_4)	39.9	0.1
Carbon Monoxide (CO)	ND	0.1
Carbon Dioxide (CO_2)	37.0	0.1
Sample Number: Method Blank		
Oxygen (O_2)	ND	0.1
Nitrogen (N_2)	ND	0.1
Methane (CH_4)	ND	0.1
Carbon Monoxide (CO)	ND	0.1
Carbon Dioxide (CO_2)	ND	0.1

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	03/04/99
444 Irving Drive, Suite 101	Date Received:	03/04/99
Burbank, CA 91504	Date Analyzed:	03/05/99
	Work Order No.:	99-03-0136
Attn: Robert McAllister	Method:	ASTM D-1946
RE: Penrose Landfill / J152-6	Page 2 of 2	

All concentrations are reported in percent (%) by volume.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen (O_2) plus Argon	0.7	0.8	13	0 - 30
Nitrogen (N_2)	22.4	23.0	3	0 - 30
Methane (CH_4)	39.9	39.5	1	0 - 30
Carbon Monoxide (CO)	ND	ND	NA	0 - 30
Carbon Dioxide (CO_2)	37.0	36.7	1	0 - 30

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 03/04/99
Work Order No: 99-03-0136
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS #48	99-03-0136-1	03/04/99	Air	N/A	03/06/99	K990306A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	5.4	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	4.2	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	0.9	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

ISS #49	99-03-0136-2	03/04/99	Air	N/A	03/06/99	K990306A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	9.2	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	8.9	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	0.9	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

PPS L RED	99-03-0136-3	03/04/99	Air	N/A	03/06/99	K990306A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	2.0	0.5	1		ppb (v/v)	Toluene	7.3	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	1.6	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	6.5	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	1.3	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received:	03/04/99
Work Order No:	99-03-0136
Preparation:	N/A
Method:	EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	99-03-0136-4	03/04/99	Air	N/A	03/05/99	K990305A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	220	80	170		ppb (v/v)	Toluene	4650	80	170		ppb (v/v)
Acetonitrile	ND	170	170		ppb (v/v)	Trichloroethene	ND	80	170		ppb (v/v)
1,1-Dichloroethene	ND	80	170		ppb (v/v)	Tetrachloroethene	ND	80	170		ppb (v/v)
Methylene Chloride	ND	340	170		ppb (v/v)	Chlorobenzene	310	80	170		ppb (v/v)
1,1-Dichloroethane	ND	80	170		ppb (v/v)	Xylenes (total)	4440	260	170		ppb (v/v)
Chloroform	ND	80	170		ppb (v/v)	Benzyl Chloride	ND	80	170		ppb (v/v)
1,2-Dichloroethane	ND	80	170		ppb (v/v)	1,3-Dichlorobenzene	ND	80	170		ppb (v/v)
1,1,1-Trichloroethane	ND	80	170		ppb (v/v)	1,4-Dichlorobenzene	100	80	170		ppb (v/v)
Benzene	890	80	170		ppb (v/v)	1,2-Dichlorobenzene	ND	80	170		ppb (v/v)
Carbon Tetrachloride	ND	80	170		ppb (v/v)						

Method Blank	095-01-021-651	N/A	Air	N/A	03/06/99	K990306A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	ND	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

Method Blank	095-01-021-652	N/A	Air	N/A	03/05/99	K990305A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	ND	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received:	03/04/99
Work Order No:	99-03-0136
Preparation:	N/A
Method:	EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-652	Air	GC/MS E	N/A	03/05/99	K990305A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	66	66	60-140	1	0-30	
1,2-Dichloroethane	89	88	60-140	1	0-30	
Benzene	84	85	60-140	1	0-30	
Carbon Tetrachloride	89	87	60-140	2	0-30	
Trichloroethene	84	84	60-140	0	0-30	
Tetrachloroethene	83	83	60-140	0	0-30	
1,4-Dichlorobenzene	84	84	60-140	1	0-30	
1,2-Dichlorobenzene	85	86	60-140	2	0-30	

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Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 03/04/99
Work Order No: 99-03-0136
Preparation: N/A
Method: EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-651	Air	GC/MS E	N/A	03/06/99	K990306A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	93	93	60-140	0	0-30	
1,2-Dichloroethane	100	100	60-140	0	0-30	
Benzene	97	97	60-140	0	0-30	
Carbon Tetrachloride	98	96	60-140	2	0-30	
Trichloroethene	98	97	60-140	1	0-30	
Tetrachloroethene	95	95	60-140	0	0-30	
1,4-Dichlorobenzene	100	100	60-140	1	0-30	
1,2-Dichlorobenzene	103	104	60-140	1	0-30	

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Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 99-03-0136

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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0136

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	03/04/99

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	CORE GROUP	ANALYSES REQUIRED: NMHC						Fixed Gas	REMARKS
J152-6	03/04/99	7:00 AM	C	1	ISS #48		✓							
J152-6	03/04/99	7:25 AM	C	1	ISS #49		✓							
J152-6	03/04/99	7:50 AM	G	1	PPS L RED		✓							
J152-6	03/04/99	8:15 AM	G	1	TSI		✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	03/04/99	9:15 AM
RECEIVED BY:	[illegible]	CALSCIENCE	3/4/99	9:15
RELINQUISHED BY:	[illegible]		3/4	1120
RECEIVED BY:	[illegible]	CALSCIENCE	3/4/99	1120
RELINQUISHED BY:				
RECEIVED BY:				

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Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

LABORATORY REPORT

Client:	Calscience Environmental Laboratories, Inc.	Date of Report:	03/26/99
Address:	7440 Lincoln Way	Date Received:	03/05/99
	Garden Grove, CA 92841	PAI Project No:	P9900451
Contact:	Ms. Jody McInerney	Purchase Order:	Verbal

Client Project ID: #99-03-0136

Four (4) Tedlar Bag Samples labeled:

"ISS #48" "ISS #49" "PPS LRED" "TSI"

The samples were received at the laboratory under chain of custody on March 5, 1999. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

Methane and Total Gaseous Non-Methane Organics Analysis
The samples were analyzed for Methane and total gaseous non-Methane organics according to SCAQMD Method 25.1. The analyses were performed by gas chromatography using flame ionization detection/total combustion analysis.

One of the samples was analyzed for Methane using a Hewlett Packard Model 5890 gas chromatograph equipped with a thermal conductivity detector (TCD).

Fixed Gases Analysis
One of the samples was analyzed for fixed gases (Hydrogen, Oxygen/Argon, Nitrogen, Carbon monoxide, Methane and Carbon dioxide) using a Hewlett Packard Model 5890 gas chromatograph equipped with a thermal conductivity detector (TCD).

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Wade Henton
Analytical Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

2665 Park Center Drive, Suite D, Simi Valley, California 93065 • Phone (805) 526-7161 • Fax (805) 526-7270

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Performance Analytical Inc.
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RESULTS OF ANALYSIS

Client : Calscience Environmental Laboratories, Inc.

Client Sample ID : ISS #48
PAI Sample ID : P9900451-001

Test Code :	SCAQMD Method 25.1	Date Sampled :	3/4/99
Instrument :	HP5890A/FID/TCA	Date Received :	3/5/99
Analyst :	K. Chen/J. Yokoyama/W. Henton	Date Analyzed :	3/5/99
Matrix :	Tedlar Bag	Volume(s) Analyzed :	0.50 ml

D.F. = 1.00

CAS #	COMPOUND	RESULT ppm, v/v	REPORTING LIMIT ppm, v/v
74-82-8	Methane	2.7	0.50
	Total Gaseous Non-Methane Organics (as Methane)	11	1.0

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: KA Date: 3/19/99

00451SVG.RD1 -Sample 3/19/99

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RESULTS OF ANALYSIS

Client : Calscience Environmental Laboratories, Inc.

Client Sample ID : ISS #49
PAI Sample ID : P9900451-002

Test Code :	SCAQMD Method 25.1	Date Sampled :	3/4/99
Instrument :	HP5890A/FID/TCA	Date Received :	3/5/99
Analyst :	K. Chen/J. Yokoyama/W. Henton	Date Analyzed :	3/5/99
Matrix :	Tedlar Bag	Volume(s) Analyzed :	0.50 ml

D.F. = 1.00

CAS #	COMPOUND	RESULT ppm, v/v	REPORTING LIMIT ppm, v/v
74-82-8	Methane	2.0	0.50
	Total Gaseous Non-Methane Organics (as Methane)	2.7	1.0

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: KA Date: 3/19/99

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RESULTS OF ANALYSIS

Client : Calscience Environmental Laboratories, Inc.

Client Sample ID : PPS LRED
PAI Sample ID : P9900451-003

Test Code :	SCAQMD Method 25.1	Date Sampled :	3/4/99
Instrument :	HP5890A/FID/TCA	Date Received :	3/5/99
Analyst :	K. Chen/J. Yokoyama/W. Henton	Date Analyzed :	3/5/99
Matrix :	Tedlar Bag	Volume(s) Analyzed :	0.50 ml

D.F. = 1.00

CAS #	COMPOUND	RESULT ppm, v/v	REPORTING LIMIT ppm, v/v
	Total Gaseous Non-Methane Organics (as Methane)	16	1.0

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: KA Date: 3/19/99

00451SVG.RD1 -Sample (3) 3/19/99

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Performance Analytical Inc.
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RESULTS OF ANALYSIS

Client : Calscience Environmental Laboratories, Inc.

Client Sample ID : TSI
PAI Sample ID : P9900451-004

Test Code :	SCAQMD Method 25.1	Date Sampled :	3/4/99
Instrument :	HP5890A/FID/TCA	Date Received :	3/5/99
Analyst :	K. Chen/J. Yokoyama/W. Henton	Date Analyzed :	3/5/99
Matrix :	Tedlar Bag	Volume(s) Analyzed :	0.053 ml

D.F. = 1.00

CAS #	COMPOUND	RESULT ppm, v/v	REPORTING LIMIT ppm, v/v
	Total Gaseous Non-Methane Organics (as Methane)	200	9.4

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: KA Date: 3/19/99

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Performance Analytical Inc.
Air Quality Laboratory
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RESULTS OF METHANE ANALYSIS

Client: Calscience Environmental Laboratories, Inc.

Client Project ID: 99-03-0136
PAI Project ID: P9900451

Test Code: GC/TCD
Instrument ID: HP5890/TCD #1
Analyst: J. Yokoyama/K. Chen/W. Henton
Matrix: Tedlar Bag(s)

Date Sampled: 3/4/99
Date Received: 3/5/99
Date Analyzed: 3/5/99
Volume(s) Analyzed: 0.10 ml

Client Sample ID	PAI Sample ID	D.F.	Methane (%, v/v)	
			Result	Reporting Limit
PPS LRED	P9900451-003	1.00	0.755	0.100
Method Blank	P990305-MB	1.00	ND	0.100

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : KA Date : 3/19/99

00451SVG.RD2 - Sample 3/8/99

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Performance Analytical Inc.
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RESULTS OF ANALYSIS

Client : Calscience Environmental Laboratories, Inc.

Client Sample ID : Method Blank
PAI Sample ID : P990305-MB

Test Code :	SCAQMD Method 25.1	Date Sampled :	NA
Instrument :	HP5890A/FID/TCA	Date Received :	NA
Analyst :	K. Chen/J. Yokoyama/W. Henton	Date Analyzed :	3/5/99
Matrix :	Tedlar Bag	Volume(s) Analyzed :	0.50 ml

D.F. = 1.00

CAS #	COMPOUND	RESULT ppm, v/v	REPORTING LIMIT ppm, v/v
74-82-8	Methane	ND	0.50
	Total Gaseous Non-Methane Organics (as Methane)	ND	1.0

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: KA Date: 3/19/99

00451SVG.RD1 -M_Blank 3/19/99

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CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
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~~Quanterra~~ PERFORMANCE ANALYTICAL

CHAIN OF CUSTODY RECORD

Date 3/4/99

Page 1 of 1

LABORATORY CLIENT:

ADDRESS:

CITY STATE ZIP

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: 99-03-0136

PROJECT CONTACT: Jody McInerney

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS
Normal TAT; FAX results

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) (O)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EDB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	ICP/MS METALS (6020)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)					
1	ISS#48		3/4/99		A	1														X						001
2	ISS#49		↓		↓															X						002
3	PPS LRED																			X						003
4	TSI																			X	X					004

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
~~Relinquished by: (Signature)~~	FED EX	3/4/99	17:15
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date: 3/5/99	Time: 0930

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

02/01/99 Revision

Q&Q Graphic (714) 898-9702

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000896

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	03/31/99
444 Irving Drive, Suite 101	Date Received:	04/01/99
Burbank, CA 91504	Date Analyzed:	04/02/99
	Work Order No.:	99-04-0034
Attn: Robert McAllister	Method:	ASTM D-1946
RE: Penrose Landfill / J152-6	Page 1 of 2	

All concentrations are reported in percent (%) by volume.

Analyte	Concentration	Reporting Limit
Sample Number: TSI		
Oxygen (O_2) plus Argon	0.8	0.1
Nitrogen (N_2)	20.0	0.1
Methane (CH_4)	41.4	0.1
Carbon Monoxide (CO)	ND	0.1
Carbon Dioxide (CO_2)	37.8	0.1
Sample Number: Method Blank		
Oxygen (O_2) plus Argon	ND	0.1
Nitrogen (N_2)	ND	0.1
Methane (CH_4)	ND	0.1
Carbon Monoxide (CO)	ND	0.1
Carbon Dioxide (CO_2)	ND	0.1

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	03/31/99
444 Irving Drive, Suite 101	Date Received:	04/01/99
Burbank, CA 91504	Date Analyzed:	04/02/99
	Work Order No.:	99-04-0034
Attn: Robert McAllister	Method:	ASTM D-1946
RE: Penrose Landfill / J152-6	Page 2 of 2	

All concentrations are reported in percent (%) by volume.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen (O_2) plus Argon	0.8	0.7	13	0 - 25
Nitrogen (N_2)	20.0	19.8	1	0 - 25
Methane (CH_4)	41.4	41.6	0	0 - 25
Carbon Monoxide (CO)	ND	ND	NA	0 - 25
Carbon Dioxide (CO_2)	37.8	37.9	0	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

000893

CONFIDENTIA

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 04/01/99
Work Order No: 99-04-0034
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
ISS #50	99-04-0034-1	03/31/99	Air	N/A	04/03/99	K990403A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	7.0	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	4.4	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

ISS #51	99-04-0034-2	03/31/99	Air	N/A	04/03/99	K990403A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	10.0	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	5.8	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

PPS U 37	99-04-0034-3	03/31/99	Air	N/A	04/02/99	K990402A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	3.9	2.0	4		ppb (v/v)	Toluene	9.8	2.0	4		ppb (v/v)
Acetonitrile	ND	4.0	4		ppb (v/v)	Trichloroethene	ND	2.0	4		ppb (v/v)
1,1-Dichloroethene	ND	2.0	4		ppb (v/v)	Tetrachloroethene	6.2	2.0	4		ppb (v/v)
Methylene Chloride	ND	8.0	4		ppb (v/v)	Chlorobenzene	6.8	2.0	4		ppb (v/v)
1,1-Dichloroethane	ND	2.0	4		ppb (v/v)	Xylenes (total)	7.0	6.0	4		ppb (v/v)
Chloroform	ND	2.0	4		ppb (v/v)	Benzyl Chloride	ND	2.0	4		ppb (v/v)
1,2-Dichloroethane	ND	2.0	4		ppb (v/v)	1,3-Dichlorobenzene	ND	2.0	4		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0	4		ppb (v/v)	1,4-Dichlorobenzene	4.9	2.0	4		ppb (v/v)
Benzene	2.4	2.0	4		ppb (v/v)	1,2-Dichlorobenzene	ND	2.0	4		ppb (v/v)
Carbon Tetrachloride	ND	2.0	4		ppb (v/v)						

00089

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Received: 04/01/99
Work Order No: 99-04-0034
Preparation: N/A
Method: EPA TO-15

Project: Penrose Landfill / J152-6

Client Sample Number:	Lab Sample Number:	Date Collected:	Matrix:	Date Prepared:	Date Analyzed:	QC Batch ID:
TSI	99-04-0034-4	03/31/99	Air	N/A	04/02/99	K990402A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	230	130	260		ppb (v/v)	Toluene	5290	130	260		ppb (v/v)
Acetonitrile	ND	260	260		ppb (v/v)	Trichloroethene	ND	130	260		ppb (v/v)
1,1-Dichloroethene	ND	130	260		ppb (v/v)	Tetrachloroethene	ND	130	260		ppb (v/v)
Methylene Chloride	990	520	260		ppb (v/v)	Chlorobenzene	260	130	260		ppb (v/v)
1,1-Dichloroethane	ND	130	260		ppb (v/v)	Xylenes (total)	4190	390	260		ppb (v/v)
Chloroform	ND	130	260		ppb (v/v)	Benzyl Chloride	ND	130	260		ppb (v/v)
1,2-Dichloroethane	ND	130	260		ppb (v/v)	1,3-Dichlorobenzene	ND	130	260		ppb (v/v)
1,1,1-Trichloroethane	ND	130	260		ppb (v/v)	1,4-Dichlorobenzene	ND	130	260		ppb (v/v)
Benzene	900	130	260		ppb (v/v)	1,2-Dichlorobenzene	ND	130	260		ppb (v/v)
Carbon Tetrachloride	ND	130	260		ppb (v/v)						

Method Blank	095-01-021-670	N/A	Air	N/A	04/02/99	K990402A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	ND	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

Method Blank	095-01-021-671	N/A	Air	N/A	04/03/99	K990403A

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Vinyl Chloride	ND	0.5	1		ppb (v/v)	Toluene	ND	0.5	1		ppb (v/v)
Acetonitrile	ND	1.0	1		ppb (v/v)	Trichloroethene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethene	ND	0.5	1		ppb (v/v)	Tetrachloroethene	ND	0.5	1		ppb (v/v)
Methylene Chloride	ND	2.0	1		ppb (v/v)	Chlorobenzene	ND	0.5	1		ppb (v/v)
1,1-Dichloroethane	ND	0.5	1		ppb (v/v)	Xylenes (total)	ND	1.5	1		ppb (v/v)
Chloroform	ND	0.5	1		ppb (v/v)	Benzyl Chloride	ND	0.5	1		ppb (v/v)
1,2-Dichloroethane	ND	0.5	1		ppb (v/v)	1,3-Dichlorobenzene	ND	0.5	1		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5	1		ppb (v/v)	1,4-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Benzene	ND	0.5	1		ppb (v/v)	1,2-Dichlorobenzene	ND	0.5	1		ppb (v/v)
Carbon Tetrachloride	ND	0.5	1		ppb (v/v)						

00036

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received: 04/01/99
Work Order No: 99-04-0034
Preparation: N/A
Method: EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-870	Air	GC/MS [illegible]	N/A	[illegible]	K990402A [illegible]

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	105	106	60-140	1	0-30	
1,2-Dichloroethane	102	103	60-140	1	0-30	
Benzene	101	102	60-140	1	0-30	
Carbon Tetrachloride	93	93	60-140	0	0-30	
Trichloroethene	99	99	60-140	0	0-30	
Tetrachloroethene	100	103	60-140	3	0-30	
1,4-Dichlorobenzene	115	116	60-140	1	0-30	
1,2-Dichlorobenzene	118	119	60-140	0	0-30	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Project: Penrose Landfill / J152-6

Date Received:	04/01/99
Work Order No:	99-04-0034
Preparation:	N/A
Method:	EPA TO-15

LCS Sample Number	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-674	Air	GC/MS E	N/A	04/03/99	K990403A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	96	107	60-140	11	0-30	
1,2-Dichloroethane	108	111	60-140	3	0-30	
Benzene	103	105	60-140	2	0-30	
Carbon Tetrachloride	111	105	60-140	6	0-30	
Trichloroethene	102	104	60-140	3	0-30	
Tetrachloroethene	103	106	60-140	3	0-30	
1,4-Dichlorobenzene	128	126	60-140	1	0-30	
1,2-Dichlorobenzene	136	135	60-140	0	0-30	

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0034

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	03/31/99

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4			FIXED GAS		TOC	REMARKS
J152-6	3/31/99	9:31 Am	C	1	ISS #50	✓	✓	✓						
J152-6	3/31/99	9:55 Am	C	1	ISS #51	✓	✓	✓						
J152-6	3/31/99	10:30 Am	G	1	PPS U 637	✓	✓							
J152-6	3/31/99	11:45 Am	G	1	TSI	✓	✓				✓			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	4/1/99	1330
RECEIVED BY:	[illegible]	CATSCIENCE	4/1/99	1330
RELINQUISHED BY:	[illegible]	CATSC.	4/1/99	1610
RECEIVED BY:	[illegible]	CATSCE	4/1/99	1610
RELINQUISHED BY:				
RECEIVED BY:				

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Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

PAGE 1 OF 1

Client : Calscience Environmental Laboratories, Inc.

Client Sample ID : ISS#50
PAI Sample ID : P9900675-001

Test Code :	SCAQMD Method 25.1	Date Sampled :	3/31/99
Instrument :	HP5890A/FID/TCA	Date Received :	4/2/99
Analyst :	John Yokoyama / Wade Henton	Date Analyzed :	4/2/99
Matrix :	Tedlar Bag	Volume(s) Analyzed :	0.50 ml

D.F. = 1.00

CAS #	COMPOUND	RESULT ppm, v/v	REPORTING LIMIT ppm, v/v
74-82-8	Methane	1.9	0.50
	Total Gaseous Non-Methane Organics (as Methane)	ND	1.0

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: RG Date: 4/8/99

2665 Park Center Drive, Suite D, Simi Valley, California 93065 - Phone (805) 526-7161 - Fax (805) 526-2270

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Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS

PAGE 1 OF 1

Client : Calscience Environmental Laboratories, Inc.

Client Sample ID : ISS#51
PAI Sample ID : P9900675-002

Test Code :	SCAQMD Method 25.1	Date Sampled :	3/31/99
Instrument :	HP5890A/FID/TCA	Date Received :	4/2/99
Analyst :	John Yokoyama / Wade Henton	Date Analyzed :	4/2/99
Matrix :	Tedlar Bag	Volume(s) Analyzed :	0.50 ml

D.F. = 1.00

CAS #	COMPOUND	RESULT ppm, v/v	REPORTING LIMIT ppm, v/v
74-82-8	Methane	1.7	0.50
	Total Gaseous Non-Methane Organics (as Methane)	ND	1.0

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: RG Date: 4/8/99

2665 Park Center Drive, Suite D, Simi Valley, California 93065 • Phone (805) 526-7161 • Fax (805) 526-7270

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Performance Analytical Inc.
Air Quality Laboratory
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RESULTS OF ANALYSIS

PAGE 1 OF 1

Client : Calscience Environmental Laboratories, Inc.

Client Sample ID : PPSU37
PAI Sample ID : P9900675-003

Test Code :	SCAQMD Method 25.1	Date Sampled :	3/31/99
Instrument :	HP5890A/FID/TCA	Date Received :	4/2/99
Analyst :	John Yokoyama / Wade Henton	Date Analyzed :	4/2/99
Matrix :	Tedlar Bag	Volume(s) Analyzed :	0.50 ml

D.F. = 1.00

CAS #	COMPOUND	RESULT ppm, v/v	REPORTING LIMIT ppm, v/v
	Total Gaseous Non-Methane Organics (as Methane)	12	1.0

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: RG Date: 4/8/99

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Air Quality Laboratory
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RESULTS OF ANALYSIS

PAGE 1 OF 1

Client : Calscience Environmental Laboratories, Inc.

Client Sample ID : TSI
PAI Sample ID : P9900675-004

Test Code :	SCAQMD Method 25.1	Date Sampled :	3/31/99
Instrument :	HP5890A/FID/TCA	Date Received :	4/2/99
Analyst :	John Yokoyama / Wade Henton	Date Analyzed :	4/2/99
Matrix :	Tedlar Bag	Volume(s) Analyzed :	0.50 ml

D.F. = 1.00

CAS #	COMPOUND	RESULT ppm, v/v	REPORTING LIMIT ppm, v/v
	Total Gaseous Non-Methane Organics (as Methane)	190	1.0

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: RG Date: 4/8/99

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Performance Analytical Inc.
Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF METHANE ANALYSIS

PAGE 1 OF 1

Client: **Calscience Environmental Laboratories, Inc.**

Client Project ID: 99-04-0034
PAI Project ID: P9900675

Test Code: GC/TCD
Instrument ID: HP5890/TCD #1
Analyst: John Yokoyama / Wade Henton
Matrix: Tedlar Bag(s)

Date Sampled: 3/31/99
Date Received: 4/2/99
Date Analyzed: 4/2/99
Volume(s) Analyzed: 0.10 ml

Client Sample ID	PAI Sample ID	D.F.	Methane (%, v/v) Result	Reporting Limit
PPSU37	P9900675-003	1.00	1.97	0.100
TSI	P9900675-004	1.00	41.8	0.100
Method Blank	P990402-MB	1.00	ND	0.100

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: RG Date: 4/8/99

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Air Quality Laboratory
A Division of Columbia Analytical Services, Inc.
An Employee Owned Company

RESULTS OF ANALYSIS
PAGE 1 OF 1

Client : Calscience Environmental Laboratories, Inc.

Client Sample ID : Method Blank
PAI Sample ID : P990402-MB

Test Code :	SCAQMD Method 25.1	Date Sampled :	NA
Instrument :	HP5890A/FID/TCA	Date Received :	NA
Analyst :	John Yokoyama / Wade Henton	Date Analyzed :	4/2/99
Matrix :	Tedlar Bag	Volume(s) Analyzed :	0.50 ml

D.F. = 1.00

CAS #	COMPOUND	RESULT ppm, v/v	REPORTING LIMIT ppm, v/v
74-82-8	Methane	ND	0.50
	Total Gaseous Non-Methane Organics (as Methane)	ND	1.0

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified By: RG Date: 4/8/99

2665 Park Center Drive, Suite D, Simi Valley, California 93065 • Phone (805) 526-7161 • Fax (805) 526-7270

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

P9900675

CHAIN OF CUSTODY RECORD

Date 4/1/99

Page 1 of 1

LABORATORY CLIENT:

ADDRESS:

CITY STATE ZIP

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: 99-04-0034

PROJECT CONTACT: Jody McInerney

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

Fax results

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) (O)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EDB / DBCP (504.1) or (8011)	CAC, T22 METALS (6010B)	ICP/MS METALS (6020)	PNAs (8310)	VOCs (TO-14A) or (TO-15)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1) or (D1946)
-001	ISS#50		3/31/99		A	1														X	
-002	ISS#51		↓		↓	↓														X	
-003	FPSU37																			X	
-004	TSI																			X	

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Received by: (Signature) FED EX

Received by: (Signature)

Received for Laboratory by: (Signature)

Date: 4/1/99 Time: 1730

Date: 4-2-99 Time: 920

Date: Time:

DISTRIBUTION: White with final report. Green to File. Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

02/01/99 Revision

04/08/1999 15:08 8055267270 PERFORMANCE PAGE 14/14

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000910

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EXHIBIT E

Documentation for Annual Requirements

First Quarter, 1999

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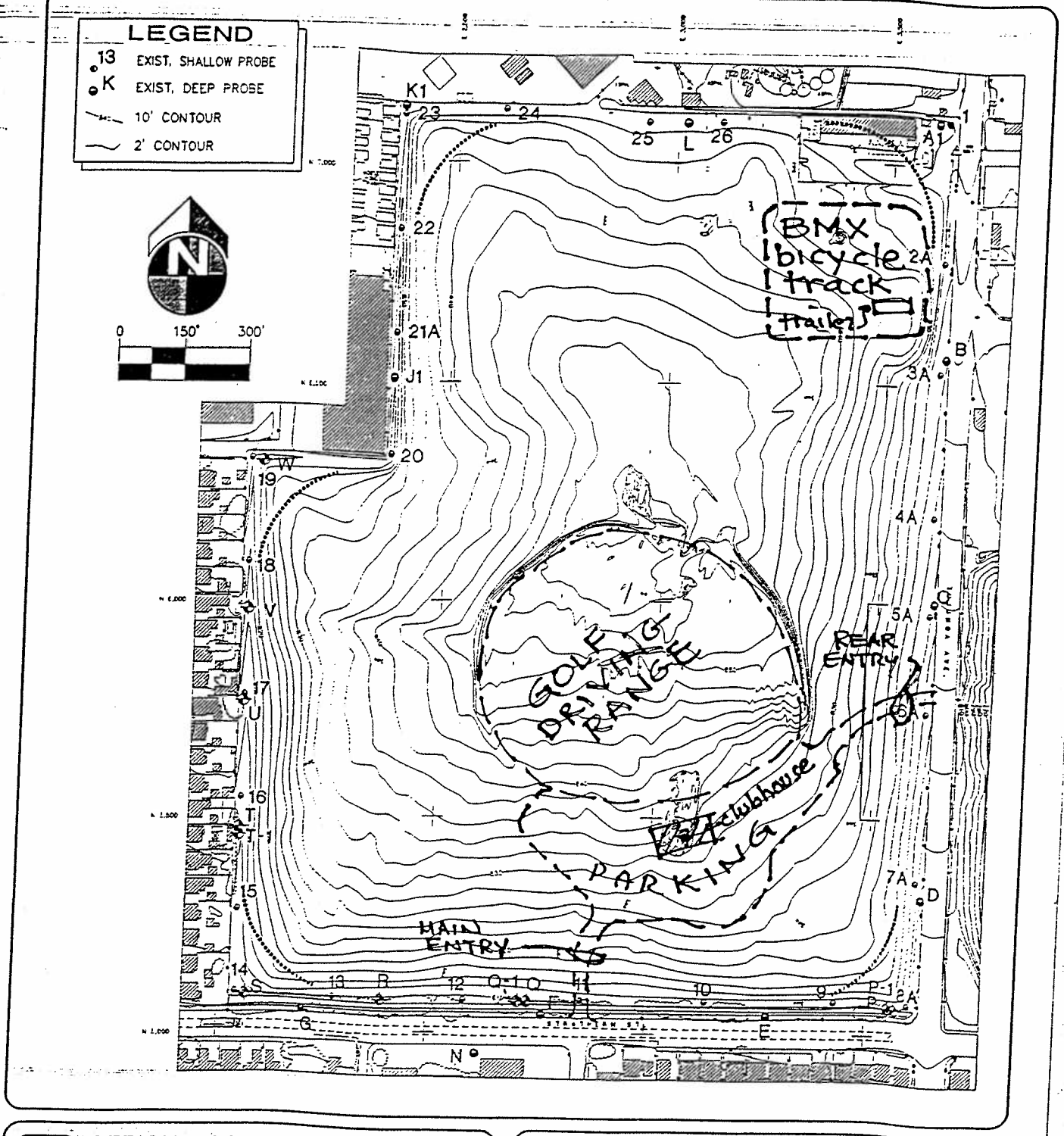
PEIROSE LANDFILL MONITORING PROBE LOCATIONS



SEPICH ASSOCIATES, Inc.
CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND GAS CONTROL SPECIALISTS
680 WALNUT ST.
MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001

Ogden Power Pacific
13181 Crossroads Parkway North, Suite 250
City of Industry, California 91746
Tel: (562) 695-2442 Fax: (562) 645-5223

SHEET ___ OF ___

2-10-99 .1152-6PL

PENROSE LANDFILL - Landfill Gas Generation

YEAR	Estimated Generation (MMBTU)	Collection Efficiency	Collected (MMBTU)
ACTUAL:			
1988	533,722	85.00%	453,664
1989	507,036	85.78%	434,912
1990	481,684	83.78%	403,572
1991	457,600	78.25%	358,055
1992	434,720	83.57%	363,291
1993	412,984	94.40%	389,842
1994	395,045	85.00%	335,788
1995	404,104	85.00%	343,488
1996	407,191	85.00%	346,112
1997	377,488	85.00%	320,865
1998	368,555	85.00%	313,272
PROJECTED:			
1999	350,127	85.00%	297,608
2000	332,621	85.00%	282,728
2001	315,990	85.00%	268,592
2002	300,191	85.00%	255,162
2003	285,181	85.00%	242,404
2004	270,922	85.00%	230,284
2005	257,376	85.00%	218,770
2006	244,507	85.00%	207,831
2007	232,282	85.00%	197,440

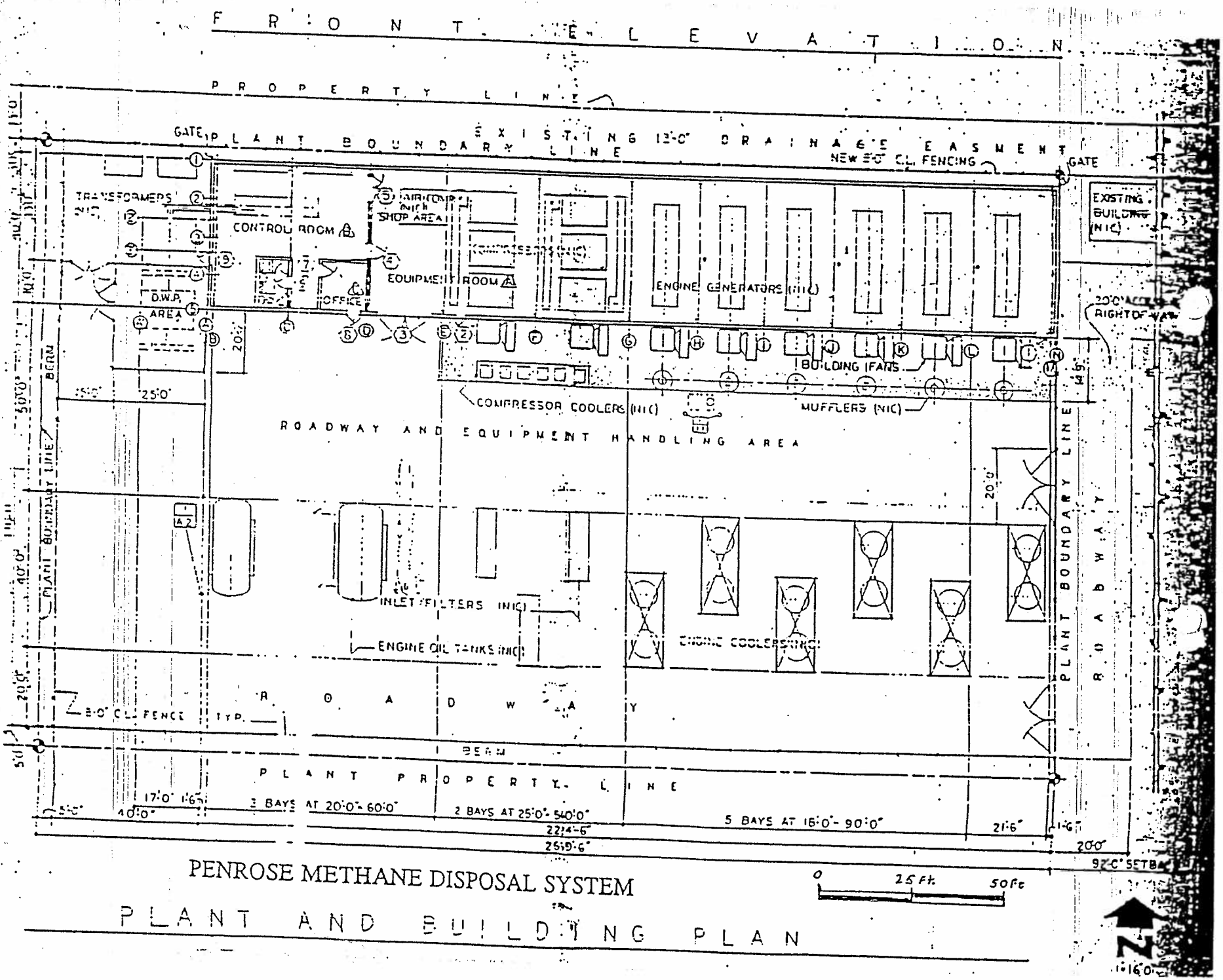
NOTES:

(1) The amount of landfill gas collected during the years 1988 through 1998 represents the actual amount of (Penrose) landfill gas burned at the Penrose electrical generation facility.

(2) The estimate of landfill gas being generated is based on an assumed 85% collection efficiency and an average decline in generation of 5% each year.

(3) The 5% decline in landfill gas generation is based on Ogden Power Pacific's experience with other landfills and the average annual gas generation decline, based on historical collection rates at Penrose.

(4) The "Projected" portion of this table was computer generated by Methane Specialists based on Ogden Power Pacific's projection method. The "Actual" portion of this table are values from Ogden Power Pacific.



PENROSE METHANE DISPOSAL SYSTEM

PLANT AND BUILDING PLAN

CONFIDENTIAL

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SEPICH ASSOCIATES, Inc.
and METHANE SPECIALISTS
located in the walnut adobe
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January 21, 1999

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Fourth Quarter, 1998
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the twenty first quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October through December 1998.

Monitoring and sampling for this report was performed on October 6 and 26, November 2, 5, 13, and 25, and December 1, 9, 14, 21, and 22, 1998.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989, the Guidelines were incorporated into the amended Rule 1150.1 on April 10, 1998) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products (LABP) was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe monitoring (PPM) and sampling (PPS), integrated surface sampling (ISS), instantaneous surface monitoring (ISM), ambient air sampling, and plant inlet (TSI, for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Ambient air sampling requirements are not included in the routine quarterly monitoring for Penrose. Per Rule 1150.1 simultaneous source tests at the inlet and outlet of the gas disposal system are done at Penrose on an annual basis, and reported in the next quarterly report after data is available.

On April 10, 1998 SCAQMD approved an amended version of Rule 1150.1: Control of Gaseous Emissions from Municipal Solid Waste (MSW) Landfill. The amended Rule required that owners of all MSW landfills within the district submit a statement of intent to comply with the amended Rule within 90 days of the amendment date. On July 10, 1998, Sepich Associates/Methane Specialists prepared and submitted a revised compliance plan to SCAQMD for the Los Angeles By-Products Company. Per § (k) of the amended Rule the submittal for Penrose LF contains exemptions subject to SCAQMD approval. The previous compliance plan will be in effect until SCAQMD approval of the revised plan is received. SCAQMD approval had not yet been received at the time of submittal of this report.

The application submitted by Los Angeles By-Products Company for Penrose LF for the new amended Rule includes changes from the old Rule. When SCAQMD approves, or requests changes in the submitted application for the amended Rule, the text in the quarterly reports will be changed to reflect the organization and terminology used to reflect our compliance to SCAQMD's requests.

A.1 *Subsurface Refuse Boundary Probe Monitoring (Attachment A, 1.2)*

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

1.2.1: If the TOC concentrations *measured with the FID does not exceed 5% by volume in any of the probes, collect one bag sample from one probe with the highest concentration, or*

1.2.2: If the TOC concentration *measured with the FID exceeds 5% by volume, collect one bag sample per probe from the probes with the highest concentrations above 5% by volume, from at least five probes.*

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.
2. Types and weights of waste materials deposited in the reporting year.
3. Total amount of waste materials deposited to date.
4. Contour map showing updated landfill boundary.
5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.
6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, October through December 1998, field monitoring was conducted on October 6 and 26, November 2, 5, 13, and 25, and December 1, 9, 14, 21, and 22, 1998. Additional perimeter probe monitoring results collected by David Thompson from the City of Los Angeles, Environmental Affairs Department (LEA), are included in Table I. Samples were collected for laboratory analysis on November 2, December 1, and December 22, 1998 (see Exhibit C for field documentation and Exhibit D for laboratory results).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on November 5 and December 9, 1998 was conducted by Sepich Associates/Methane Specialists personnel using a Bacharach HPK Combustible Gas Detector. Perimeter probe monitoring on October 6 (partial) and 26, November 25, and December 22, 1998 was conducted by LABP personnel using a GasTech Natural Gas Indicator Model NPL-204. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California. Method SCAQMD 25.1 analyses of samples collected in December were performed by Advanced Technology Laboratories in Signal Hills, California.

Perimeter probe sampling was conducted at Probes U (68') and V (40') on November 2, at Probe U (37' and 68') on December 1, and at Probe E on December 21, 1998. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on November 2, December 1, and December 21, 1998. On November 2 and December 1, Areas 42 and 43 were sampled (see Integrated Surface Sampling Map in Exhibits A and C), and on December 21, Areas 44 and 45 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. All ISS field monitoring results for the Fourth Quarter TOC and H_2S concentrations were non-detect. Laboratory results are summarized in Table IV.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path B was traversed on October 26, and December 14, 1998. Path A was traversed on November 13, 1998. In October, November, and December no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Ogden Power Pacific, Inc. electrical generation plant inlet pipeline on November 2, December 1, and December 21, 1998. TOC was monitored with a GasTech Natural Gas Meter, Model NPL-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were last collected on August 22, 1997 and results of inlet analyses were reported in the third and fourth quarter 1997 reports.

B.6 Reporting Requirements

This is the twenty first in a series of quarterly reports and the fourth quarterly report for Penrose Landfill for 1998. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Sepich Associates/Methane Specialists and LABP. The first bi-monthly monitoring was not properly completed in October 1998 due to the transition to a new monitoring contractor at that time. The early (to mid-) month data is usually used to select the monthly probe sampling stations and the (mid to) late-month monitoring is used to fulfill any required follow-up probe monitoring. If gas is detected by agency inspectors their findings may influence the selection of probe sampling stations. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are attached in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

Perimeter probe monitoring on October 6, 1998 detected TOC at Probe P (20% @ 40'), Probe R (15% @ 40'), Probe T (7.5% @ 40'), Probe U (30% @ 37 'and 36% @ 68'), and Probe V (28% @ 40' and 19% @ 73'). Mitigation measures were implemented and on October 26, 1998, perimeter probe monitoring resulted in non-detect readings at all probes. On November 2, 1998, Probe U (@ 68') and Probe V (@ 40') were sampled (see lab results in Table I).

Table I - October 1998
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBES SAMPLED ON November 2, 1998

Probe No.	Depth (ft)	TOC 10/26/98 (% Vol)	TOC (LEA) 10/30/98 (% Vol)	TOC 11/2/98 (% Vol)	Lab Results 11/2/98 (% Vol)	Follow up TOC 11/5/98 (% Vol)
U	68	ND	29	ND	2.1	37
V	40	ND	ND	ND	0.0027	trace

Note: Laboratory samples were collected 11/2/98. Field values are volume percent TOC.

ND = None detected NA = Not Available

November 5, 1998 perimeter probe monitoring results showed high combustible gas readings at Probe U (20% @ 37' and 37% @ 68'). Mitigation measures were implemented and on November 25, 1998 perimeter probe monitoring resulted in all readings less than 1% of volume TOC. Probe U (at the 37-foot and 68-foot depths) was sampled on December 1, 1998. Laboratory analytical results are presented in Table II below and in Exhibit D.

Table II - November 1998
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON December 1, 1998

Probe No.	Depth (ft)	TOC 11/5/98 (% Vol)	TOC 11/25/98 (% Vol)	TOC 12/1/98 (% Vol)	Lab Result 12/1/98 (% Vol)	Follow up TOC 9/10/98 (% Vol)
U	37	20	ND	ND	0.074	ND
U	68	37	ND	6	4.2	ND

Note: Laboratory samples were collected 12/1/98. Laboratory results are volume percent of methane. Field values are volume percent TOC.

Perimeter probe monitoring on December 9, 1998 showed a high combustible gas reading at Probe E. On December 21, 1998, Probe E was sampled (see lab results in Table III).

Table III - December 1998
SUMMARY OF FIELD TOC AND METHANE CONCENTRATIONS
FOR PERIMETER PROBE SAMPLED ON December 21, 1998

Probe No.	Depth (ft)	TOC 12/9/98 (% Vol)	TOC 12/21/98 (% Vol)	Lab Results 12/21/98 (% Vol)	Follow-up TOC 12/22/98 (% Vol)
E	18	13	ND	<0.001	ND

Note: Laboratory samples were collected 12/21/98. Laboratory results are volume percent of methane. Field values are volume percent TOC. Follow-up mitigation measures quickly reduced the gas at Probe E.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. Table IV summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FOURTH QUARTER 1998
SUMMARY of ANALYTICAL RESULTS from INTEGRATED SURFACE SAMPLE

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
11/2/98 AREA # 42	4	14
11/2/98 AREA # 43	5	13
12/1/98 AREA # 42	<10	<10
12/1/98 AREA # 43	<10	<10
12/21/98 AREA # 44	<10	<10
12/21/98 AREA # 45	<10	<10

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Fourth Quarter of 1998.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 39.8% methane on November 2, 34.6% methane on December 1, and 38.7% methane on December 21, 1998. Dreager tube analytical results were 95 ppm H_2S on November 2 and 90 ppm H_2S on December 1 and 21, 1998. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling was conducted on August 22, 1997. The analytical results from the samples collected at the plant inlet and generator exhaust, for source testing in 1997, were included in Exhibit E of the Third and Fourth Quarter 1997 Reports.

C.6 Report Requirements

This report is the 1998, Fourth Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

LABP detected high TOC concentrations from perimeter probes during the October 6, 1998 monitoring events. David Thompson (LEA) detected high TOC concentrations from perimeter probes on October 30, 1998. Mitigation methods, including selective gas extraction from the areas of excessive landfill gas (LFG) migration, were enacted and follow-up monitoring of the same probes was performed in compliance with SCAQMD Rule 1150.1.

Major compliance endeavors enacted by Los Angeles By-Products Company and Ogden Power Pacific in the past several years include:

- Mitigation well (8 wells) program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter 1995 (including changing the gas collection system); probes 2 through 8 were replaced at this time; and
- Replacement probe (A1, K1, and J1) installation in Fourth Quarter, 1995.
- Closure plan construction at clubhouse and BMX track locations in 1997 and 1998.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO.
C 37509
exp. 6-30-2000
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.621/atf

Public Facilities Branch / SCAQMD January 21, 1999

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Mr. David Thompson

California Integrated Waste Management Board

- Mr. Peter Janicke

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Fourth Quarter, 1998
- EXHIBIT D: Laboratory Analytical Results - Fourth Quarter, 1998

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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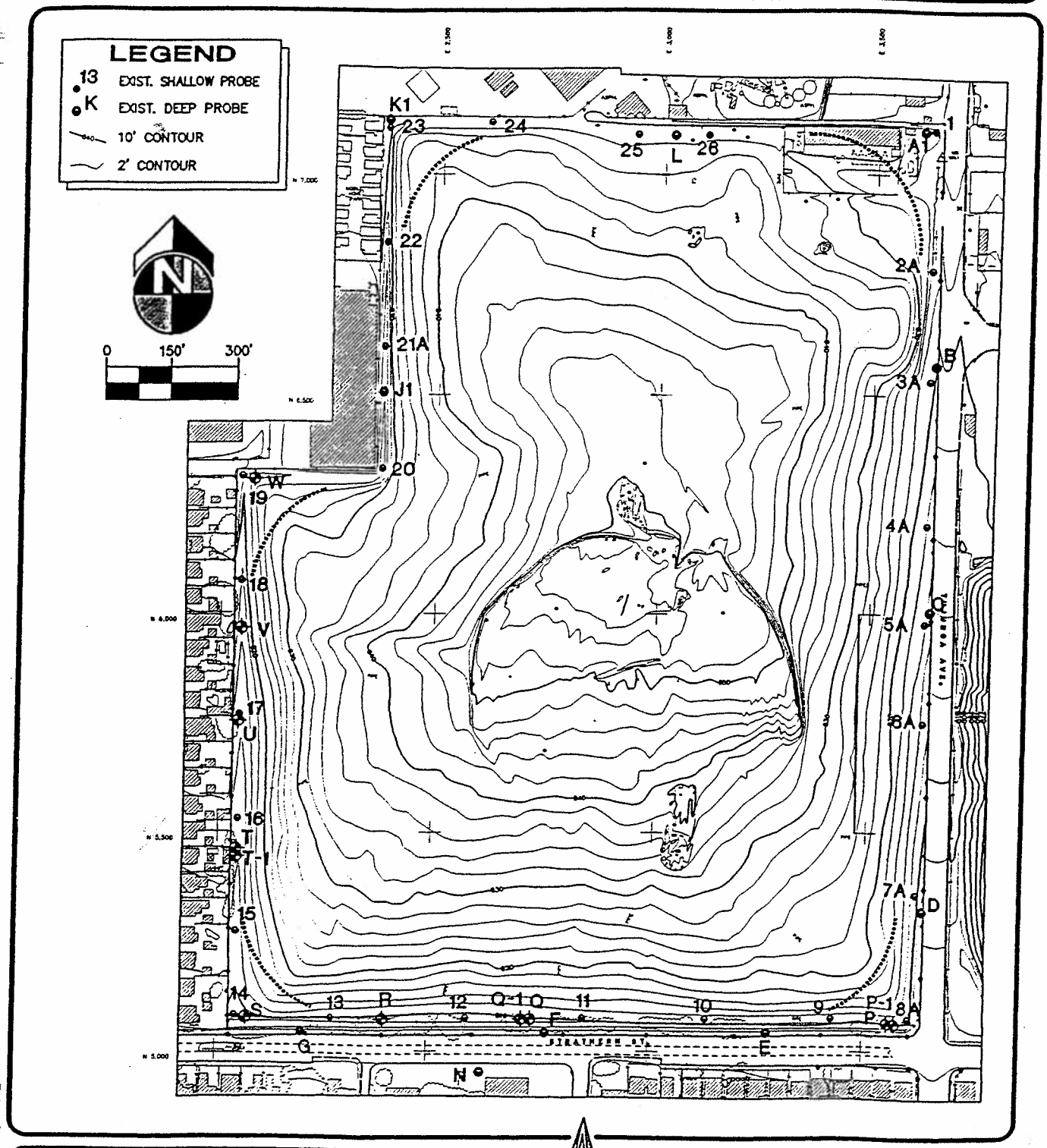
PE. JROSE LAN DFILL
MONITORING PROBE LOCATIONS



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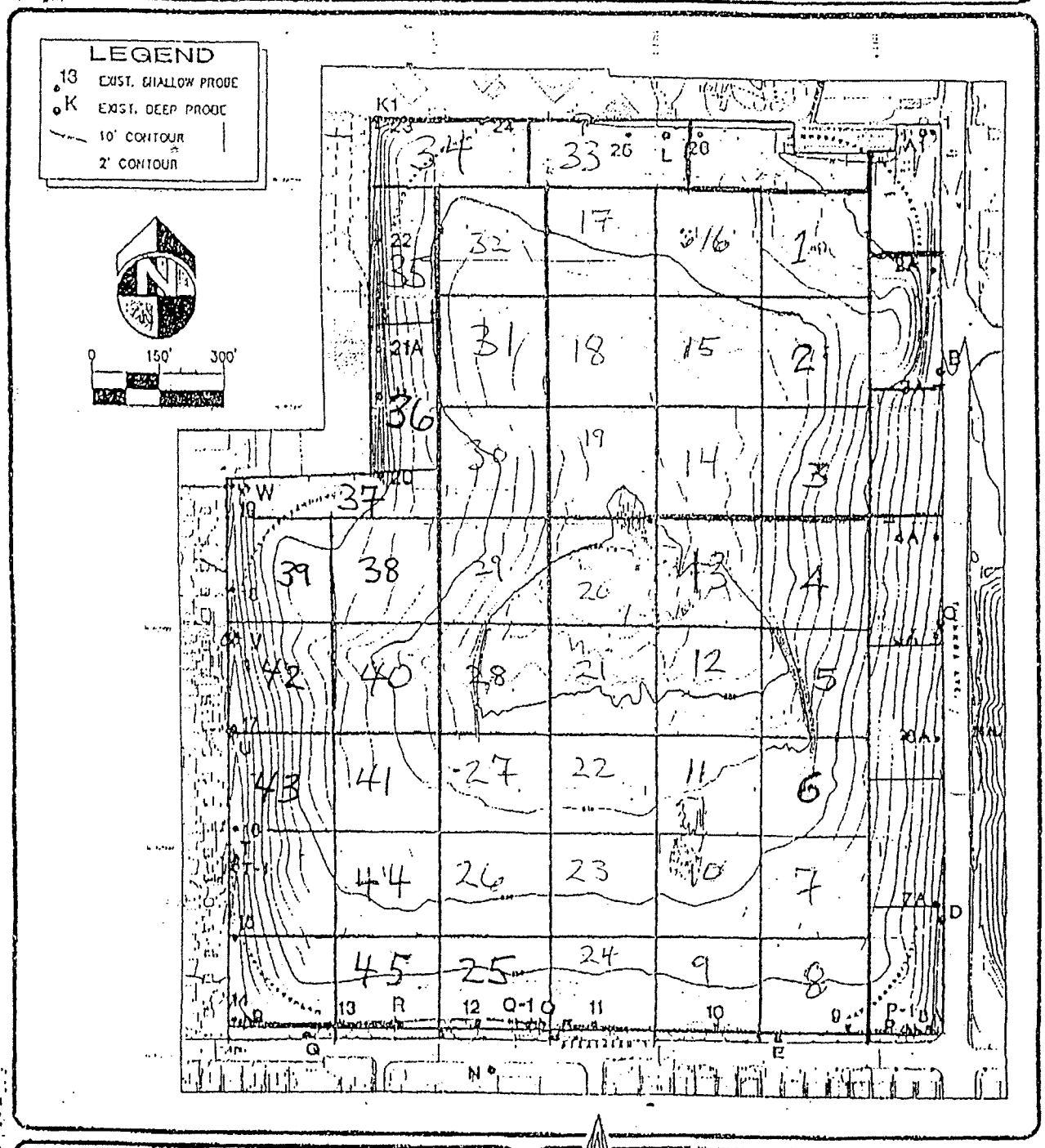
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



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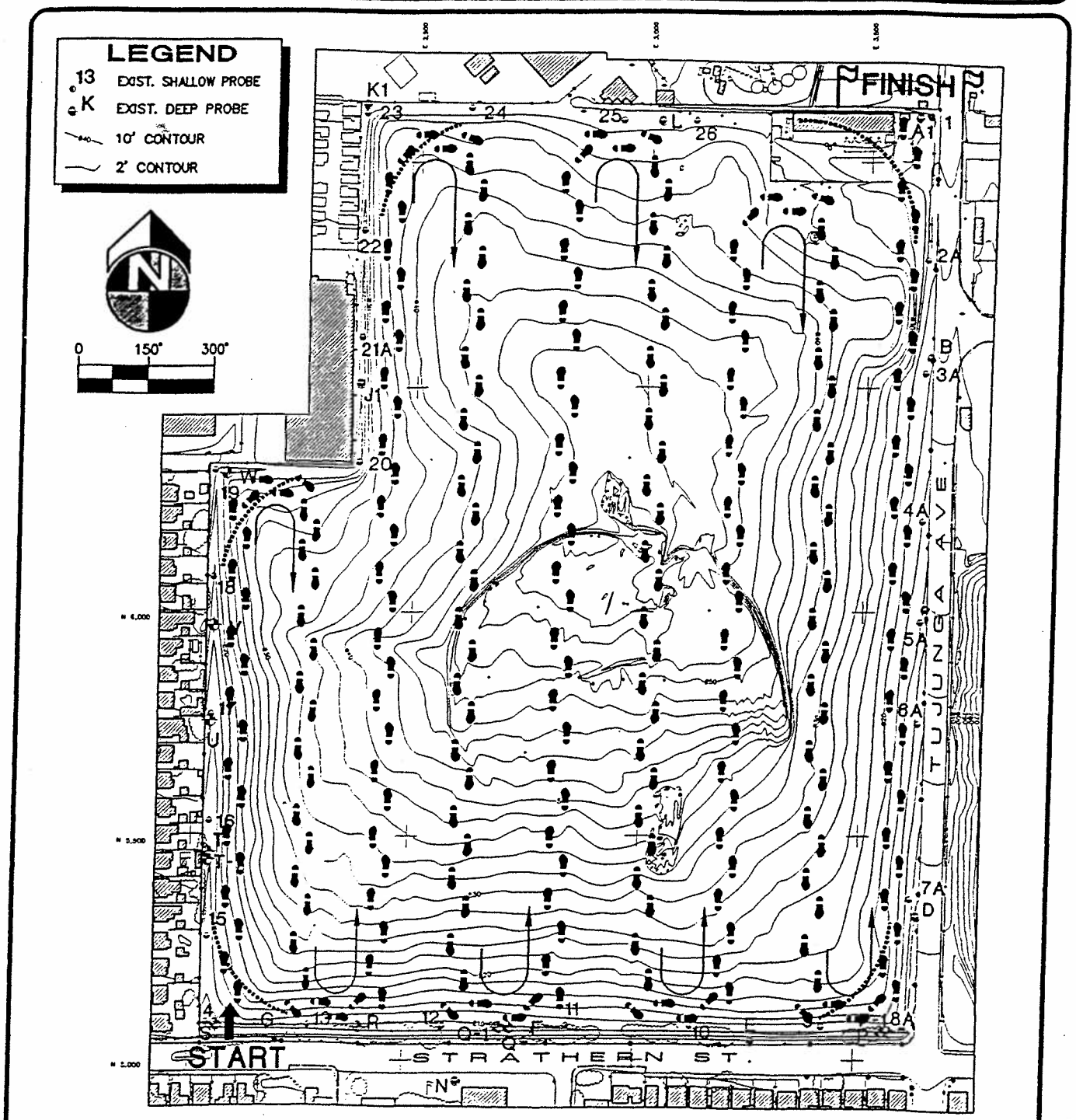
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



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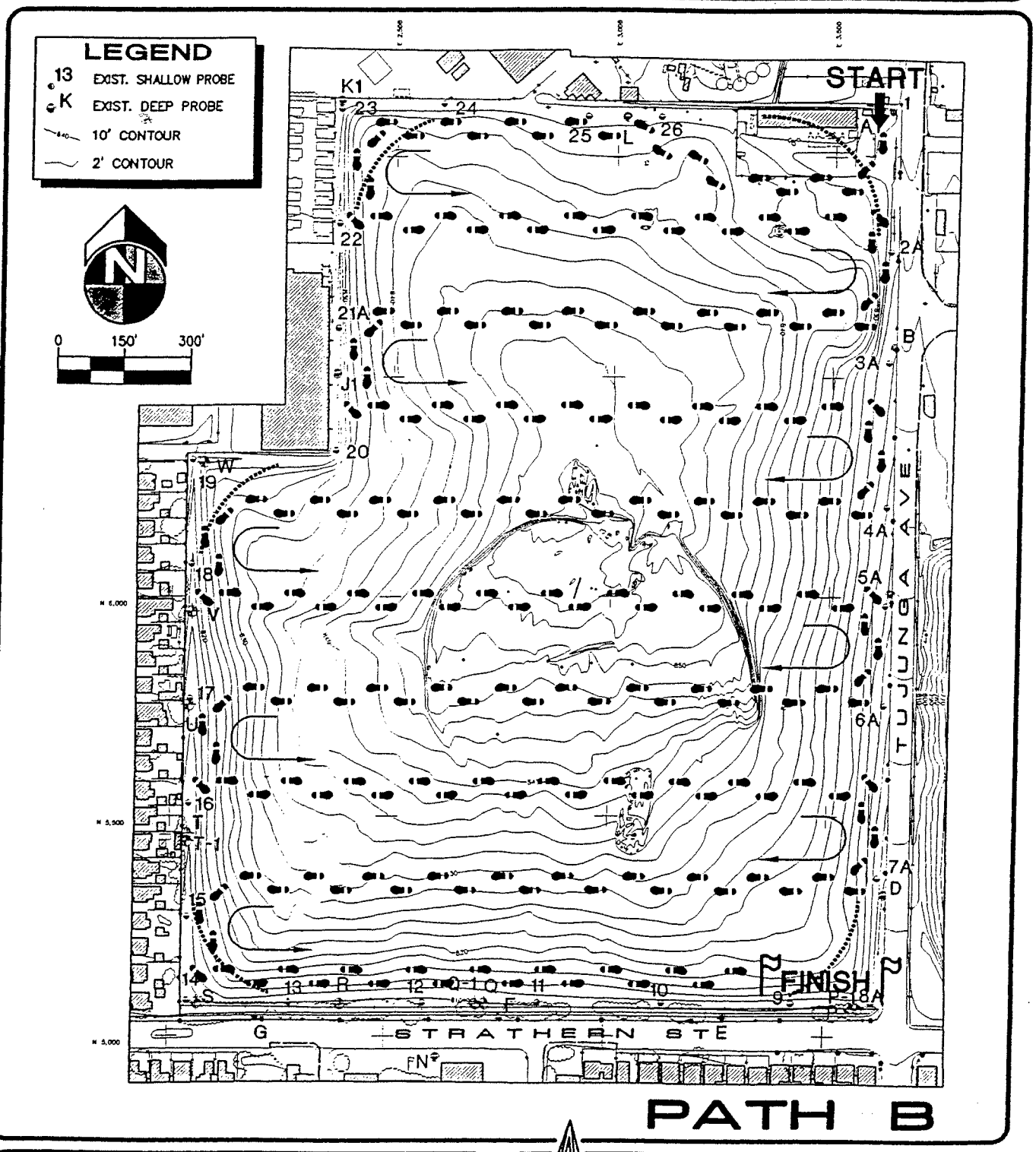
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



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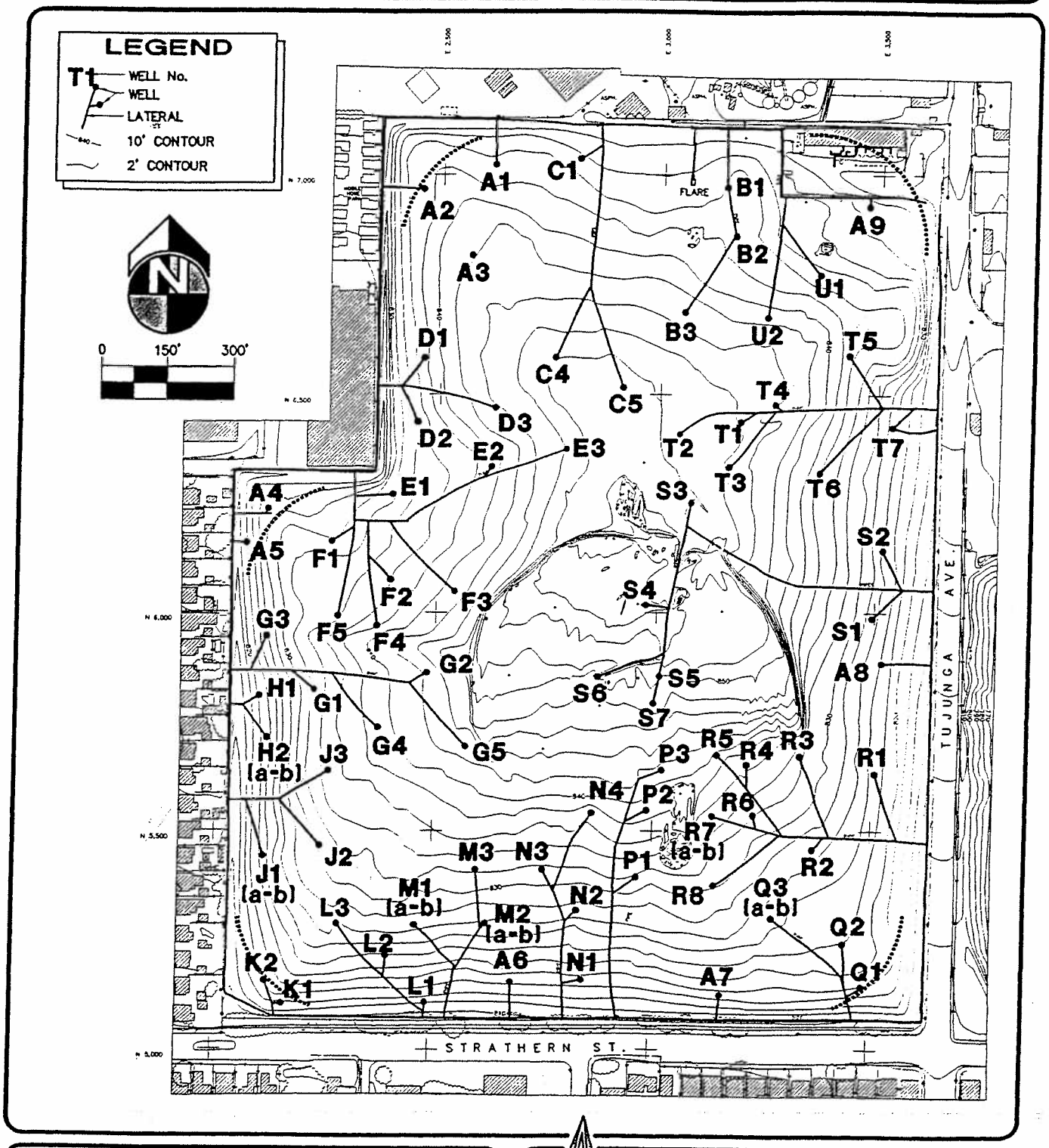
PENROSE LANDFILL GAS COLLECTION SYSTEM



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3-12-98 WELL-SYS

SHEET OF

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EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Fourth Quarter, 1998

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SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST. MOORPARK, CA 93021
TEL (818) 707-3038 (805) 552-0000 FAX (818) 707-3012 (805) 552-0001

JOB NAME: PENROSE

JOB No. J152-6
DATE 10/26/98

INSPECTION REPORT

CLIMATE: bright, clear, fog, (cloudy), overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, (86°-100°), >100° F | still, breeze, (wind) | dry, (moderate), humid

LOCATION: PENROSE

PURPOSE: Perimeter Probe monitor

CONTRACTOR(S): ROBERT McAllister

REMARKS: Began at 1:00 pm and finished MONITOR AT 3:45 pm. STRONG SOUTH WIND AT 3.4 to 6.0 mph. RESULT FOR MONITOR ND. Could not locate probe #18 OR L.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

10/10/97

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3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 10/6/98

INSPECTION REPORT

CLIMATE: (bright) (cloudy) clear overcast fog rain | <32° F 33°-55° 56°-70° (71°-85°) 86°-100° >100° F | still (breeze) wind | dry (moderate) humid

LOCATION: PENROSE

PURPOSE: Perimeter Probe Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Monitor began at 1:15 pm. Scattered clouds with bright sunshine, also a South wind 2.4 to 5.6 mph. The following probes were monitored with the following Result.

V	10	ND	S	10	ND	P	10	.8%
	40	28%		40	ND		40	20%
	80	19%		80	ND		80	ND
				120	ND			
U	10	ND						
	37	30%	R	10	ND			
	~~68~~ 70	36%		40	15%			
				80	ND			
T	10	ND						
	40	7.5%	Q	TALL	ND			
	73	ND		MED	7%			
				SHORT	ND			

☒ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

000905

CONFIDENTIAL

SEPICH ASSOCIATES
METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST. MOORPARK, CA 93021
TEL (818)707-3036 (805) 552-0000 FAX (818)707-3012 (805) 552-0001

JOB NAME: PENROSE

JOB No. J152-6

DATE 10/26/98

INSPECTION REPORT

CLIMATE: bright, clouds, clear, overcast, fog, rain | <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: Perimeter Probe monitor

CONTRACTOR(S): ROBERT McAllister

REMARKS: Began at 1:00 pm and finished MONITOR AT 3:45 pm. STRONG SOUTH WIND AT 3.4 to 6.0 mph. RESULT FOR MONITOR ND. Could not locate probe #18 OR L.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

10/10/91

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NOTICE OF INSPECTION
CLOSED LANDFILLS

FACILITY: Penrose Landfill
SWIS: 19-AR-0006
INSPECTION DATE: October 30, 1998

Violation

The following violation of Title 27, California Code of Regulations (CCR) was noted during the inspection:

§20937. Gas Control

Corrective action developed and implemented when gas monitoring indicates concentrations of methane in excess of 1.25% within on-site structures and/or 5.0% at the property boundary.

Landfill gas monitoring was conducted with a Landtec GA-90 with an attached hydrocarbon filter. Landfill gas was detected above the regulatory limit at perimeter probes U (68 ft) and U (37 ft). No landfill gas was detected in the other perimeter probes that were hot the previous month. LA By-Products is required to take steps to prevent the off-site migration of landfill gas. Provide the LEA with a compliance plan that will be used to control the off-site migration of landfill gas.

Probe P (Left)	ND	Probe Q (Short)	ND	Probe R (10')	ND
Probe P (Right)	ND	Probe Q (Medium)	ND	Probe R (40')	ND
Probe P (North)	ND	Probe Q (Tall)	ND	Probe R (80')	ND
				Probe R (120')	ND
Probe T (10')	ND	Probe U (Shallow)	ND	Probe V (Shallow)	ND
Probe T (40')	ND	Probe U (37')	22.6 %	Probe V (40')	ND
Probe T (Deep)	ND	Probe U (68')	29.0 %	Probe V (80')	ND
Probe T-1	ND				

* All readings are given as percent by volume in air ** ND – Non-Detect

Area of Concern

The following area of concern of Title 27, California Code of Regulations (CCR) was noted during the inspection:

§20750. Site Maintenance

The operator shall implement a preventative maintenance program to monitor and promptly repair or correct deteriorated or defective conditions with respect to requirements of the CIWMB standards, and conditions established by the LEA. All other aspects of the disposal site shall be kept in a state of reasonable repair.

The vault boxes for perimeter probes E, F, G and N have been repaired and are accessible for monitoring. The operator is in the process of getting the necessary equipment to fix the broken Probe N (Red). Some of the probes are missing identification tags and need to be relabeled.

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STATE OF CALIFORNIA
CIWMB-56 (5/97)

Closed Facility Inspection Report

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Enforcement Agency: City of Los Angeles

FACILITY FILE NUMBER	PROGRAM CODE (LOCAL = L, STATE = S)	INSPECTION DATE (MM DD YY)	TIME IN / TIME OUT	INSPECTION TIME
19-AR-0006	L	10/30/98		

FACILITY NAME	Penrose Landfill
FACILITY LOCATION	8300 Tujunga Ave, Sun Va
INSPECTOR	DAVID THOMPSON
INSPECTOR SIGNATURE	[signature]
RECEIVED BY (OPERATOR)	Mail
OWNER	
ALSO PRESENT	

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 30 OF THE PUBLIC RESOURCES CODE (PRC) AND TITLE 27 CALIFORNIA CODE OF REGULATION (CCR).

THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING: V = VIOLATION A = AREA OF CONCERN NA = NOT APPLICABLE

SITES SUBJECT TO ARTICLE 2 STANDARDS

CLOSED SITES

	V	A	NA
CLOSURE PLANS			
21880 - CERTIFICATION OF CLOSURE			
21890 - REVISION OF APPROVED PLANS FOR C/PC MAINTENANCE			
RECORDS			
21130 - EMERGENCY RESPONSE PLAN			
21170 - RECORDING			
21200 - CHANGE OF OWNERSHIP			
SECURITY			
21135 - SECURITY AT CLOSED SITES			
GRADING			
21142 - FINAL GRADING			
21145 - SLOPE STABILITY			
DRAINAGE AND EROSION CONTROL			
21150 - DRAINAGE/EROSION CONTROL			
MONITORING AND CONTROL SYSTEMS			
21160 - LF GAS CONTROL/LEACHATE CONTACT			
GAS MONITORING AND CONTROL SYSTEMS			
20918 - EXEMPTIONS			
20919 - GAS CONTROLS			
20921 - GAS MONITORING/CONTROL			
20923 - MONITORING			

GAS MONITORING AND CONTROL SYSTEMS	V	A	NA
20925 - PERIMETER MONITORING NETWORK			
20931 - STRUCTURE MONITORING			
20932 - MONITORED PARAMETERS			
20933 - MONITORING FREQUENCY			
20934 - REPORTING			
20937 - CONTROL	X		
POSTCLOSURE			
21180 - POSTCLOSURE MAINTENANCE			
21190 - POSTCLOSURE LAND USE			
OTHER			
20750 - Site Maintenance		X	
SITES UNDERGOING CLOSURE			
21110 - TIME FRAMES FOR CLOSURE			
21137 - STRUCTURE REMOVAL			
21140 - FINAL COVER			
OTHER			

COMMENTS (USE SWIS-93 FOR ADDITIONAL SPACE)

Violation - Gas Control (20937)

Area of Concern - Site Maintenance (20750)

See attached report

RECEIVED
NOV 09 1998
L.A. BY PROD. CO.

DISTRIBUTION: TOP - CIWMB MIDDLE - EA BOTTOM - OPERATOR

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/2/98

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / ~~overcast~~ / fog / rain

<~~32°~~ F / 71°-85° / 33°-55° / 86°-100° / 56°-70° / >100° F

~~still~~ / breeze / wind

dry / ~~moderate~~ / humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): Robert McAllister

REMARKS: Electronic Wind speed indicator detected ND. Last rainfall was over 72 hours ago. All air samples were collected in 10-liter Tedlar bags and placed in a Black Trash bag for protection from sunlight. The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on Sept. 8, 1998. The TOC instrument used was a Natural Gas Indicator model npl-204, last calibrated by J.G. Tucker and son on 8/7/98. The ISS were collected in a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET ..OF__

000930

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
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TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/2/98

REMARKS CONTINUED:

The H_2S level was determined by Drager tubes and a Drager pump.

The ISS #42 was collected at 8:05 Am and tested for OVA (ND) and H_2S (ND). The ISS #43 was collected at 8:40 Am and tested for OVA (ND) and H_2S (ND). The PPS U 68' was collected at 9:15 Am and tested for TOC (ND) and H_2S (ND). The PPS V 40' was collected at 9:50 Am and tested for TOC (ND) and H_2S (ND). The TSI was collected at 11:30 Am and tested for TOC (43%) and H_2S (95 ppm).

Robert McAllister
INSPECTOR

PRINCIPAL

JS-0075 4/15/94

SHEET__OF__

000940

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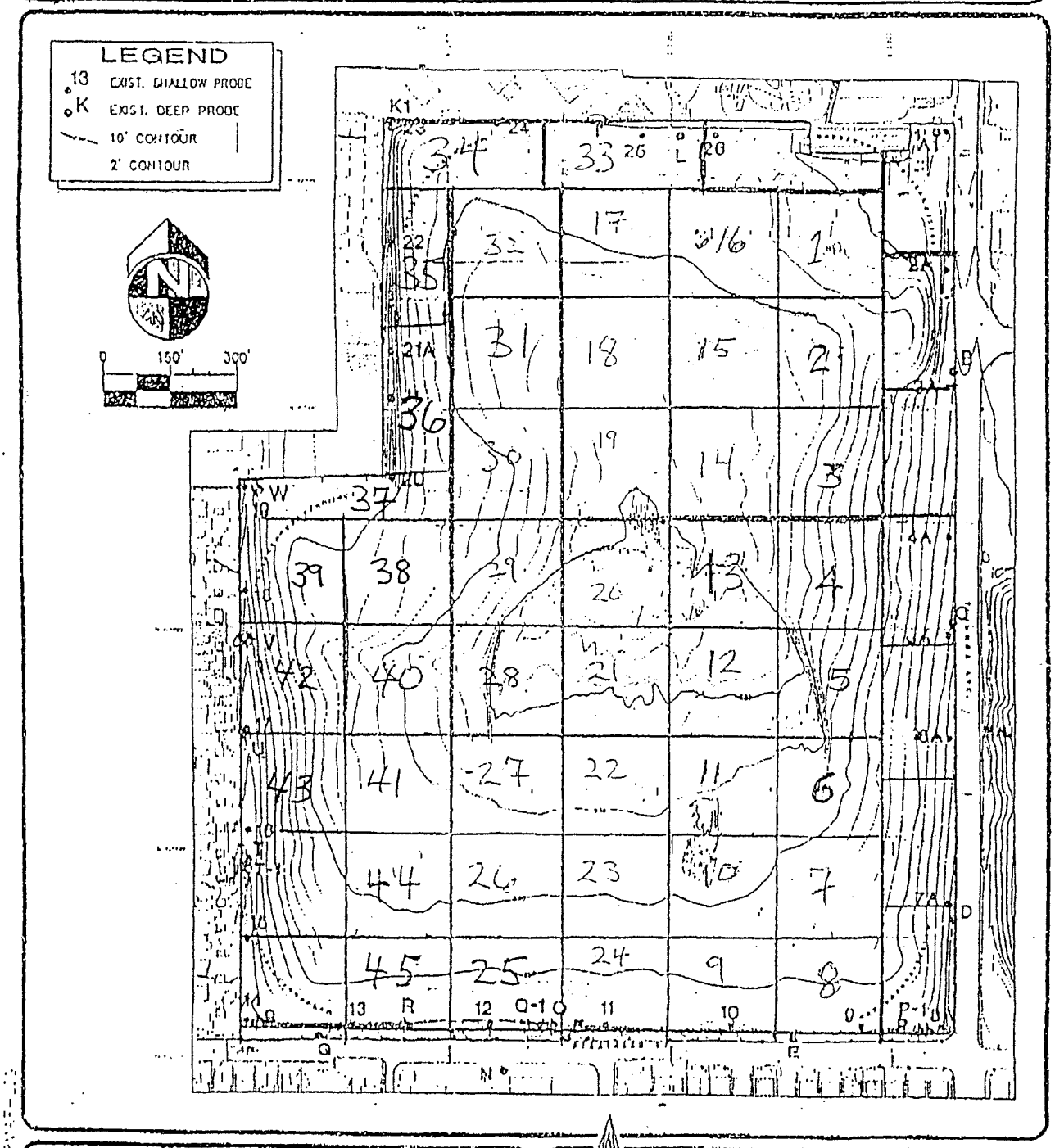
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



SEPICH ASSOCIATES, Inc.
3017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-0321
FAX: (818) 707-3012 (805) 373-0987
CIVIL ENGINEERS SANITARY ENVIRONMENTAL WASTE AND GAS CONTROL SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1923
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 · Fax: (213) 233-4170

SHEET ___ OF ___

TOTAL P.01

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Los Angeles By-Products Co.
Incorporated 1925
1010 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 11/2/98
Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	H_2S	OVA
ISS #42	ND	ND
ISS #43	ND	ND

REMARKS: - Cool weather - OVERCAST - NO WIND -
ISS #42 - 8:05 AM TSI - 11:30 AM
ISS #43 - 8:40 AM
PPS U 65 - 9:15 AM
PPS V 40 - 9:50 AM

PROBE #				
B				
C	GREEN-21'			
	YELLOW-41'			
	ORANGE-61'			
	RED-81'			
D				
E				
F				
G				
H				
I	GREEN-17'			
	YELLOW-37'			
	ORANGE-57'			
	RED-77'			
J				
K				
L	GREEN-45'			
	YELLOW-65'			
	ORANGE-85'			
	RED-105'			
M				
N	GREEN-22'			
	YELLOW-45'			
	ORANGE-68'			
	RED-90'			
P	10'			
	40'			
	80'			
P-1	120'			

PROBE #		H_2S	TOC
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'	ND	ND
V	10'		
	40'	ND	ND
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	95ppm	43%

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3036 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8987

000942

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1915
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 11/5/98

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: ATF

TIME: 1140 - 1620

INSTRUMENT: BACHARACH HPK

PARAMETER: % vol

REMARKS: Calibrated to 2.5% CH_4 calibrant
* thermal filament response reading high.
** ~10 minute draw to stable reading
X = tubing inaccessible
TR = TRACE

PROBE #			PROBE #						
1	ND		A-1	ND		R	10'	ND	
2 A	ND		B	ND			40'	ND	
3 A	ND		C GREEN-21'	ND			80'	ND	
4 A	0.6		C YELLOW-41'	ND			120'	ND	
5 A	TR		C ORANGE-61'	X		S	10'	ND	
6 A	ND		C RED - 81'	X			40'	ND	
7 A	ND		D	TR			80'	ND	
8 A	ND		E	ND			120'	ND	
9	ND		F	ND		T	10'	ND	
10	ND		G	ND			40'	0.2	
11	ND		J-1	ND			73'	ND	
12	ND		K-1	ND		T-1	72'	ND	
13	ND		L GREEN-45'	ND		U	10'	ND	
14	ND		L YELLOW-65'	ND			37'	20*	
15	ND		L ORANGE-85'	ND			68'	37**	
16	ND		L RED - 105'	0.8		V	10'	ND	
17	ND		N GREEN-22'	ND			40'	TR	
18	LOST		N YELLOW-45'	ND			73'	ND	
19	ND		N ORANGE-68'	ND		W	10'	ND	
20	ND		N RED - 90'	X			40'	ND	
21 A	ND		P 10'	ND			80'	ND	
22	ND		P 40'	ND			120'	ND	
23	LOST		P 80'	ND			158'	ND	
24	ND		P-1 120'	ND					
25	ND		Q ? 10' S	0.9		TSI			
26	ND		Q ? 40' N	ND					
			Q ? 75' W	ND					
			Q-1 120'	ND					
			Q-1 158'	ND					

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIA

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5125-6

DATE 11/13/98

INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	(still)	dry
clear	(overcast)	33°-55°	86°-100°	breeze	(moderate)
fog	rain	(56°-70°)	>100° F	wind	humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Cool temperatures with a few high clouds. Instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 11/12/98. Contractor followed Path 'A' and began monitor at 7:00 AM and finished monitor at 8:40 AM with a result of ND. Last recorded Rainfall was over 72 hours ago. An electronic wind speed indicator reported ND. for wind velocity.

☐ REINSPECTION REQUIRED

Robert mcallist
INSPECTOR

PRINCIPAL

JS-0075 4/15/94

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 12/1/98

INSPECTION REPORT

CLIMATE: bright, clear, fog, (cloudy), overcast, rain | <32° F, 33°-[illegible], [illegible]-70°, 71°-85°, 86°-100°, >100° F | (still), breeze, wind | dry, (moderate), humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): Robert McAllister

REMARKS: Last recorded rainfall was 72 hours ago. Electronic wind speed indicator detected ND. All air samples were collected in 10-liter Tedlar Bags and placed in a Black Trash bag for protection from Sunlight. The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 11/12/98. The TOC instrument used was a Natural Gas Indicator model npl-204, last calibration by J.G. Tucker and son on 8/7/98. The ISS were collected in a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min. The H_2S level

☐ REINSPECTION REQUIRED

Robert mcallist
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 12/1/98

REMARKS CONTINUED:

was determined by Drager tubes and a Drager Pump.

The ISS #42 was collected at 8:00 Am and tested for H_2S (ND) and OVA (ND). The ISS #43 was collected at 8:40 am and tested for H_2S (ND) and OVA (ND). PPS U 68' was collected at 9:30 am and tested for H_2S (ND) and TOC (6%). PPS U 37' was collected at 9:50 AM and tested for H_2S (ND) and TOC (ND) The TSI was collected at 1:30 pm and tested for H_2S (90ppm) and TOC (45%).

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6
DATE 12/14/98

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Last recorded rainfall was over 72 hours ago. Contractor used a FOXBORO 128 last calibrated by Robert McAllister on 11/12/98. Contractor followed Path "B". Monitor began at 7:15 and was completed by 9:30 am with a result of ND. Last recorded rainfall was over 72 hours ago. An electronic wind speed indicator detected a .2 to 3.1 mph. South breeze.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

IS-0075 4/15/94

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 12/21/98

INSPECTION REPORT

CLIMATE: bright, clouds, clear, overcast, fog, rain | <32° F, 71°-85°, 32°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Last recorded rainfall was over 72 hours ago. An electronic wind speed indicator detected ND, for wind velocity. Very cold temperatures with overcast clouds. All air samples were collected in 10-liter tedlar bags and placed into a black trash bag for protection from sunlight. H_2S levels were determined with a Drager pump and Drager tubes. OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 11/12/98. The TOC instrument used was a Natural Gas Indicator model

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

000948

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 12/21/98

REMARKS CONTINUED:

npl-204, last calibrated by J.G. Tucker and Son on 8/7/98. The ISS were collected in a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min.

ISS #44 was collected at 9:15 Am and tested for H_2S (ND) and OVA (ND). ISS #45 was collected at 9:40 am and tested for H_2S (ND) and OVA (ND). PPS E was collected at 10:30 Am and tested for TOC (ND) and H_2S (ND). The TSI was collected at 1:30 pm and tested for TOC (48%) and H_2S (90 ppm).

Robert mallit
INSPECTOR

PRINCIPAL

SHEET__OF__

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 12-1-88

Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		

REMARKS:
ISS #42 - 8:00 AM
ISS #43 - 8:40 AM
PPS-U 68' - 9:30 AM
PPS U-37' - 9:50 AM
TSI - 1:30 PM

Cloudy - Cool temp -
No WIND -
Last RAIN Recorded 72 hours AGO

PROBE #			PROBE #					PROBE #		TOC	H_2S
1								Q	10'		
2			B						40'		
3			C	GREEN-21'					75'		
4				YELLOW-41'				Q-1	120'		
5				ORANGE-61'					158'		
6				RED-81'				R	10'		
7			D						40'		
8			E						80'		
9			F						120'		
10			G					S	10'		
11			H						40'		
12			I	GREEN-17'					80'		
13				YELLOW-37'					120'		
14				ORANGE-57'				T	10'		
15				RED-77'					40'		
16			J						73'		
17			K					T-1	72'		
18			L	GREEN-45'				U	10'		
19				YELLOW-65'					37'	ND	ND
20				ORANGE-85'					68'	6%	ND
21				RED-105'				V	10'		
22			M						40'		
23			N	GREEN-22'					73'		
24				YELLOW-45'				W	10'		
25				ORANGE-68'					40'		
26				RED-90'					80'		
	H_2S	OVA	P	10'					120'		
ISS 42	ND	ND		40'					158'		
ISS 43	ND	ND		80'					TSI	45%	90ppm.
			P-1	120'							

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS
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CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 12-9-98

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: ATF

TIME: 1100-1430

INSTRUMENT: BACHARACH HPK

PARAMETER: % Vol. Combustible gas

REMARKS: Calibrated to 2.5% CH_4 calibrant.
X = tubing inaccessible
TR = TRACE
* = probe labels lost: depths uncertain

PROBE #		% Vol.	
1		ND	
2 A		ND	
3 A		ND	
4 A		ND	
5 A		0.3	
6 A		ND	
7 A		ND	
8 A		ND	
9		ND	
10		ND	
11		ND	
12		ND	
13		ND	
14		ND	
15		ND	
16		ND	
17		ND	
18		LOST	
19		ND	
20		ND	
21 A		ND	
22		ND	
23		LOST	
24		ND	
25		ND	
26		ND	

PROBE #		% Vol.	
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	
	ORANGE-61'	X	
	RED - 81'	X	
D		0.1	
E		13	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	2.2	
	YELLOW-65'	ND	
	ORANGE-85'	1.2	
	RED - 105'	2.3	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	TR	
	80'	ND	
P-1	120'	W	clogged
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

R	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
S	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
T	10'	ND	
	40'	ND	
	73'	ND	
T-1	72'	ND	
U	10'	ND	
	37'	ND	
	68'	ND	
V	10'	ND	
	40'	ND	
	73'	ND	
W *	10'	ND	Probe A
	40'	2	B
	80'	2.5	C
	120'	2.8	D
	158'	ND	E
TSI			

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6

DATE 12 / 1 / 98

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain; <32° F, 33°-70°, 71°-85°, 86°-100°, >100° F; breeze, wind; dry, humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): Robert McAllister

REMARKS: Last recorded rainfall was 72 hours ago. Electronic wind speed indicator detected ND. All air samples were collected in 10-liter Tedlar Bags and placed in a Black Trash bag for protection from Sunlight. The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 11/12/98. The TOC instrument used was a Natural Gas Indicator model npl-204, last calibration by J.G. Tucker and son on 8/7/98. The ISS were collected in a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min. The H_2S level

☐ REINSPECTION REQUIRED

Robert mcallist
INSPECTOR

PRINCIPAL

SHEET OF

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 12/1/98

REMARKS CONTINUED:

was determined by Drager tubes and a Drager Pump.

The ISS #42 was collected at 8:00 Am and tested for H_2S (ND) and OVA (ND). The ISS #43 was collected at 8:40 am and tested for H_2S (ND) and OVA (ND). PPS U 68' was collected at 9:30 am and tested for H_2S (ND) and TOC (6%). PPS U 37' was collected at 9:50 AM and tested for H_2S (ND) and TOC (ND) The TSI was collected at 1:30 pm and tested for H_2S (90ppm) and TOC (45%).

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

000953

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 12-9-98

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: ATF

TIME: 1100-1430

INSTRUMENT: BACHARACH HPK

PARAMETER: % Vol. Combustible gas

REMARKS: Calibrated to 2.5% CH_4 calibrant.
X = tubing inaccessible
TR = TRACE
* = probe labels lost; depths uncertain

PROBE #	% Vol.	
1	ND	
2 A	ND	
3 A	ND	
4 A	ND	
5 A	0.3	
6 A	ND	
7 A	ND	
8 A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	LOST	
19	ND	
20	ND	
21 A	ND	
22	ND	
23	LOST	
24	ND	
25	ND	
26	ND	

PROBE #		% Vol.	
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	
	ORANGE-61'	X	
	RED - 81'	X	
D		0.1	
E		13	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	2.2	
	YELLOW-65'	ND	
	ORANGE-85'	1.2	
	RED - 105'	2.3	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	TR	
	80'	ND	
P-1	120'	W	clogged
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

R	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
S	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
T	10'	ND	
	40'	ND	
	73'	ND	
T-1	72'	ND	
U	10'	ND	
	37'	ND	
	68'	ND	
V	10'	ND	
	40'	ND	
	73'	ND	
W *	10'	ND	Probe A
	40'	2	B
	80'	2.5	C
	120'	2.8	D
	158'	ND	E
TSI			

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Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 11-25-98

Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		

REMARKS:- High Clouds - South wind 2.3 - 4.8 mph.
- Temp. high 70's

PROBE #		
1	ND	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		Bent
19		
20	No	Sign
21		
22		
23	NOT	FOUND
24		
25		
26		

PROBE #			
		ND	
	B		
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
	D		
	E		
	F		
	G		
	H		
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
	J		
	K		
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'	.3%	
	RED-105'		
	M		
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'	ND NOT	MARKED
	40'	ND	
	80'	ND NOT	MARKED
P-1	120'		

PROBE #			
Q	10'		NOT Marked
	40'		NOT Marked
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'	ND	
V	10'		
	40'		
	73'	.8%	
W	10'		
	40'		
	80'		
	120'		
	158'		

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 12-9-98

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: ATF

TIME: 1100-1430

INSTRUMENT: BACHARACH HPK

PARAMETER: % Vol, Combustible gas

REMARKS: Calibrated to 2.5% CH_4 calibrant.
X = tubing inaccessible
TR = TRACE
* = probe labels lost; depths uncertain

PROBE #	% Vol.	
1	ND	
2 A	ND	
3 A	ND	
4 A	ND	
5 A	0.3	
6 A	ND	
7 A	ND	
8 A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	LOST	
19	ND	
20	ND	
21 A	ND	
22	ND	
23	LOST	
24	ND	
25	ND	
26	ND	

PROBE #		% Vol.	
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	
	ORANGE-61'	X	
	RED - 81'	X	
D		0.1	
E		13	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	2.2	
	YELLOW-65'	ND	
	ORANGE-85'	1.2	
	RED - 105'	2.3	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	TR	
	80'	ND	
P-1	120'	W	clogged
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

R	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
S	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
T	10'	ND	
	40'	ND	
	73'	ND	
T-1	72'	ND	
U	10'	ND	
	37'	ND	
	68'	ND	
V	10'	ND	
	40'	ND	
	73'	ND	
W *	10'	ND	Probe A
	40'	2	B
	80'	2.5	C
	120'	2.8	D
	158'	ND	E
TSI			

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Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 12-9-98

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: ATF

TIME: 1100-1430

INSTRUMENT: BACHARACH HPK

PARAMETER: % Vol. Combustible gas

REMARKS: Calibrated to 2.5% CH_4 calibrant.
X = tubing inaccessible
TR = TRACE
* = probe labels lost; depths uncertain

PROBE #	% Vol.	
1	ND	
2 A	ND	
3 A	ND	
4 A	ND	
5 A	0.3	
6 A	ND	
7 A	ND	
8 A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	LOST	
19	ND	
20	ND	
21 A	ND	
22	ND	
23	LOST	
24	ND	
25	ND	
26	ND	

PROBE #		% Vol.	
A-1		ND	
B		ND	
C	GREEN-21'	ND	
C	YELLOW-41'	ND	
C	ORANGE-81'	X	
C	RED - 81'	X	
D		0.1	
E		13	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	2.2	
L	YELLOW-65'	ND	
L	ORANGE-85'	1.2	
L	RED - 105'	2.3	
N	GREEN-22'	ND	
N	YELLOW-45'	ND	
N	ORANGE-68'	ND	
N	RED - 90'	ND	
P	10'	ND	
P	40'	TR	
P	80'	ND	
P-1	120'	W	clogged
Q	10'	ND	
Q	40'	ND	
Q	75'	ND	
Q-1	120'	ND	
Q-1	158'	ND	

R	10'	ND	
R	40'	ND	
R	80'	ND	
R	120'	ND	
S	10'	ND	
S	40'	ND	
S	80'	ND	
S	120'	ND	
T	10'	ND	
T	40'	ND	
T	73'	ND	
T-1	72'	ND	
U	10'	ND	
U	37'	ND	
U	68'	ND	
V	10'	ND	
V	40'	ND	
V	73'	ND	
W *	10'	ND	Probe A
W *	40'	2	B
W *	80'	2.5	C
W *	120'	2.8	D
W *	158'	ND	E
TSI			

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Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 12-9-98

JOB No.: J481

GAS CONCENTRATIONS

INITIALS: ATF

TIME: 1100-1430

INSTRUMENT: BACHARACH HPK

PARAMETER: % Vol. Combustible gas

REMARKS: Calibrated to 2.5% CH_4 calibrant.
X = tubing inaccessible
TR. = TRACE
* = probe labels lost; depths uncertain

PROBE #		% Vol.	
1		ND	
2 A		ND	
3 A		ND	
4 A		ND	
5 A		0.3	
6 A		ND	
7 A		ND	
8 A		ND	
9		ND	
10		ND	
11		ND	
12		ND	
13		ND	
14		ND	
15		ND	
16		ND	
17		ND	
18		LOST	
19		ND	
20		ND	
21 A		ND	
22		ND	
23		LOST	
24		ND	
25		ND	
26		ND	

PROBE #		% Vol.	
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	
	ORANGE-61'	X	
	RED - 81'	X	
D		0.1	
E		13	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	2.2	
	YELLOW-65'	ND	
	ORANGE-85'	1.2	
	RED - 105'	2.3	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	TR	
	80'	ND	
P-1	120'	W	clogged
Q	10'	ND	
	40'	ND	
	75'	ND	
Q-1	120'	ND	
	158'	ND	

R	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
S	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
T	10'	ND	
	40'	ND	
	73'	ND	
T-1	72'	ND	
U	10'	ND	
	37'	ND	
	68'	ND	
V	10'	ND	
	40'	ND	
	73'	ND	
W *	10'	ND	Probe A
	40'	2	B
	80'	2.5	C
	120'	2.8	D
	158'	ND	E
TSI			

SEPICH ASSOCIATES, Inc.
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Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 211-4170

PENROSE LANDFILL

Date 12-21-98

Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	OVA	H_2S
ISS #44	ND	ND
ISS #45	ND	ND

REMARKS: - COLD - CLOUDY - NO WIND -
ISS #44 - 9:15 AM -
ISS #45 - 9:40 AM -
FFS E - 10:30 AM -
TSI - 1:30 PM -

PROBE #		TOC	H_2S
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E		ND	ND
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #		TOC	H_2S
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	48%	90ppm

SEPICH ASSOCIATES, Inc.
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FAX: (818) 707-3012 (805) 373-8987

Form prepared by:

000900

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 12-22-98

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS COLD - Clear Skies -
TIME	2.0 mph South WIND -
INSTRUMENT	began 8:45 completed 11:30 AM.
PARAMETER	

PROBE #		PROBE #					
1	ND	A-1	ND		R	10'	
2 A		B				40'	
3 A		C GREEN-21'				80'	
4 A		C YELLOW-41'				120'	
5 A		C ORANGE-61'			S	10'	
6 A		C RED - 81'				40'	
7 A		D				80'	
8 A		E				120'	
9		F			T	10'	
10		G				40'	
11		J-1				73'	
12		K-1			T-1	72'	
13		L GREEN-45'			U	10'	
14		L YELLOW-65'				37'	
15		L ORANGE-85'				68'	
16		L RED - 105'			V	10'	
17		N GREEN-22'				40'	
18		N YELLOW-45'				73'	
19		N ORANGE-68'			W	10'	
20		N RED - 90'				40'	ND
21 A		P 10'				80'	.6%
22		P 40'				120'	ND
23		P 80'				158'	.8%
24		P-1 120'					
25		Q 10'			TSI		
26		Q 40'					
		Q 75'					
		Q-1 120'					
		Q-1 158'					

SEPICH ASSOCIATES, Inc.
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EXHIBIT D

Laboratory Analytical Results - Fourth Quarter, 1998

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

November 09, 1998

Robert McAllister
L.A. By Products/Sepich Associates, Inc.
1810 East 25th Street
Los Angeles, CA 90058

Subject: **Calscience Work Order Number: 98-11-0040**
Client Reference: Penrose Landfill/J152-6

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/03/98 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

William H. Christensen
Deliverables Manager

000962

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	11/02/98
1810 East 25th Street	Date Received:	11/02/98
Los Angeles, CA 90058	Date Analyzed:	11/05-06/98
	Work Order No.:	98-11-0040
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #42 **		
Methane	4	1
TGNMO	14	1
Sample Number: ISS #43 **		
Methane	5	1
TGNMO	13	1
Sample Number: PPS U68'		
Methane	2.1*	1
TGNMO	74	1
Sample Number: PPS V40' **		
Methane	27	1
TGNMO	28	1

* Result reported in percent(%) by volume.

** 72 hour sample holding time exceeded for this analysis.

000983

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.		Date Sampled:	11/02/98
1810 East 25th Street		Date Received:	11/02/98
Los Angeles, CA 90058		Date Analyzed:	11/05-06/98
		Work Order No.:	98-11-0040
Attn:	Robert McAllister	Method:	SCAQMD 25.1
RE:	Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reporting Limit
Sample Number: TSI		
Oxygen plus Argon	1.4*	0.1
Nitrogen	22.5*	0.1
Methane	39.8*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	36.3*	0.1
TGNMO	688	1
Sample Number: Method Blank #1		
Methane	ND	1
TGNMO	ND	1
Sample Number: Method Blank #2		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1
Sample Number: Method Blank #3		
Methane	ND	1
TGNMO	ND	1

* Result reported in percent(%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	11/02/98
1810 East 25th Street	Date Received:	11/02/98
Los Angeles, CA 90058	Date Analyzed:	11/05-06/98
	Work Order No.:	98-11-0040
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

QA/QC

Sample Number: PPS U68'(Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen	13.0*	12.7*	2	0 - 25
Nitrogen	77.5*	77.5*	0	0 - 25
Methane	2.1*	2.1*	0	0 - 25
Carbon Monoxide	ND*	ND*	NA	0 - 25
Carbon Dioxide	7.5*	7.7*	3	0 - 25
TGNMO	74	59	23	0 - 25

Sample Number: PPS V40'(Duplicate)

Methane	27	28	4	0 - 25
TGNMO	28	36	25	0 - 25

* Result reported in percent(%) by volume.

ND denotes not detected at indicated reportable limit.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-11-0040		
QC Batch ID:	981105A	Date Collected:	11/02/98
Matrix:	Air	Date Received:	11/03/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	11/05/98

Client Sample Number: **ISS #42**
Lab Sample Number: 98-11-0040-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.2	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	9.7	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	1.7	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-11-0040		
QC Batch ID:	981105A	Date Collected:	11/02/98
Matrix:	Air	Date Received:	11/03/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	11/05/98

Client Sample Number: **ISS #43**
Lab Sample Number: 98-11-0040-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	2.2	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	0.6	0.5		ppb (v/v)
Benzene	1.0	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	10.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.7	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	1.6	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-11-0040		
QC Batch ID:	981104A	Date Collected:	11/02/98
Matrix:	Air	Date Received:	11/03/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	11/05/98

Client Sample Number: **PPS U68'**
Lab Sample Number: 98-11-0040-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	2.0		ppb (v/v)
Acetonitrile	ND	4.0		ppb (v/v)
1,1-Dichloroethene	ND	2.0		ppb (v/v)
Methylene Chloride	ND	8.0		ppb (v/v)
1,1-Dichloroethane	ND	2.0		ppb (v/v)
Chloroform	ND	2.0		ppb (v/v)
1,2-Dichloroethane	ND	2.0		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0		ppb (v/v)
Benzene	ND	2.0		ppb (v/v)
Carbon Tetrachloride	ND	2.0		ppb (v/v)
Toluene	6.2	2.0		ppb (v/v)
Trichloroethene	ND	2.0		ppb (v/v)
Tetrachloroethene	ND	2.0		ppb (v/v)
Chlorobenzene	ND	2.0		ppb (v/v)
Xylenes (total)	ND	6.0		ppb (v/v)
Benzyl Chloride	ND	2.0		ppb (v/v)
1,3-Dichlorobenzene	ND	2.0		ppb (v/v)
1,4-Dichlorobenzene	ND	2.0		ppb (v/v)
1,2-Dichlorobenzene	ND	2.0		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-11-0040		
QC Batch ID:	981105A	Date Collected:	11/02/98
Matrix:	Air	Date Received:	11/03/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	11/05/98

Client Sample Number: **PPS V40'**
Lab Sample Number: 98-11-0040-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	4.0		ppb (v/v)
Acetonitrile	ND	8.0		ppb (v/v)
1,1-Dichloroethene	ND	4.0		ppb (v/v)
Methylene Chloride	ND	16		ppb (v/v)
1,1-Dichloroethane	ND	4.0		ppb (v/v)
Chloroform	10.9	4.0		ppb (v/v)
1,2-Dichloroethane	ND	4.0		ppb (v/v)
1,1,1-Trichloroethane	ND	4.0		ppb (v/v)
Benzene	ND	4.0		ppb (v/v)
Carbon Tetrachloride	ND	4.0		ppb (v/v)
Toluene	5.1	4.0		ppb (v/v)
Trichloroethene	ND	4.0		ppb (v/v)
Tetrachloroethene	9.6	4.0		ppb (v/v)
Chlorobenzene	ND	4.0		ppb (v/v)
Xylenes (total)	ND	12		ppb (v/v)
Benzyl Chloride	ND	4.0		ppb (v/v)
1,3-Dichlorobenzene	ND	4.0		ppb (v/v)
1,4-Dichlorobenzene	ND	4.0		ppb (v/v)
1,2-Dichlorobenzene	ND	4.0		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-11-0040		
QC Batch ID:	981104A	Date Collected:	11/02/98
Matrix:	Air	Date Received:	11/03/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	11/05/98

Client Sample Number: **TSI**
Lab Sample Number: 98-11-0040-5

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	210	120		ppb (v/v)
Acetonitrile	ND	240		ppb (v/v)
1,1-Dichloroethene	ND	120		ppb (v/v)
Methylene Chloride	1940	480		ppb (v/v)
1,1-Dichloroethane	ND	120		ppb (v/v)
Chloroform	ND	120		ppb (v/v)
1,2-Dichloroethane	ND	120		ppb (v/v)
1,1,1-Trichloroethane	ND	120		ppb (v/v)
Benzene	1160	120		ppb (v/v)
Carbon Tetrachloride	ND	120		ppb (v/v)
Toluene	7500	120		ppb (v/v)
Trichloroethene	ND	120		ppb (v/v)
Tetrachloroethene	ND	120		ppb (v/v)
Chlorobenzene	400	120		ppb (v/v)
Xylenes (total)	8420	360		ppb (v/v)
Benzyl Chloride	ND	120		ppb (v/v)
1,3-Dichlorobenzene	ND	120		ppb (v/v)
1,4-Dichlorobenzene	ND	120		ppb (v/v)
1,2-Dichlorobenzene	ND	120		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-11-0040		
QC Batch ID:	981104A	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	11/04/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-567

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-11-0040		
QC Batch ID:	981105A	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	11/05/98

Client Sample Number: **Method Blank 2**
Lab Sample Number: 095-01-021-568

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate
EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	981104A	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	11/04/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	96	110	60-140	13	0-30	
1,2-Dichloroethane	109	113	60-140	3	0-30	
Benzene	87	94	60-140	7	0-30	
Carbon Tetrachloride	109	109	60-140	0	0-30	
Trichloroethene	97	99	60-140	2	0-30	
Tetrachloroethene	93	102	60-140	9	0-30	
1,4-Dichlorobenzene	115	122	60-140	5	0-30	
1,2-Dichlorobenzene	116	125	60-140	7	0-30	

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	981105A	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	11/05/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	101	114	60-140	12	0-30	
1,2-Dichloroethane	116	115	60-140	0	0-30	
Benzene	83	86	60-140	3	0-30	
Carbon Tetrachloride	114	110	60-140	3	0-30	
Trichloroethene	100	100	60-140	0	0-30	
Tetrachloroethene	101	103	60-140	1	0-30	
1,4-Dichlorobenzene	132	124	60-140	6	0-30	
1,2-Dichlorobenzene	131	126	60-140	3	0-30	

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0040

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	11/2/98

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		FIXED GAS			TOC	REMARKS
J152 6	11/2 98	8:05 Am	C	1	ISS #42	✓	✓	✓						
J152 6	11/2 98	8:40 Am	C	1	ISS #43	✓	✓	✓						
J152 6	11/2 98	9:15 Am	G	1	PPS 468'	✓	✓							
J152 6	11/2 98	9:50 Am	G	1	PPS V 40'	✓	✓							
J152 6	11/2 98	11:30 Am	G	1	TSI	✓	✓			✓				

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LAB PRO	110398	1135
RECEIVED BY:	[illegible]	CalScience	110398	1135
RELINQUISHED BY:	[illegible]	[illegible]	110398	430
RECEIVED BY:	[illegible]	CALSCIENCE	11/3/98	1630
RELINQUISHED BY:				
RECEIVED BY:				

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Calscience
Environmental
Laboratories, Inc.

December 18, 1998
PM25198

Robert McAllister
L.A. By Products/Sepich Associates, Inc.
1810 East 25th Street
Los Angeles, CA 90058

Subject: **Calscience Work Order Number:** **98-12-0102**
Client Reference: **Penrose Landfill/J152-6**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/03/98 and analyzed in accordance with the attached chain-of-custody. A subcontract laboratory performed the SCAQMD 25.1 analysis. The subcontract laboratory report is attached.

Due to a laboratory error, fixed gas analysis on the TSI sample was not performed within the 72 hour holding time recommended for tedlar bag samples.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

William H. Christensen
Deliverables Manager

JRM

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	12/01/98 12/03/98 12/09/98*
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 1 of 2	98-12-0102 ASTM D-1946

All concentrations are reported in percent (%) by volume.

Analyte	Concentration	Reporting Limit
Sample Number: TSI		
Oxygen (O_2)	7.6	4.0
Nitrogen (N_2)	27.1	4.0
Methane (CH_4)	34.6	4.0
Carbon Monoxide (CO)	ND	4.0
Carbon Dioxide (CO_2)	30.7	4.0
Sample Number: Method Blank		
Oxygen (O_2)	ND	0.1
Nitrogen (N_2)	ND	0.1
Methane (CH_4)	ND	0.1
Carbon Monoxide (CO)	ND	0.1
Carbon Dioxide (CO_2)	ND	0.1

*Sample analysis performed past the 72 hour holding time recommended for tedlar bag samples.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	12/01/98
1810 East 25th Street	Date Received:	12/03/98
Los Angeles, CA 90058	Date Analyzed:	12/09/98*
	Work Order No.:	98-12-0102
Attn: Robert McAllister	Method:	ASTM D-1946
RE: Penrose Landfill/J152-6	Page 2 of 2	

All concentrations are reported in percent (%) by volume.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen (O_2)	7.6	7.7	1	0 - 30
Nitrogen (N_2)	27.1	27.2	0	0 - 30
Methane (CH_4)	34.6	34.4	1	0 - 30
Carbon Monoxide (CO)	ND	ND	NA	0 - 30
Carbon Dioxide (CO_2)	30.7	30.7	0	0 - 30

*Sample analysis performed past the 72 hour holding time recommended for tedlar bag samples.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-12-0102		
QC Batch ID:	K981203A	Date Collected:	12/01/98
Matrix:	Air	Date Received:	12/03/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	12/03/98

Client Sample Number: **ISS #42**
Lab Sample Number: 98-12-0102-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.0	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	6.5	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	3.5	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-12-0102		
QC Batch ID:	K981203A	Date Collected:	12/01/98
Matrix:	Air	Date Received:	12/03/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	12/03/98

Client Sample Number: **ISS #43**
Lab Sample Number: 98-12-0102-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	2.2	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	10.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.6	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	6.3	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-12-0102		
QC Batch ID:	K981204A	Date Collected:	12/01/98
Matrix:	Air	Date Received:	12/03/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	12/04/98

Client Sample Number: **PPS U 68**
Lab Sample Number: 98-12-0102-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	36	10		ppb (v/v)
Acetonitrile	ND	20		ppb (v/v)
1,1-Dichloroethene	ND	10		ppb (v/v)
Methylene Chloride	45	40		ppb (v/v)
1,1-Dichloroethane	ND	10		ppb (v/v)
Chloroform	ND	10		ppb (v/v)
1,2-Dichloroethane	ND	10		ppb (v/v)
1,1,1-Trichloroethane	ND	10		ppb (v/v)
Benzene	44	10		ppb (v/v)
Carbon Tetrachloride	ND	10		ppb (v/v)
Toluene	76	10		ppb (v/v)
Trichloroethene	ND	10		ppb (v/v)
Tetrachloroethene	12	10		ppb (v/v)
Chlorobenzene	54	10		ppb (v/v)
Xylenes (total)	146	30		ppb (v/v)
Benzyl Chloride	ND	10		ppb (v/v)
1,3-Dichlorobenzene	ND	10		ppb (v/v)
1,4-Dichlorobenzene	29	10		ppb (v/v)
1,2-Dichlorobenzene	18	10		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-12-0102		
QC Batch ID:	K981204A	Date Collected:	12/01/98
Matrix:	Air	Date Received:	12/03/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	12/04/98

Client Sample Number: **PPS U 37**
Lab Sample Number: 98-12-0102-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	2.0		ppb (v/v)
Acetonitrile	ND	4.0		ppb (v/v)
1,1-Dichloroethene	ND	2.0		ppb (v/v)
Methylene Chloride	ND	8.0		ppb (v/v)
1,1-Dichloroethane	ND	2.0		ppb (v/v)
Chloroform	ND	2.0		ppb (v/v)
1,2-Dichloroethane	ND	2.0		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0		ppb (v/v)
Benzene	2.0	2.0		ppb (v/v)
Carbon Tetrachloride	ND	2.0		ppb (v/v)
Toluene	9.6	2.0		ppb (v/v)
Trichloroethene	ND	2.0		ppb (v/v)
Tetrachloroethene	6.6	2.0		ppb (v/v)
Chlorobenzene	9.2	2.0		ppb (v/v)
Xylenes (total)	ND	6.0		ppb (v/v)
Benzyl Chloride	ND	2.0		ppb (v/v)
1,3-Dichlorobenzene	ND	2.0		ppb (v/v)
1,4-Dichlorobenzene	24.4	2.0		ppb (v/v)
1,2-Dichlorobenzene	ND	2.0		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-12-0102		
QC Batch ID:	K981204A	Date Collected:	12/01/98
Matrix:	Air	Date Received:	12/03/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	12/04/98

Client Sample Number: **TSI**
Lab Sample Number: 98-12-0102-5

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	270	100		ppb (v/v)
Acetonitrile	ND	200		ppb (v/v)
1,1-Dichloroethene	ND	100		ppb (v/v)
Methylene Chloride	490	400		ppb (v/v)
1,1-Dichloroethane	ND	100		ppb (v/v)
Chloroform	ND	100		ppb (v/v)
1,2-Dichloroethane	ND	100		ppb (v/v)
1,1,1-Trichloroethane	ND	100		ppb (v/v)
Benzene	1020	100		ppb (v/v)
Carbon Tetrachloride	ND	100		ppb (v/v)
Toluene	5380	100		ppb (v/v)
Trichloroethene	ND	100		ppb (v/v)
Tetrachloroethene	120	100		ppb (v/v)
Chlorobenzene	400	100		ppb (v/v)
Xylenes (total)	6320	300		ppb (v/v)
Benzyl Chloride	ND	100		ppb (v/v)
1,3-Dichlorobenzene	ND	100		ppb (v/v)
1,4-Dichlorobenzene	270	100		ppb (v/v)
1,2-Dichlorobenzene	ND	100		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-12-0102		
QC Batch ID:	K981203A	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	12/03/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-586

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-12-0102		
QC Batch ID:	K981204A	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	12/04/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-587

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	K981203A	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	12/03/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	83	82	60-140	1	0-30	
1,2-Dichloroethane	105	103	60-140	1	0-30	
Benzene	85	85	60-140	0	0-30	
Carbon Tetrachloride	116	114	60-140	1	0-30	
Trichloroethene	99	97	60-140	2	0-30	
Tetrachloroethene	105	102	60-140	2	0-30	
1,4-Dichlorobenzene	122	122	60-140	0	0-30	
1,2-Dichlorobenzene	126	123	60-140	2	0-30	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	K981204A	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	12/04/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	83	83	60-140	0	0-30	
1,2-Dichloroethane	104	103	60-140	0	0-30	
Benzene	84	84	60-140	0	0-30	
Carbon Tetrachloride	113	114	60-140	0	0-30	
Trichloroethene	97	99	60-140	2	0-30	
Tetrachloroethene	97	97	60-140	0	0-30	
1,4-Dichlorobenzene	120	120	60-140	0	0-30	
1,2-Dichlorobenzene	120	124	60-140	3	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	12-1-98

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		Fixed GAS			TOC	REMARKS
J152-6	12-1 98	8:00 AM	C	1	ISS # 42	✓	✓	✓						
J152-6	12-1 98	8:40 AM	C	1	ISS # 43	✓	✓	✓						
J152-6	12-1 98	9:30 AM	G	1	PPS U 68'	✓	✓							
J152-6	12-1 98	9:50 AM	G	1	PPS U 37'	✓	✓							
J152-6	12-1 98	1:30 AM	G	1	TS I	✓	✓			✓				

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CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO		
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:	[illegible]	OMSCHENCER	12-03-98	1055
RECEIVED BY:	[illegible]	CEI	12/3/98	1055

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Advanced Technology Laboratories

December 23, 1998

ELAP No.: 1838

Cal Science Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1432

ATTN: Ms. Jody McInerney
SUBJECT: AMENDED REPORT

Client's Project: 98-12-0102
Lab No.: 31198-001/005

Gentlemen:

This report contains an amended result for samples 31198-003/005. An amendment was made on Methane results for sample 31198-003/004 and 31198-005 was amended for TNMO and Methane results.

Please disregard all previous documentation that corresponds to the pages(s) enclosed.

Sincerely,

Cheryl De Los Reyes
Technical Operations Manager
CDR/lb

Enclosures

This cover letter is an integral part of this analytical report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited.

Mailing Address: P.O. Box 92797 Long Beach, CA 90809-2797
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Client: Calscience Environmental Laboratories, Inc.
Attn: Jody McInerney

Client's Project: 98-12-0102
Date Received: 12/3/98
Matrix: Air
Amended: 12/17/98

Total Non-Methane Organics (SCAQMD 25.1)

Lab No.:		31198-1		31198-2		31198-3		31198-4		31198-5	
Client Sample I.D.:		ISS#42		ISS#43		PPS U 68'		PPS U 37'		TSI	
Date Sampled:		12/1/98		12/1/98		12/1/98		12/1/98		12/1/98	
Date Analyzed:		12/4/98		12/4/98		12/4/98		12/4/98		12/4/98	
Analyst Initials:		VM		VM		VM		VM		VM	
Dilution Factor:		1		1		1		1		1	
ANALYTE	MDL	DLR	Result	DLR	Result	DLR	Result	DLR	Result	DLR	Result
TNMO (ppmc)	10	10	ND	10	ND	10	ND	10	ND	10	2,260
Methane (%v/v)	0.001	0.001	ND	0.001	ND	0.001	4.2	0.001	0.074	0.001	41
Carbon dioxide (% v/v)	0.010	0.010	N/A	0.010	N/A	0.010	N/A	0.010	N/A	0.010	36
Carbon monoxide (% v/v)	0.001	0.001	N/A	0.001	N/A	0.001	N/A	0.001	N/A	0.001	ND

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor
N/A = Not applicable.

Reviewed/Approved By: _____ Date 12/17/98
Val Mallari
Air Toxics Laboratory Manager

Reviewed/Approved By: _____ Date 12/18/98
Beverly Tanaka
QAQC Manager

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill CA 90807 Tel: 562 989 4045 Fax: 562 989 4040

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12/3/98

Page 1 of 1

LABORATORY CLIENT:

ADDRESS:

CITY STATE ZIP

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: 98-12-0102

PROJECT CONTACT: Jody McInerney

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___.

SPECIAL INSTRUCTIONS
Normal TAT ; Fax results

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) (O)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EDB / DBCP (504.1 or 8011)	CAC, T22 METALS (6010B)	ICP/MS METALS (6020)	PNAs (8310)	VOCs (TO-14)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1 or D1946)				
1	ISS#42		12/1/98		A	1														X					
2	ISS#43																			X					
3	PPS U 68'																			X					
4	PPS U 37'																			X					
5	TSI																			X					

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	12/3/98	2:30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:

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Calscience Environmental Laboratories, Inc.

December 18, 1998
PM00399

Robert McAllister
L.A. By Products/Sepich Associates, Inc.
444 Irving Drive
Burbank, CA 91504

Subject: **Calscience Work Order Number:** **98-12-0763**
Client Reference: **Penrose Landfill/J152-6**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/22/98 and analyzed in accordance with the attached chain-of-custody. A subcontract laboratory performed the SCAQMD 25.1 analysis. The subcontract laboratory report is attached.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

William H. Christensen
Deliverables Manager

JRM

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	12/21/98 12/22/98 12/23/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 1 of 2	98-12-0763 ASTM D-1946

All concentrations are reported in percent (%) by volume.

Analyte	Concentration	Reporting Limit
Sample Number: TSI		
Oxygen (O_2)	6.5	4.0
Nitrogen (N_2)	19.2	4.0
Methane (CH_4)	38.7	4.0
Carbon Monoxide (CO)	ND	4.0
Carbon Dioxide (CO_2)	35.6	4.0
Sample Number: Method Blank		
Oxygen (O_2)	ND	0.1
Nitrogen (N_2)	ND	0.1
Methane (CH_4)	ND	0.1
Carbon Monoxide (CO)	ND	0.1
Carbon Dioxide (CO_2)	ND	0.1

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 444 Irving Drive, Suite 101 Burbank, CA 91504	Date Sampled: Date Received: Date Analyzed:	12/21/98 12/22/98 12/23/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 2 of 2	98-12-0763 ASTM D-1946

All concentrations are reported in percent (%) by volume.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen (O_2)	6.5	7.3	12	0 - 30
Nitrogen (N_2)	19.2	22.2	14	0 - 30
Methane (CH_4)	38.7	36.7	5	0 - 30
Carbon Monoxide (CO)	ND	ND	NA	0 - 30
Carbon Dioxide (CO_2)	35.6	33.8	5	0 - 30

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Sampled: 12/21/98
Date Received: 12/22/98
Date Analyzed: 12/22/98

Work Order No.: 98-12-0763
Method: EPA TO-14/1150.1 LIST
Page 1 of 6

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS #44

Analyte	Concentration	Reporting Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	2.4	0.5
Carbon Tetrachloride	ND	0.5
Toluene	17.7	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	0.5	0.5
Chlorobenzene	ND	0.5
Total Xylenes	22.1	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Sampled: 12/21/98
Date Received: 12/22/98
Date Analyzed: 12/22/98

Work Order No.: 98-12-0763
Method: EPA TO-14/1150.1 LIST

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS #45

Analyte	Concentration	Reporting Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	3.5	0.5
Carbon Tetrachloride	ND	0.5
Toluene	30.0	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	38.3	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Sampled: 12/21/98
Date Received: 12/22/98
Date Analyzed: 12/22/98

Work Order No.: 98-12-0763
Method: EPA TO-14/1150.1 LIST
Page 3 of 6

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: PPS E

Analyte	Concentration	Reporting Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	3.3	0.5
Carbon Tetrachloride	ND	0.5
Toluene	25.2	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	32.4	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Sampled: 12/21/98
Date Received: 12/22/98
Date Analyzed: 12/24/98

Work Order No.: 98-12-0763
Method: EPA TO-14/1150.1 LIST
Page 4 of 6

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reporting Limit
Vinyl Chloride	ND	4.0
Acetonitrile	ND	8.0
1,1-Dichloroethene	ND	4.0
Methylene Chloride	ND	16
1,1-Dichloroethane	ND	4.0
Chloroform	ND	4.0
1,2-Dichloroethane	ND	4.0
1,1,1-Trichloroethane	ND	4.0
Benzene	1280	80
Carbon Tetrachloride	ND	4.0
Toluene	7080	80
Trichloroethene	ND	4.0
Tetrachloroethene	178	4.0
Chlorobenzene	750	80
Total Xylenes	7640	240
Benzyl Chloride	ND	4.0
1,3-Dichlorobenzene	ND	4.0
1,4-Dichlorobenzene	490	80
1,2-Dichlorobenzene	214	4.0

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Sampled: 12/21/98
Date Received: 12/22/98
Date Analyzed: 12/22/98

Work Order No.: 98-12-0763
Method: EPA TO-14/1150.1 LIST
Page 5 of 6

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reporting Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	ND	0.5
Carbon Tetrachloride	ND	0.5
Toluene	ND	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	ND	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
444 Irving Drive, Suite 101
Burbank, CA 91504

Date Sampled: 12/21/98
Date Received: 12/22/98
Date Analyzed: 12/24/98

Work Order No.: 98-12-0763
Method: EPA TO-14/1150.1 LIST

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reporting Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	ND	0.5
Carbon Tetrachloride	ND	0.5
Toluene	ND	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	ND	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 98-12-0102

Qualifier	Definition
ND	Not detected at indicated reporting limit.

001001

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QUALITY ASSURANCE SUMMARY

Method EPA TO-14

L.A. By Products/Sepich Associates, Inc. | Work Order No.: 98-12-0763
Page 1 of 1 | Date Analyzed: 12/22/98

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Vinyl Chloride	93	95	60 - 140	2	0 - 30
1,2-Dichloroethane	98	98	60 - 140	0	0 - 30
Benzene	91	92	60 - 140	1	0 - 30
Carbon Tetrachloride	94	95	60 - 140	1	0 - 30
Trichloroethene	89	89	60 - 140	0	0 - 30
Tetrachloroethene	95	95	60 - 140	0	0 - 30
1,4-Dichlorobenzene	94	95	60 - 140	1	0 - 30
1,2-Dichlorobenzene	96	96	60 - 140	0	0 - 30

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QUALITY ASSURANCE SUMMARY

Method EPA TO-14

L.A. By Products/Sepich Associates, Inc. | Work Order No.: 98-12-0763

Page 1 of 1 | Date Analyzed: 12/24/98

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Vinyl Chloride	93	95	60 - 140	2	0 - 30
1,2-Dichloroethane	83	84	60 - 140	1	0 - 30
Benzene	113	115	60 - 140	1	0 - 30
Carbon Tetrachloride	84	86	60 - 140	2	0 - 30
Trichloroethene	97	99	60 - 140	2	0 - 30
Tetrachloroethene	104	106	60 - 140	1	0 - 30
1,4-Dichlorobenzene	116	115	60 - 140	0	0 - 30
1,2-Dichlorobenzene	117	118	60 - 140	0	0 - 30

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0763

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	12-21-98

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
J152-6	12/21/98	9:15 AM	C	1	ISS #44	✓	✓	✓						
J152-6	12/21/98	9:40 AM	C	1	ISS #45	✓	✓	✓						
J152-6	12/21/98	10:30 AM	G	1	PPS E	✓	✓							
J152-6	12/21/98	1:30 AM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	12-22-98	09:05
RECEIVED BY:	[illegible]	CALSCIENCE	12-22-98	09:05
RELINQUISHED BY:	[illegible]	CALSCIENCE	12-22-98	10:50
RECEIVED BY:	[illegible]	CALSCIENCE	12/22/98	10:50
RELINQUISHED BY:				
RECEIVED BY:				

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Advanced Technology Laboratories

December 30, 1998

ELAP No.: 1838

Cal Science Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1432

ATTN: Ms. Jody McInerney

Client's Project: 98-12-0763
Lab No.: 31801-001/004

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

Cheryl De Los Reyes
Technical Operations Manager
CDR/kk

Enclosures

This cover letter is an integral part of this analytical report.

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited.

Mailing Address: P.O. Box 92797 Long Beach, CA 90809-2797
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

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Client: Calscience Environmental Laboratories, Inc.
Attn: Jody McInerney

Client's Project: 98-12-0763
Date Received: 12/22/98
Matrix: Air

Total Non-Methane Organics (SCAQMD 25.1)

Lab No.:		31801-01		31801-02		31801-03		31801-04			
Client Sample I.D.:		ISS #44		ISS #45		PPS E		TSI			
Date Sampled:		12/21/98		12/21/98		12/21/98		12/21/98			
Date Analyzed:		12/23/98		12/23/98		12/23/98		12/23/98			
Analyst Initials:		DT		DT		DT		DT			
Dilution Factor:		1.0		1.0		1.0		1.0			
ANALYTE	MDL	DLR	Result	DLR	Result	DLR	Result	DLR	Result		
TNMO (ppmc)	10	10	ND	10	ND	10	ND	10	1,210		
Methane (%)	0.001	0.001	ND	0.001	ND	0.001	ND	0.001	40		
Carbon monoxide (%)	0.001	0.001	NA	0.001	NA	0.001	NA	0.001	ND		
Carbon dioxide (%)	0.010	0.010	NA	0.010	NA	0.010	NA	0.010	37		

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor
NA = Not Applicable

Reviewed/Approved By: Val Mallari
Air Toxics Laboratory Manager
Date 12/29/98

Reviewed/Approved By: Beverly Tanaka
QAQC Manager
Date 12/31/98

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12/22/98

Page 1 of 1

LABORATORY CLIENT:

ADDRESS:

CITY STATE ZIP

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: 98-12-0763

PROJECT CONTACT: Jody McInerney

SAMPLER(S): (SIGNATURE)

P.O. NO.:

QUOTE NO.:

LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___ / ___ / ___.

SPECIAL INSTRUCTIONS
Normal TAT; FAX results

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) (O)	BTEX / MTBE (8021B)	HALOCARBONS (8021B)	VOCs (8260B)	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	EDB / DBCP (504.1 or 8011)	CAC, T22 METALS (6010B)	ICP/MS METALS (6020)	PNAs (8310)	VOCs (TO-14)	CH_4 / TGNMO (25.1)	FIXED GASES (25.1 or D1946)	Report CO_2, CO_2			
1	ISS#44		12/21/98		A	1														X					
2	ISS#45		↓		↓	↓														X					
3	PPS E		↓		↓	↓														X					
4	TSI		↓		↓	↓														X		X			

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature) Diane Malvan	Date:	Time:

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Yellow and Pink copies respectively.

10/10/98 Revision

Q&Q Graphic (714) 898-9702

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SEPICH ASSOCIATES, Inc.
and METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

TEL (818) 707-3036
(805) 552-0000
FAX (818) 707-3012
(805) 552-0001

October 27, 1998

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Third Quarter, 1998
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the twentieth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period July through September 1998.

Monitoring and sampling for this report was performed on July 15, 16, 23, and 28, August 13, 27, and 28, and September 9, 10, 29, and 30, 1998.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products (LABP) was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet (referred to as TSI for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Ambient air sampling requirements are not included in the routine quarterly monitoring for Penrose. Per Rule 1150.1 simultaneous source tests at the inlet and outlet of the gas disposal system are done at Penrose on an annual basis, and reported in the next quarterly report after data is available.

On July 10, 1998 SCAQMD approved an amended version of Rule 1150.1: Control of Gaseous Emissions from Municipal Solid Waste (MSW) Landfill. The amended Rule required that owners of all MSW landfills within the district submit a statement of intent to comply with the amended Rule within 90 days of the amendment date. On July 10, 1998, Sepich Associates/Methane Specialists prepared and submitted (via E-Mail) a revised compliance plan to SCAQMD for the Los Angeles By-Products Company. Per § (k) of the amended Rule the submittal for Penrose LF contains exemptions subject to SCAQMD approval. The previous compliance plan will be in effect until SCAQMD approval of the revised plan is received. SCAQMD approval had not yet been received at the time of submittal of this report.

The application submitted by Los Angeles By-Products Company for Penrose LF for the new amended Rule includes changes from the old Rule. If and when SCAQMD approves, or requests changes in the submitted application for the amended Rule, the text in the quarterly reports will be changed to reflect the organization and terminology used to reflect our compliance to SCAQMD's requests. To differentiate the new format from the old, the changes will be italicized until the complete changeover to the final (approved) new format is realized.

A.1 *Subsurface Refuse Boundary Probe Monitoring (Attachment A, 1.2)*

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

1.2.1: If the TOC concentrations *measured with the FID does not exceed 5% by volume in any of the probes, collect one bag sample from one probe with the highest concentration, or*

1.2.2: If the TOC concentration *measured with the FID exceeds 5% by volume, collect one bag sample per probe from the probes with the highest concentrations above 5% by volume, from at least five probes.*

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.
2. Types and weights of waste materials deposited in the reporting year.
3. Total amount of waste materials deposited to date.
4. Contour map showing updated landfill boundary.
5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.
6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, July through September 1998, field monitoring was conducted on July 15, 16, 23, and 28, August 13, 27, and 28, and September 9, 10, 29, and 30, 1998. Additional perimeter probe monitoring results collected by David Thompson from the City of Los Angeles, Environmental Affairs Department (LEA), are included in Table III. Samples were collected for laboratory analysis on July 23, August 28, and September 29, 1998 (see Exhibit C for field documentation and Exhibit D for laboratory results).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on July 15 and 28, August 13 and 27, September 10 and 30, 1998 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 48 hours of sampling.

Perimeter probe sampling was conducted at Probes U (37' and 68') and V (78') on July 23, at Probe R (10') on August 28, and at Probe V (40') on September 29, 1998. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on July 23, August 28, and September 29, 1998, by focusing sampling efforts in zones where TOC surface sampling had not been conducted recently. During instantaneous surface monitoring, no areas had detectable TOC readings in July, August, or September. On July 23, Areas 36 and 37 were sampled (see Integrated Surface Sampling Map in Exhibits A and C), on August 28, Areas 38 and 39 were sampled, and on September 29, 1998, Areas 40 and 41 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. All ISS field monitoring results for the Third Quarter TOC and H_2S concentrations were non-detect. Laboratory results are summarized in Table IV.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path A was traversed on July 16, and September 9, 1998. Path B was traversed on August 27, 1998. In July, August, and September no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Ogden Power Pacific, Inc. (formerly Pacific Energy) electrical generation plant inlet pipeline on July 23, August 28, and September 29, 1998. TOC was monitored with a GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were last collected on August 22, 1997 and results of inlet analyses were reported in the third and fourth quarter 1997 reports.

B.6 Reporting Requirements

This is the twentieth in a series of quarterly reports and the third quarterly report for Penrose Landfill for 1998. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Positive Lab Service. The early (to mid-) month data is used to select the monthly probe sampling stations and the (mid to) late-month monitoring is used to fulfill any required follow-up probe monitoring. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

Perimeter probe monitoring on July 15, 1998 detected TOC at Probe R (32% @ 10'), Probe U (44% @ 37 'and 42% @ 68'), and Probe V (27% @ 78'). On July 23, 1998, Probe U (@ 37 'and 68') and Probe V (@ 78') were sampled (see lab results in Table I).

Table I - July 1998
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBES SAMPLED ON July 23, 1998

Probe No.	Depth (ft)	TOC 7/15/98 (% Vol)	TOC 7/23/98 (% Vol)	Lab Results 7/23/98 (% Vol)	Follow up TOC 7/28/98 (% Vol)
U	37	44	ND	1.9	ND
U	68	42	ND	11.3	ND
V	78	27	ND	0.0006	ND

Note: Laboratory samples were collected 7/23/98. Field values are volume percent TOC.

ND = None detected NA = Not Available

August 13, 1998 perimeter probe monitoring results showed a high combustible gas reading at Probe U (32% @ 10'). Probe R at the 10-foot depth was sampled on August 28, 1998. Laboratory analytical results were less than one percent of volume methane (see Table II).

Table II - August 1998
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON August 28, 1998

Probe No.	Depth (ft)	TOC 8/13/98 (% Vol)	TOC 8/28/98 (% Vol)	Lab Result 8/28/98 (% Vol)	Follow up TOC 9/10/98 (% Vol)
R	10	32	0.8	0.7	ND

Note: Laboratory samples were collected 8/28/98. Laboratory results are volume percent of methane. Field values are volume percent TOC.

Perimeter probe monitoring on September 10, 1998 resulted in non-detect TOC readings at all probes. On September 29, 1998, Probe V (40 ') was sampled (see lab results in Table III). David Thompson from the City of Los Angeles, LEA, reported high gas readings from Probe P (1.6% @ left and 36% @ right probe), Probe Q (6% @ medium height probe), Probe R (22.5% @ 40'), Probe T (7.5% @ 40'), Probe U (30% @ 37' and 40% @ 68'), and Probe V (3.5% @ 10', 39% @ 40', and 34.5% @ 80') (monitored on September 30, 1998). Follow up perimeter probe monitoring (of probes with detectable concentrations of combustible gas on September 30) was performed on October 6, 1998 by LABP. Ogden is continuing to selectively adjust LFG extraction to reduce off-site migration.

Table III - September 1998
SUMMARY OF FIELD TOC AND METHANE CONCENTRATIONS
FOR PERIMETER PROBE SAMPLED ON September 29, 1998
and LEA DETECTIONS on September 30, 1998

Probe No.	Depth (ft)	TOC 9/10/98 (% Vol)	TOC 9/29/98 (% Vol)	Lab Results 9/29/98 (% Vol)	LEA TOC 9/30/98 (% Vol)	TOC 9/30/98 (% Vol)	Follow-up TOC 10/6/98 (% Vol)
P	10	ND	NA	NA	1.6	ND	0.8
P	40	ND	NA	NA	36	ND	20
Q	mediu m	ND	NA	NA	6	ND	7
R	40	ND	NA	NA	22.5	ND	15
T	40	ND	NA	NA	7.5	ND	7.5
U	37	ND	NA	NA	30	ND	30
U	68	ND	NA	NA	40	ND	36

Probe No.	Depth (ft)	TOC 9/10/98 (% Vol)	TOC 9/29/98 (% Vol)	Lab Results 9/29/98 (% Vol)	LEA TOC 9/30/98 (% Vol)	TOC 9/30/98 (% Vol)	Follow-up TOC 10/6/98 (% Vol)
V	10	ND	NA	NA	3.5	ND	ND
V	40	ND	27	29.9	39	ND	28
V	80	ND	NA	NA	34.5	ND	19

Note: Laboratory samples were collected 9/29/98. Laboratory results are volume percent of methane. Field values are volume percent TOC. Follow-up mitigation is ongoing. Ogden is monitoring the above probes on a daily basis in conjunction with mitigation measures. Perimeter probe monitoring will be performed by Los Angeles By-Products during the last week of October.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. Table IV summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - THIRD QUARTER 1998
SUMMARY of ANALYTICAL RESULTS from INTEGRATED SURFACE SAMPLE

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
7/23/98 AREA # 36	2	10
7/23/98 AREA # 37	2	7
8/28/98 AREA # 38	4	6
8/28/98 AREA # 39	3	3
9/29/98 AREA # 40	<1	3
9/29/98 AREA # 41	8	11

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Third Quarter of 1998.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 43.5% methane on July 23, 43.4% methane on August 28, and 40.8% methane on September 29, 1998. Dreager tube analytical results were 85 ppm H_2S on July 23, 90 ppm H_2S on August 28, 1998 and 90 ppm H_2S on September 29, 1998. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling was conducted on August 22, 1997. The analytical results from the samples collected at the plant inlet and generator exhaust, for source testing in 1997, were included in Exhibit E of the Third and Fourth Quarter 1997 Reports.

C.6 Report Requirements

This report constitutes the 1998, Third Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

Positive Lab Service detected high TOC concentrations from perimeter probes during the July 15, and August 13, 1998 monitoring events. David Thompson (LEA) detected high TOC concentrations from perimeter probes on September 30, 1998. Mitigation methods, including selective gas extraction from the areas of excessive landfill gas (LFG) migration, were enacted and follow-up monitoring of the same probes was performed in compliance with SCAQMD Rule 1150.1.

Major compliance endeavors enacted by Los Angeles By-Products Company and Ogden Power Pacific in the past several years include:

- Mitigation well (8 wells) program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter 1995 (including changing the gas collection system); probes 2 through 8 were replaced at this time; and
- Replacement probe (A1, K1, and J1) installation in Fourth Quarter, 1995.
- Closure plan construction at clubhouse and BMX track locations in 1997 and 1998.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
exp. 6-30-2000
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.620/atf

Public Facilities Branch / SCAQMD October 23, 1998

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Mr. David Thompson

California Integrated Waste Management Board

- Mr. Peter Janicke

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Third Quarter, 1998
- EXHIBIT D: Laboratory Analytical Results - Third Quarter, 1998

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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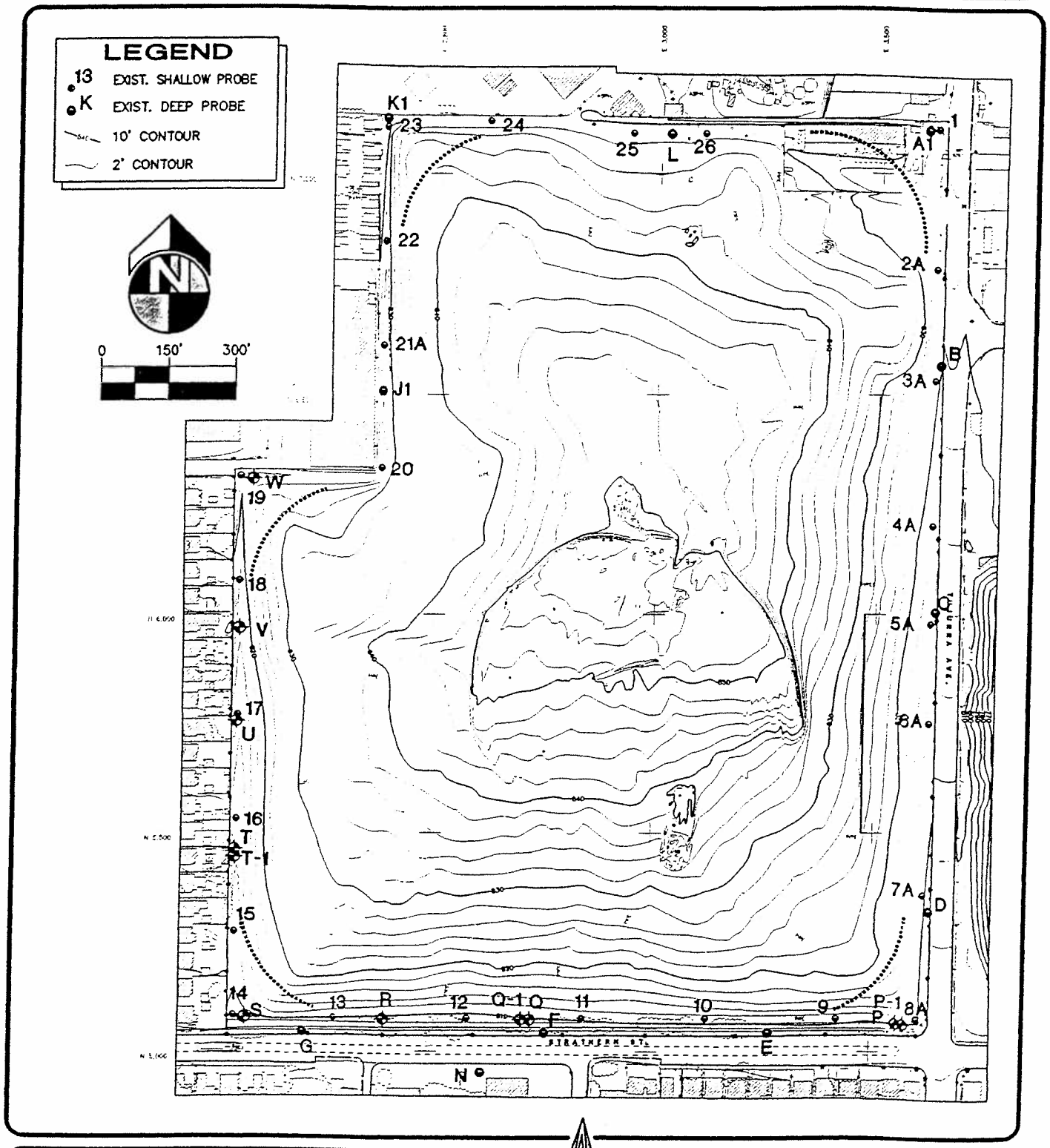
PENROSE LANDFILL MONITORING PROBE LOCATIONS



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GAS CONTROL
SPECIALISTS

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Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

3-12-98 J152-6PL

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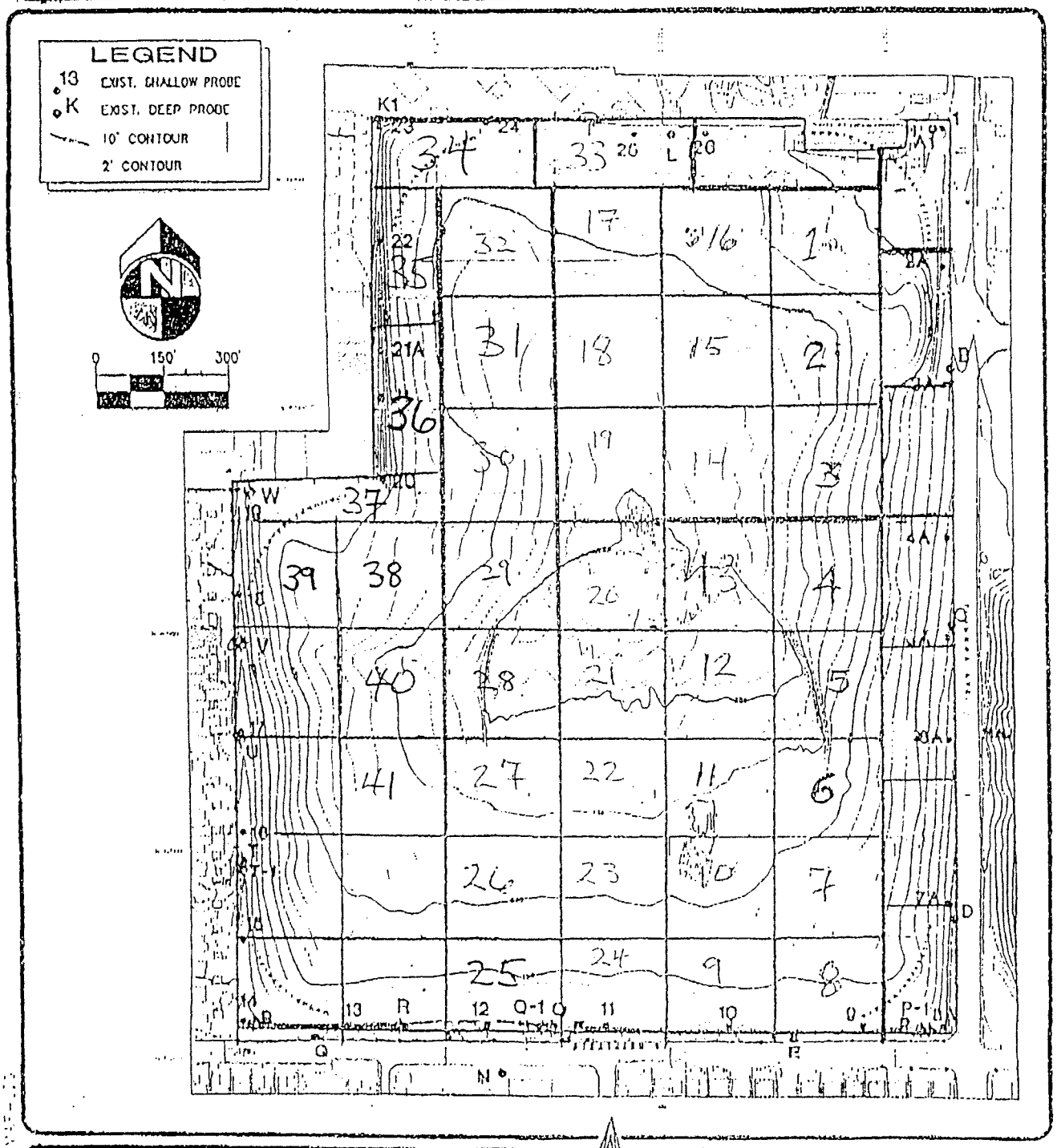
APR-10-1997 13:44 FROM SEPICH/METHANE SPEC TO 12133341170 P.01

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



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TOTAL P.01

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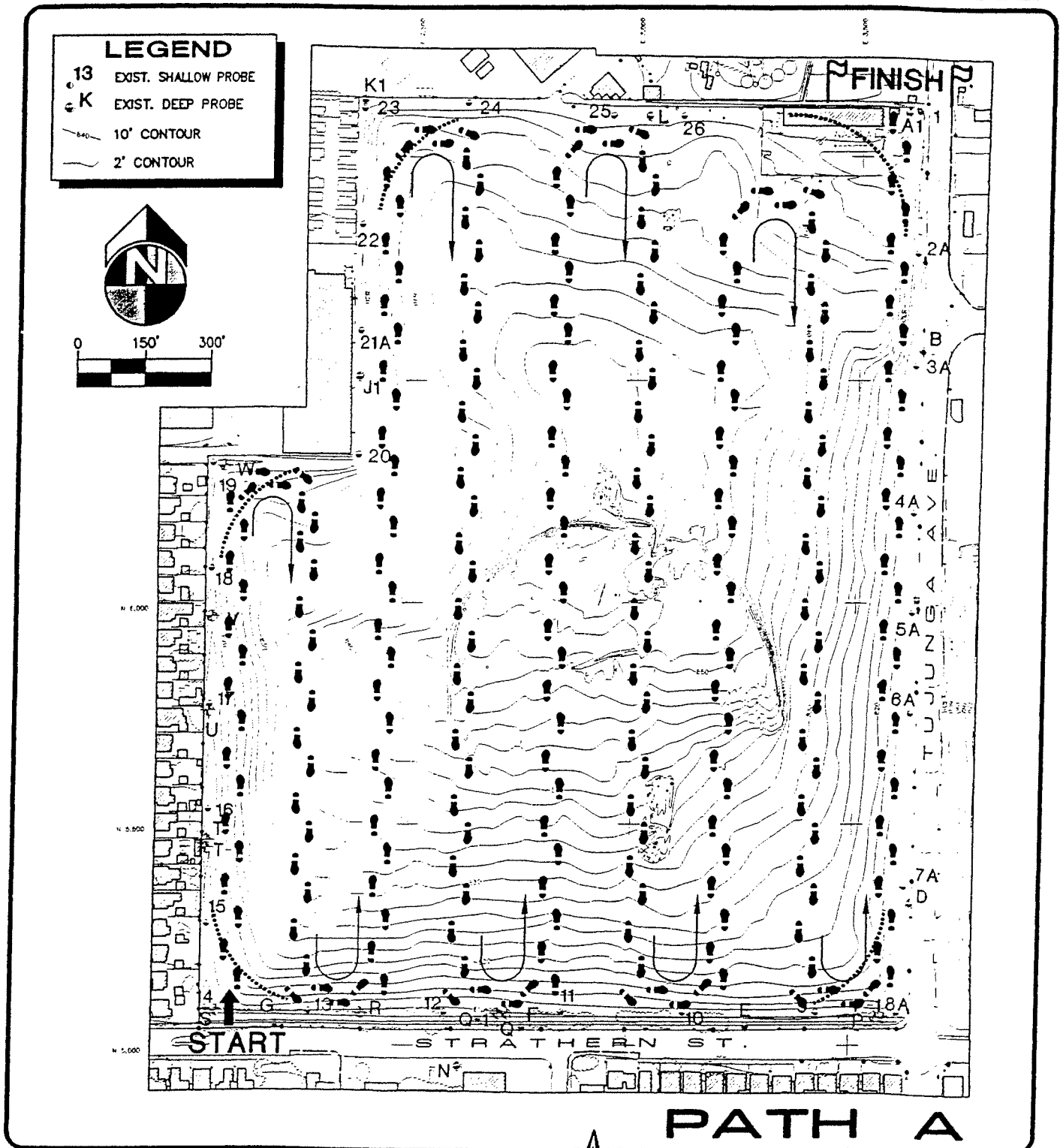
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

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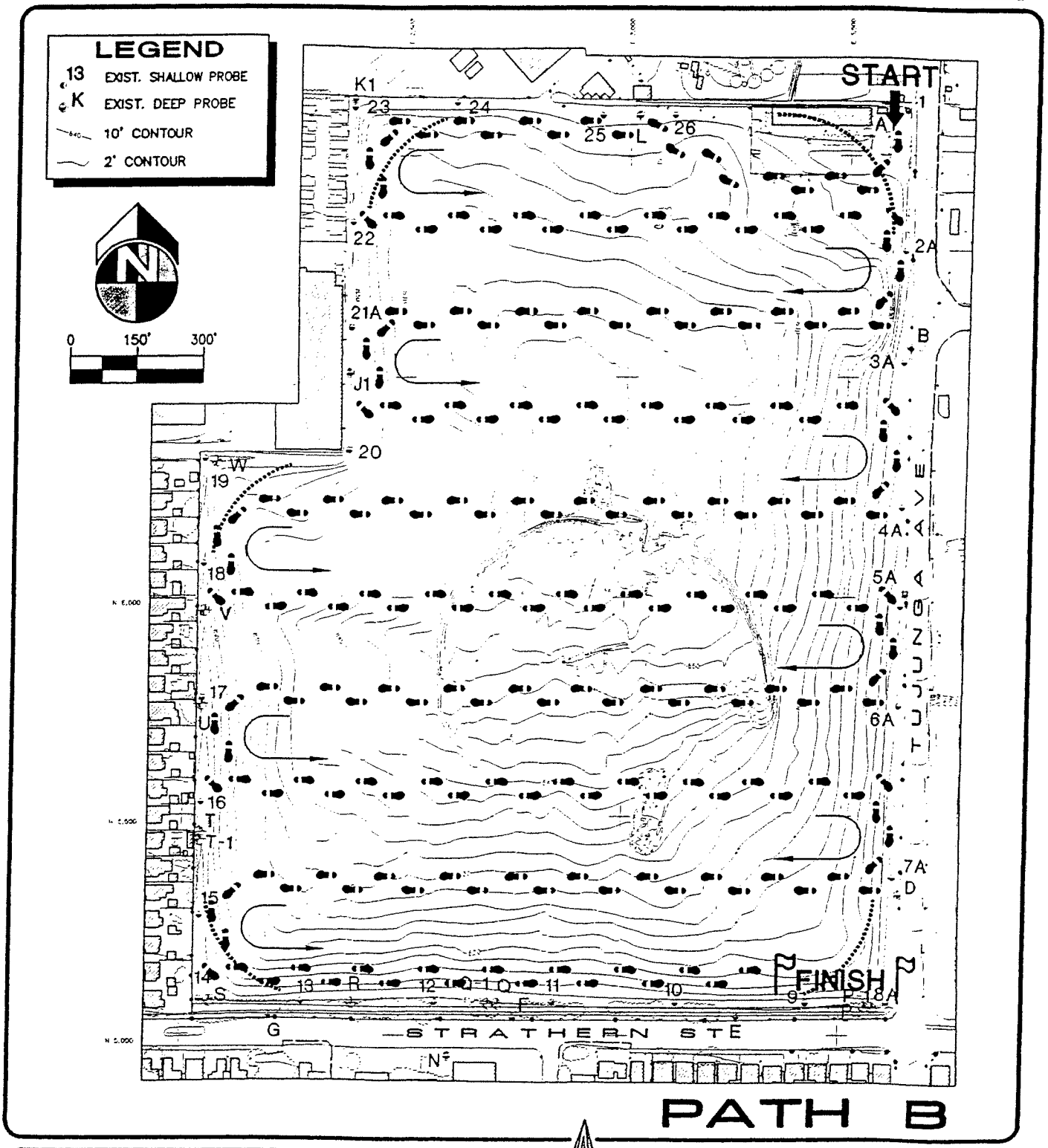
INSTANTANEOUS SURFACE MONITORING



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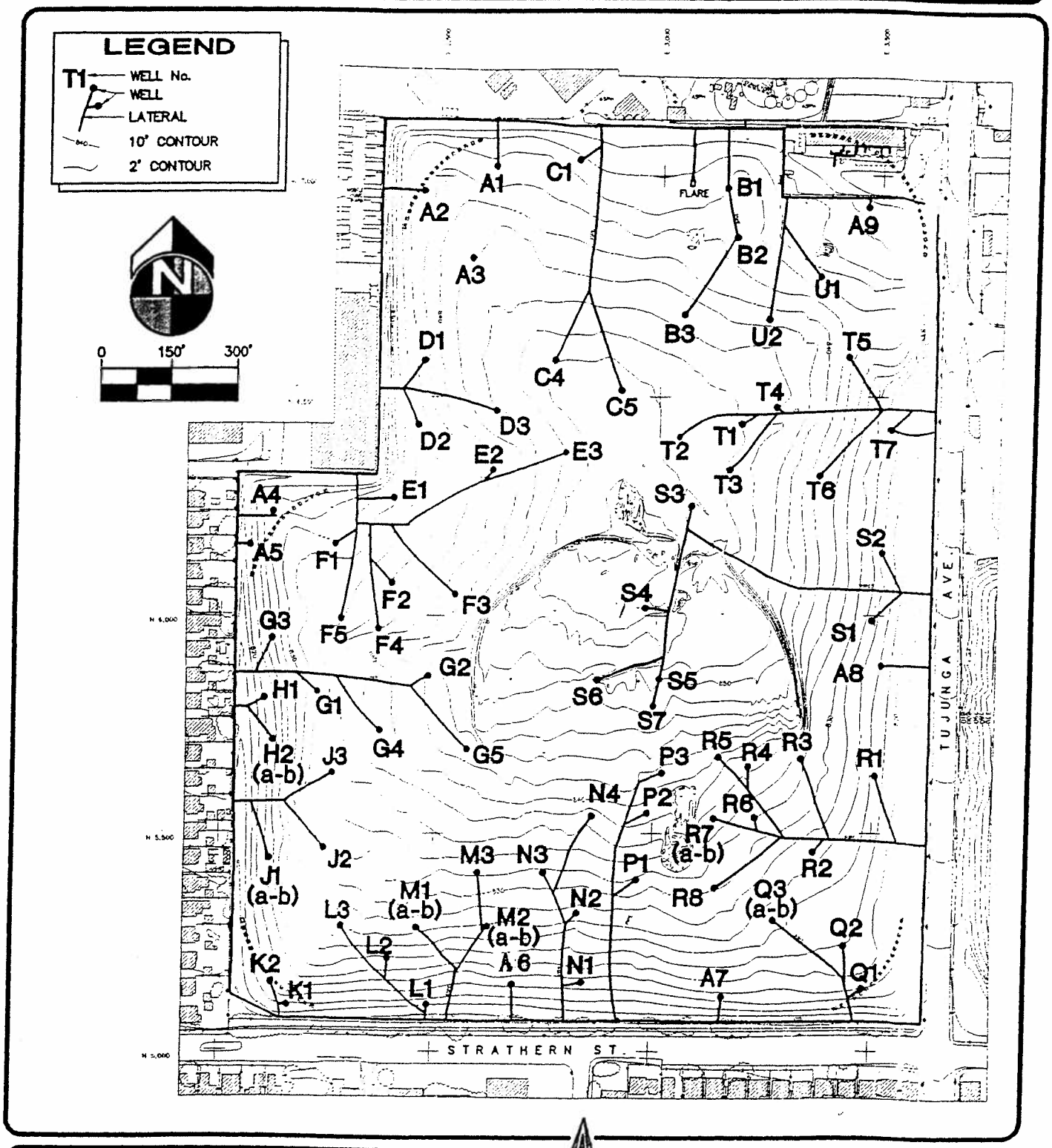
PENROSE LANDFILL
GAS COLLECTION SYSTEM



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10-15-96 WELL-SYS

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EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Third Quarter, 1998

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

June 7, 1998

Page 2

FILE NO: 70237

LAB NO: 8187110100

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40	ND	@ 40'	ND
@ 73'	PLUGGED	@ 68'	ND	@ 73	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Gerardo Sapien

Gerardo Sapien
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

July 7, 1998

FILE NO: 70237

LAB NO: 8187110100

SAMPLE: On 07/01/98 at 14:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

July 16, 1998

RECEIVED
JUL 20 1998
L.A. BY-PROD CO.

FILE NO: 72986

LAB NO: 8196134200

SAMPLE: On 07/15/98 at 07:15, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

POSITIVE LAB SERVICE

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Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

July 16, 1998

Page 2

FILE NO: 72986

LAB NO: 8196134200

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site O	Percent Methane	(6) Site O1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	32%	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	44%	@ 40'	ND	@ 40'	ND
@ 73'	PLUGGED	@ 68'	42%	@ 75'	27%	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Gerardo Sapien

Gerardo Sapien
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakanoto

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 7/16/98

INSPECTION REPORT

CLIMATE: (light) (clear) fog | cloudy overcast rain | <32° F 33°-55° 56°-70° | 71°-85° 86°-100° >100° F | (still) (breeze) wind | dry (moderate) humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Today was clear with very few clouds and bright sunshine. Electronic wind speed indicator detected a .2 to 1.3 mph occasional puff of wind from South. A foxboro 128, last calibrated on 7/16/98 by Robert McAllister was used in monitor. Contractor followed path 'A'.

Monitor began at 11:00 am and finished at 12:45 pm, with a result of ND.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

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SEPICH ASSOCIATES, Inc.
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 7/23/98

INSPECTION REPORT

CLIMATE: (bright) clear fog | (cloudy) overcast rain | <32° F 33°-55° 56°-70° | 71°-85° 86°-100° >100° F | (still) breeze wind | dry moderate (humid)

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was HOT! with a high cloud layer. Last recorded rain was over one week ago. All air samples were collected in 10-liter Tedlar bags and placed into a Black trash bag for protection from Sunlight. The OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 7/16/98. The TOC instrument used was a Natural Gas Indicator model npl-204, last calibrated by J.G. Tucker and Son on 2-18-96. The H_2S level was determined by Drager tubes and a Drager Pump. ISS samples were collected in a portable self-

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET ___ OF ___

001032

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6

DATE 7/23/98

REMARKS CONTINUED:

contained unit with its own internal power supply, which collected samples at 400 cc/min.

PPS R 10' was collected at 7:15 am and tested for TOC(ND) and H_2S (ND). ISS #36 was collected at 7:20 am and tested for OVA (ND) and H_2S (ND). ISS #37 was collected at 7:55 Am and tested for OVA (ND) and H_2S (ND). PPS U 37' was collected at 8:30 am and tested for H_2S (ND) and TOC(ND). PPS U 68' was collected at 8:50 am and tested for TOC(ND) and H_2S (ND). PPS V 78' was collected at 9:50 am and tested for TOC(ND) and H_2S(ND). The TSI was collected at 1:00 pm and tested for H_2S (85 ppm) and TOC (44%).

Robert mallister
INSPECTOR

PRINCIPAL

SHEET__OF__

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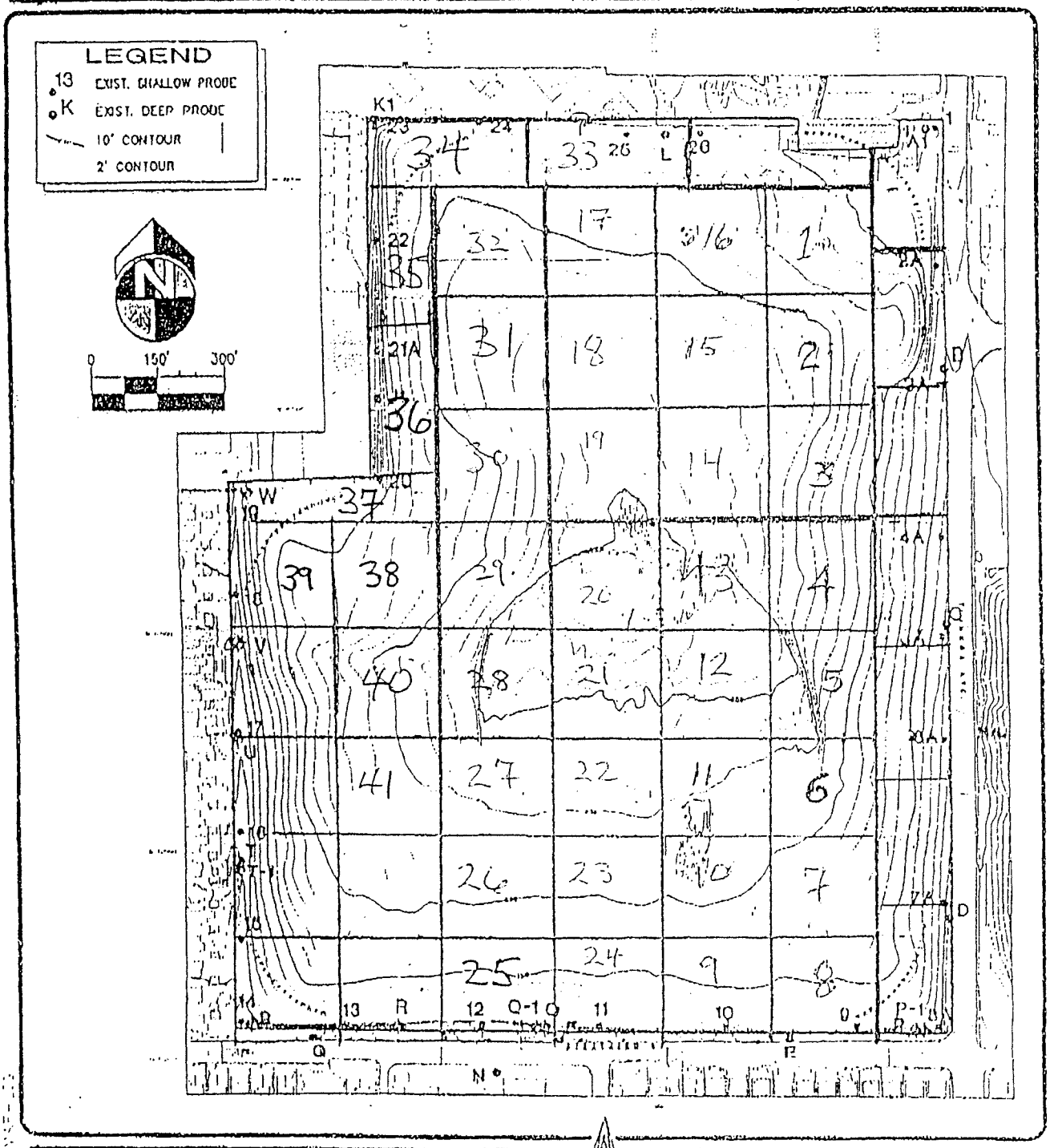
APR-10-1997 13:44 FROM SEPICH/METHANE SPECIALIST TO

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



SEPICH ASSOCIATES, Inc.
CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
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Los Angeles By-Products Co.
Incorporated 1925
1610 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

SHEET ___ OF ___

TOTAL P.01

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 211-4170

PENROSE LANDFILL

Date 7-23-98

Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		

REMARKS: Hit with High cloud layer
ISS#36 - 7:20 Am
ISS#37 - 7:55 Am
PPS U 37' - 8:30 Am
PPS U 68' - 8:50 Am
PPS V 78' - 9:50 Am
TSI - 1:00 PM
PPS R 10' - 7/23/98 7:15 Am

PROBE #			PROBE #					PROBE #		TOC	H_2S
1								Q	10'		
2			B						40'		
3			C	GREEN-21'					75'		
4				YELLOW-41'				Q-1	120'		
5				ORANGE-61'					158'		
6				RED-81'				R	10'	ND	ND
7			D						40'		
8			E						80'		
9			F						120'		
10			G					S	10'		
11			H						40'		
12			I	GREEN-17'					80'		
13				YELLOW-37'					120'		
14				ORANGE-57'				T	10'		
15				RED-77'					40'		
16			J						73'		
17			K					T-1	72'		
18			L	GREEN-45'				U	10'		
19				YELLOW-65'					37'	ND	ND
20				ORANGE-85'					68'	ND	ND
21				RED-105'				V	10'		
22			M						40'		
23			N	GREEN-22'					78'	ND	ND
24				YELLOW-45'				W	10'		
25				ORANGE-68'					40'		
26				RED-90'					80'		
	OVA	H_2S	P	10'					120'		
ISS#36		ND		40'					158'		
ISS#37		ND		80'					TSI	44%	85 ppm
			P-1	120'							

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
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Form prepared by:

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

July 29, 1998

RECEIVED
AUG 03 1998
L.A. BY-PROD CO.

FILE NO: 70237

LAB NO: 8209142600

SAMPLE: On 07/28/98 at 07:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J	ND	T1-72'	ND
11	ND	23	ND	K	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

July 29, 1998

Page 2

FILE NO: 70237

LAB NO: 8209142600

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site V	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	PLUGGED	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Gerardo Sapien
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

August 17, 1998

FILE NO: 72986

LAB NO: 8226114600

SAMPLE: On 08/13/98 at 14:45, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J	ND	T1-72'	ND
11	ND	23	ND	K	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

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Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

August 17, 1998

Page 2

FILE NO: 72986

LAB NO: 8226114600

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site Q	Percent Methane	(6) Site O1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	32%	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	PLUGGED	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Gerardo Sapien A.

Gerardo Sapien
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakamoto

POSITIVE LAB SERVICE

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Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

September 2, 1998

RECEIVED
SEP 0 1998
LA BY-PROD CO.

FILE NO: 70237

LAB NO: 8240142700

SAMPLE: On 08/27/98 at 09:40, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

POSITIVE LAB SERVICE

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Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

September 2, 1998

Page 2

FILE NO: 70237

LAB NO: 8240142700

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	PLUGGED	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Gerardo Sapien
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6

DATE 8/27/98

INSPECTION REPORT

CLIMATE:

bright / clear / fog	cloudy / overcast / rain	<32° F / 33°-55° / 56°-70°	71°-85° / 86°-100° / >100° F	mild / breeze / wind	dry / moderate / humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Weather was nice with slight cloud overcast and warm temperatures. Electronic wind speed indicator detected ND. Last recorded rainfall was over one week ago. Contractor used a FOXBORO 128 last calibrated by Robert McAllister on 7/16/98. Contractor followed PATH 'B'. Monitor began at 7:00 AM and finished at 8:40 AM with a result of ND.

☐ REINSPECTION REQUIRED

Robert mcallist
INSPECTOR

PRINCIPAL

SHEET__OF__

001042

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 8/28/98

INSPECTION REPORT

CLIMATE: (warm) clear fog — cloudy overcast rain — <32° F, 33°-55°, 56°-70° — 71°-85°, 86°-100°, >100° F — still breeze wind — dry moderate humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Pretty Blue Skies with warm temperature. Electronic wind speed indicator test ND for wind velocity. All samples were collected in 10-liter Tedlar bags and placed into a black plastic bag for protection from sunlight. The OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 7/16/98. The TOC instrument used was a Natural Gas Indicator model npl-204, last calibrated by J.G. Tucker and Son on 8/7/98. The ISS were collected in a portable self contained unit with its own internal power supply, which

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET ___ OF ___

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6

DATE 8/28/98

REMARKS CONTINUED:

collected samples at 400 cc/min. The H_2S level was determined by Drager tubes and a drager pump.

ISS #39 was collected at 8:54 am and tested for OVA (ND) and H_2S (ND). ISS # 38 was tested at 9:21 am and tested for OVA (ND) and H_2S (ND). PPS R 10' was collected at 8:15 am and tested for TOC (.8%) and H_2S (ND). The TSI was collected at 2:00 pm and tested for TOC (45%) and H_2S (90 ppm).

Robert Mullin
INSPECTOR

PRINCIPAL

IS 00025 4/15/94

SHEET__OF__

001044

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 8/28/98

Job # 3152-9

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	H_2S	OVA
ISS #38	ND	ND
ISS #39	ND	ND

REMARKS:
Blue skies - WARM - NO WIND
Some haze around the mountains
ISS 38 - 9:21 AM R 10' - 8:15 AM
ISS 39 - 8:54 AM TSI - 2:00 P.M.

PROBE #						PROBE #		H_2S	TOC
						Q	10'		
	B						40'		
C	GREEN-21'						75'		
	YELLOW-41'					Q-1	120'		
	ORANGE-61'						158'		
	RED-81'					R	10'	ND	.8%
	D						40'		
	E						80'		
	F						120'		
	G					S	10'		
	H						40'		
I	GREEN-17'						80'		
	YELLOW-37'						120'		
	ORANGE-57'					T	10'		
	RED-77'						40'		
	J						73'		
	K					T-1	72'		
L	GREEN-45'					U	10'		
	YELLOW-65'						37'		
	ORANGE-85'						68'		
	RED-105'					V	10'		
	M						40'		
N	GREEN-22'						73'		
	YELLOW-45'					W	10'		
	ORANGE-68'						40'		
	RED-90'						80'		
P	10'						120'		
	40'						158'		
	80'						TSI	90ppm	45%
P-1	120'								

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3036 FAX: (818) 707-3012 (805) 373-9321 (805) 373-8987

001045

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SEPICH ASSOCIATES, Inc.
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TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 9/9/98

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): ROBERT McAllister

REMARKS: Thick cloud layer with cool temperatures. The electronic wind speed indicator detected a 1.8 mph. breeze from the South. OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on Sept. 8, 1998. Last recorded rainfall was over 72 hours ago. Contractor followed Path 'A' and began monitor at 7:10 am and finished at 8:41 pm. Result of monitor was ND.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

September 14, 1998

RECEIVED
SEP 16 1998
L.A. BY-PROD CO.

FILE NO: 72986

LAB NO: 8254103400

SAMPLE: On 09/10/98 at 14:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

September 14, 1998

Page 2

FILE NO: 72986

LAB NO: 8254103400

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40	ND	@ 40'	ND
@ 73'	PLUGGED	@ 58'	ND	@ 73	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Gerardo Sapien

Gerardo Sapien
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakamoto

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 9/29/98

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was cool with thick cloud cover. Electronic wind speed indicator detected ND. Last recorded rainfall was over one week ago. All air samples were collected in 10-liter Tedlar bags and placed in a Black Trash bag for protection from sunlight. The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on Sept. 8, 1998. The TOC instrument used was a Natural Gas indicator model npl-204, last calibrated by J.G. Tucker and Son on 8/7/98. The ISS were colleted in

☒ REINSPECTION REQUIRED V 40' probe monitor

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. 3752-6

DATE 9/29/98

REMARKS CONTINUED:

a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min. The H_2S level was determined by Drager tubes and a Drager pump.

The ISS #40 was collected at 7:15 am and tested for H_2S (ND) and OVA (ND). ISS #41 was collected at 7:50 am and tested for H_2S (ND) and OVA (ND). PPS V 40' was tested at 8:30 am and tested for TOC (27%) and H_2S (2 ppm). The TSI was collected at 9:55 am and tested for TOC (45%) and H_2S (90 ppm).

Robert McAllister
INSPECTOR

PRINCIPAL

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 9/29/98

Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	OVA	H_2S
ISS #40	ND	ND
ISS #41	ND	ND

REMARKS: Cloudy - OVERCAST - COOL TEMPERATURES - NO WIND -

ISS #40 - 7:15 Am. TSI - 9:55 Am

ISS #41 - 7:50 Am. V 40' - 8:30 Am

PROBE #								PROBE #		TOC	H_2S
								Q	10'		
			B						40'		
			C	GREEN-21'					75'		
				YELLOW-41'				Q-1	120'		
				ORANGE-61'					158'		
				RED-81'				R	10'		
			D						40'		
			E						80'		
			F						120'		
			G					S	10'		
			H						40'		
			I	GREEN-17'					80'		
				YELLOW-37'					120'		
				ORANGE-57'				T	10'		
				RED-77'					40'		
			J						73'		
			K					T-1	72'		
			L	GREEN-45'				U	10'		
				YELLOW-65'					37'		
				ORANGE-85'					68'		
				RED-105'				V	10'		
			M						40'	27%	2ppm.
			N	GREEN-22'					73'		
				YELLOW-45'				W	10'		
				ORANGE-68'					40'		
				RED-90'					80'		
			P	10'					120'		
				40'					158'		
				80'					TSI	45%	90ppm
			P-1	120'							

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

Form prepared by:

001051

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

October 1, 1998

RECEIVED
OCT 07 1998

FILE NO: 70237

LAB NO: 8274085800

SAMPLE: On 09/30/98 at 14:45, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

DUE TO (LEA) READS ON THIS DAY

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

October 1, 1998

Page 2

FILE NO: 70237

LAB NO: 8274085800

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site O	Percent Methane	(6) Site O1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40	ND	@ 40'	ND
@ 73'	PLUGGED	@ 68'	ND	@ 73	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Gerardo Sapien

Gerardo Sapien
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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Closed Facility Inspection Repor

Enforcement Agency: City of Los Angeles

FACILITY FILE NUMBER	PROGRAM CODE LOCAL = L STATE = S	INSPECTION DATE MM DD YY	TIME IN / TIME OUT	INSPECTION TIME
19-AR-0006	L	9/30/93		

FACILITY NAME: Primrose Landfill

RECEIVED BY (OPERATOR): Mr. [illegible]

FACILITY LOCATION: 8300 Tujunga Ave Sun Valley

OWNER:

INSPECTOR: Dalio Thompson

INSPECTOR SIGNATURE: [illegible]

ALSO PRESENT:

THE ABOVE FACILITY WAS INSPECTED FOR COMPLIANCE WITH APPLICABLE SECTIONS OF DIVISION 20 OF THE PUBLIC RESOURCES CODE (PRC) AND TITLE 27 CALIFORNIA CODE OF REGULATION (CCR).

THE STANDARDS BELOW ARE CONSIDERED IN COMPLIANCE UNLESS OTHERWISE MARKED WITH ONE OF THE FOLLOWING: V = VIOLATION A = AREA OF CONCERN NA = NOT APPLICABLE

SITES SUBJECT TO ARTICLE : STANDARDS

CLOSED SITES	V	A	NA
CLOSURE PLANS			
21860 - CERTIFICATION OF CLOSURE			
21290 - REVISION OF APPROVED PLANS FOR CPC MAINTENANCE			
RECORDS			
21130 - EMERGENCY RESPONSE PLAN			
21120 - RECORDING			
21200 - CHANGE OF OWNERSHIP			
SECURITY			
21135 - SECURITY AT CLOSED SITES			
GRADING			
21142 - FINAL GRADING			
21145 - SLOPE STABILITY			
DRAINAGE AND EROSION CONTROL			
21150 - DRAINAGE/EROSION CONTROL			
MONITORING AND CONTROL SYSTEMS			
21163 - LF GAS CONTROL/LEACHATE CONTACT			
GAS MONITORING AND CONTROL SYSTEMS			
20919 - EXEMPTIONS			
20919 - GAS CONTROLS			
20921 - GAS MONITORING/CONTROL			
20923 - MONITORING			

GAS MONITORING AND CONTROL SYSTEMS	V	A	NA
20923 - PERIMETER MONITORING NETWORK			
20923 - STRUCTURE MONITORING			
20923 - MONITORED PARAMETERS			
20923 - MONITORING FREQUENCY			
20923 - REPORTING			
20923 - CONTROL	X		
POST CLOSURE			
21190 - POST-CLOSURE MAINTENANCE			
21190 - POST-CLOSURE LAND USE			
OTHER			
21750 - Site Maintenance		X	
SITES UNDERGOING CLOSURE			
21110 - TIMEFRAMES FOR CLOSURE			
21113 - STRUCTURE REMOVAL			
21140 - FINAL COVER			
OTHER			

COMMENTS (USE BACK OF PAGE OR ADDITIONAL PAGE)

Violation - Gas Control (20937)

Area of Concern (20750)

See attached report

DISTRIBUTION: TOP - CIWMB MIDDLE - EA BOTTOM - OPERATOR

NOTICE OF INSPECTION
CLOSED LANDFILLS

FACILITY: Penrose Landfill
SWIS: 19-AR-0006
INSPECTION DATE: September 30, 1998

Violation

The following violation of Title 27, California Code of Regulations (CCR) was noted during the inspection:

§20937, Gas Control

Corrective action developed and implemented when gas monitoring indicates concentrations of methane in excess of 1.25% within on-site structures and/or 5.0% at the property boundary.

Landfill gas monitoring was conducted with a Landtec GA-90 with an attached hydrocarbon filter. Landfill gas was detected above the regulatory limit at perimeter probes P, Q, R, T, U and V (See table below). L.A. By-Products is required to take steps to prevent the off-site migration of landfill gas. Due to the frequency of gas being detected in the perimeter probe system, the operator needs to submit monitoring results to the LEA on monthly basis.

Probe P (Left)	1.6 %	Probe Q (Short)	ND	Probe R (10')	ND
Probe P (Right)	36.0 %	Probe Q (Medium)	6.0%	Probe R (40')	22.5 %
Probe P (North)	ND	Probe Q (Tall)	ND	Probe R (80')	ND
				Probe R (120')	ND
Probe T (10')	ND	Probe U (Shallow)	ND	Probe V (Shallow)	3.5 %
Probe T (40')	7.5 %	Probe U (37')	30.0 %	Probe V (40')	39.0%
Probe T (Deep)	ND	Probe U (68')	40.0 %	Probe V (80')	34.5 %
Probe T-1	ND				

- All readings are given as percent by volume in air
- ND – Non-Detect

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Area of Concern

The following area of concern of Title 27, California Code of Regulations (CCR) was noted during the inspection:

§20750. Site Maintenance

The operator shall implement a preventative maintenance program to monitor and promptly repair or correct deteriorated or defective conditions with respect to requirements of the CIWMB standards, and conditions established by the LEA. All other aspects of the disposal site shall be kept in a state of reasonable repair.

The perimeter probe system is in need of repair. Probes E, F and N were buried and needed to be unearthed before monitoring. Several of the vault boxes have become damaged and need to be replaced. Probe N (Red) has broken off in the PVC piping and must be repaired. The operator is required to properly maintain the perimeter probe system. Each probe should be kept in working condition and properly labeled.

Comments

The operator is in the process of filling the hole that was excavated for the clubhouse foundation. Any additional changes to the approved postclosure land use plans need to be submitted to the LEA prior to the start of construction.

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
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JOB NAME: PENROSE

JOB No. 5152-6

DATE 10/6/98

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain

<32° F / 33°-55° / 56°-70° / 71-85 / 86-100 / >100° F

still / breeze / wind

dry / moderate / humid

LOCATION: PENROSE

PURPOSE: Perimeter Probe Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Monitor began at 1:15 pm. Scattered clouds with bright sunshine, also a south wind 2.4 to 5.6 mph. The following probes were monitored with the following Result.

V	10	ND	S	10	ND	P	10	.8%
	40	28%		40	ND		40	20%
	80	19%		80	ND		80	ND
				120	ND			
U	10	ND						
	37	30%	R	10	ND			
	40	36%		40	15%			
				80	ND			
T	10	ND						
	40	7.5%	Q	TALL	ND			
	73	ND		MED	7%			
				SHORT	ND			

☐ REINSPECTION REQUIRED

OTF for RM
INSPECTOR

PRINCIPAL

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EXHIBIT D

Laboratory Analytical Results - Third Quarter, 1998

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	07/22/98
1810 East 25th Street	Date Received:	07/24/98
Los Angeles, CA 90058	Date Analyzed:	07/24/98
	Work Order No.:	98-07-0614
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #36		
Methane	2	1
TGNMO	10	1
Sample Number: ISS #37		
Methane	2	1
TGNMO	7	1
Sample Number: PPS U 37'		
Methane	1.9*	0.1
TGNMO	22	1
Sample Number: PPS U 68'		
Methane	11.3*	0.1
TGNMO	97	1
Sample Number: PPS V 78'		
Methane	6	1
TGNMO	8	1

* Reported in percent (%) by volume.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	07/23/98
1810 East 25th Street	Date Received:	07/24/98
Los Angeles, CA 90058	Date Analyzed:	07/24/98
	Work Order No.:	98-07-0614
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reporting Limit
Sample Number: TS1		
Oxygen plus Argon	0.5	0.1
Nitrogen	18.6	0.1
Methane	43.5	0.1
Carbon Dioxide	38.9	0.1
Carbon Monoxide	380	2
TGNMO	833	1
Sample Number: Method Blank #1		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Dioxide	ND*	0.1
TGNMO	ND	1
Sample Number: Method Blank #2		
Methane	ND	1
Carbon Monoxide	ND	2

* Reported in percent (%) by volume.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	07/2~~2~~3/98 07/24/98 07/24/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 3 of 3	98-07-0614 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: PPS U 37' (Duplicate)				
Oxygen plus Argon	19.2*	19.2*	0	0 - 25
Nitrogen	81.6*	81.3*	0	0 - 25
Methane	1.9*	1.9*	0	0 - 25
Carbon Dioxide	3.0*	2.9*	3	0 - 25
Carbon Monoxide	26	24	8	0 - 25
TGNMO	22	23	4	0 - 25

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-07-0614		
QC Batch ID:	980724	Date Collected:	07/23/98
Matrix:	Air	Date Received:	07/24/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/25/98

Client Sample Number: **ISS #36**
Lab Sample Number: 98-07-0614-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.4	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	3.3	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	7.7	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	4.0	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-07-0614		
QC Batch ID:	980724	Date Collected:	07/23/98
Matrix:	Air	Date Received:	07/24/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/24/98

Client Sample Number: **ISS #37**
Lab Sample Number: 98-07-0614-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	1.9	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	4.6	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	8.6	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-07-0614		
QC Batch ID:	980724	Date Collected:	07/23/98
Matrix:	Air	Date Received:	07/24/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/24/98

Client Sample Number: **PPS U 37'**
Lab Sample Number: 98-07-0614-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	7.0	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	1.1	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	16.0	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	15.2	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-07-0614		
QC Batch ID:	980724	Date Collected:	07/22/98
Matrix:	Air	Date Received:	07/24/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/25/98

Client Sample Number: **PPS U 68'**
Lab Sample Number: 98-07-0614-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	10.1	4.0		ppb (v/v)
Acetonitrile	ND	8.0		ppb (v/v)
1,1-Dichloroethene	ND	4.0		ppb (v/v)
Methylene Chloride	ND	16		ppb (v/v)
1,1-Dichloroethane	ND	4.0		ppb (v/v)
Chloroform	ND	4.0		ppb (v/v)
1,2-Dichloroethane	ND	4.0		ppb (v/v)
1,1,1-Trichloroethane	ND	4.0		ppb (v/v)
Benzene	ND	4.0		ppb (v/v)
Carbon Tetrachloride	ND	4.0		ppb (v/v)
Toluene	4.1	4.0		ppb (v/v)
Trichloroethene	ND	4.0		ppb (v/v)
Tetrachloroethene	6.3	4.0		ppb (v/v)
Chlorobenzene	91.4	4.0		ppb (v/v)
Xylenes (total)	26.5	12		ppb (v/v)
Benzyl Chloride	ND	4.0		ppb (v/v)
1,3-Dichlorobenzene	ND	4.0		ppb (v/v)
1,4-Dichlorobenzene	ND	4.0		ppb (v/v)
1,2-Dichlorobenzene	ND	4.0		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-07-0614		
QC Batch ID:	980724	Date Collected:	07/23/98
Matrix:	Air	Date Received:	07/24/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/25/98

Client Sample Number: **PPS V 78'**
Lab Sample Number: 98-07-0614-5

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.8	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	2.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	2.8	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	5.0	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-07-0614		
QC Batch ID:	980724	Date Collected:	07/23/98
Matrix:	Air	Date Received:	07/24/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/25/98

Client Sample Number: **TSI**
Lab Sample Number: 98-07-0614-6

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	340	80		ppb (v/v)
Acetonitrile	ND	160		ppb (v/v)
1,1-Dichloroethene	ND	80		ppb (v/v)
Methylene Chloride	ND	320		ppb (v/v)
1,1-Dichloroethane	ND	80		ppb (v/v)
Chloroform	ND	80		ppb (v/v)
1,2-Dichloroethane	ND	80		ppb (v/v)
1,1,1-Trichloroethane	ND	80		ppb (v/v)
Benzene	1220	80		ppb (v/v)
Carbon Tetrachloride	ND	80		ppb (v/v)
Toluene	9840	80		ppb (v/v)
Trichloroethene	ND	80		ppb (v/v)
Tetrachloroethene	100	80		ppb (v/v)
Chlorobenzene	970	80		ppb (v/v)
Xylenes (total)	12900	240		ppb (v/v)
Benzyl Chloride	ND	80		ppb (v/v)
1,3-Dichlorobenzene	ND	80		ppb (v/v)
1,4-Dichlorobenzene	550	80		ppb (v/v)
1,2-Dichlorobenzene	ND	80		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-07-0614		
QC Batch ID:	980724	Date Collected:	07/23/98
Matrix:	Air	Date Received:	07/24/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/25/98

Client Sample Number: **PPS R 10'**
Lab Sample Number: 98-07-0614-7

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	2.5	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	5.3	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	22.4	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	6.3	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-07-0614		
QC Batch ID:	980724	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/24/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-485

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	980724	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	07/24/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	135	128	60-140	5	0-30	
1,2-Dichloroethane	71	75	60-140	5	0-30	
Benzene	103	110	60-140	6	0-30	
Carbon Tetrachloride	88	94	60-140	6	0-30	
Trichloroethene	82	80	60-140	2	0-30	
Tetrachloroethene	85	87	60-140	2	0-30	
1,4-Dichlorobenzene	133	133	60-140	0	0-30	
1,2-Dichlorobenzene	140	139	60-140	0	0-30	

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(614)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	7-23-98

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
J152-6	7-22 98	7:20 AM	C	1	ISS # 36	✓	✓	✓						
J152-6	7-22 98	7:55 AM	C	1	ISS # 37	✓	✓	✓						
J152-6	7-22 98	8:30 AM	G	1	PPS U 37'	✓	✓							
J152-6	7-22 98	8:50 AM	G	1	PPS U 68'	✓	✓							
J152-6	7-22 98	9:50 AM	G	1	PPS V 78'	✓	✓							
J152-6	7-22 98	1:00 PM	G	1	TSI	✓	✓						✓	
J152-6	7-23 98	7:15 AM	G	1	PPS R 10'	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	7-	
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	CALSCIENCE	7/24/98	1600

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	08/27/98
1810 East 25th Street	Date Received:	08/28/98
Los Angeles, CA 90058	Date Analyzed:	08/29/98
	Work Order No.:	98-08-0761
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #38		
Methane	4	1
TGNMO	6	1
Sample Number: ISS #39		
Methane	3	1
TGNMO	3	1
Sample Number: PPS R 10'		
Methane	0.7*	0.1
TGNMO	28	1
Sample Number: TSI		
Oxygen plus Argon	0.5*	0.1
Nitrogen	17.5*	0.1
Methane	43.4*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	38.6*	0.1
TGNMO	514	1

* Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	08/27/98 08/28/98 08/29/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 2 of 2	98-08-0761 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen plus Argon	0.5*	0.5*	0	0 - 25
Nitrogen	17.5*	17.5*	0	0 - 25
Methane	43.4*	43.4*	0	0 - 25
Carbon Monoxide	ND*	ND*	NA	0 - 25
Carbon Dioxide	38.6*	38.6*	0	0 - 25
TGNMO	514	587	13	0 - 25

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-08-0761		
QC Batch ID:	980829A	Date Collected:	08/27/98
Matrix:	Air	Date Received:	08/28/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/29/98

Client Sample Number: **ISS #38**
Lab Sample Number: 98-08-0761-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	7.2	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	0.8	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.8	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	23.3	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.8	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	5.6	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	2.2	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-08-0761		
QC Batch ID:	980829A	Date Collected:	08/27/98
Matrix:	Air	Date Received:	08/28/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/29/98

Client Sample Number: **ISS #39**
Lab Sample Number: 98-08-0761-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	5.3	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	0.7	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.6	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	21.4	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.6	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	4.8	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	1.7	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-08-0761		
QC Batch ID:	980829A	Date Collected:	08/27/98
Matrix:	Air	Date Received:	08/28/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/29/98

Client Sample Number: **PPS R 10'**
Lab Sample Number: 98-08-0761-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	6.8	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	0.7	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.2	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	22.2	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.8	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	4.2	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	1.7	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-08-0761		
QC Batch ID:	980829A	Date Collected:	08/27/98
Matrix:	Air	Date Received:	08/28/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/29/98

Client Sample Number: **TSI**
Lab Sample Number: 98-08-0761-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	270	160		ppb (v/v)
Acetonitrile	ND	320		ppb (v/v)
1,1-Dichloroethene	ND	160		ppb (v/v)
Methylene Chloride	ND	640		ppb (v/v)
1,1-Dichloroethane	ND	160		ppb (v/v)
Chloroform	ND	160		ppb (v/v)
1,2-Dichloroethane	ND	160		ppb (v/v)
1,1,1-Trichloroethane	ND	160		ppb (v/v)
Benzene	1130	160		ppb (v/v)
Carbon Tetrachloride	ND	160		ppb (v/v)
Toluene	14900	160		ppb (v/v)
Trichloroethene	220	160		ppb (v/v)
Tetrachloroethene	ND	160		ppb (v/v)
Chlorobenzene	1260	160		ppb (v/v)
Xylenes (total)	21400	480		ppb (v/v)
Benzyl Chloride	ND	160		ppb (v/v)
1,3-Dichlorobenzene	ND	160		ppb (v/v)
1,4-Dichlorobenzene	1110	160		ppb (v/v)
1,2-Dichlorobenzene	ND	160		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-08-0761		
QC Batch ID:	980829A	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/30/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-515

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	980829A	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	08/30/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	94	99	60-140	5	0-30	
1,2-Dichloroethane	119	118	60-140	0	0-30	
Benzene	101	102	60-140	0	0-30	
Carbon Tetrachloride	109	109	60-140	0	0-30	
Trichloroethene	124	124	60-140	0	0-30	
Tetrachloroethene	123	123	60-140	0	0-30	
1,4-Dichlorobenzene	128	127	60-140	0	0-30	
1,2-Dichlorobenzene	124	124	60-140	0	0-30	

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JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — PERIMETER PROBE SAMPLES, PLANT INLET SAMPLE	J152-6	8-27-98

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
J152-6	8/27/98	7:21 AM	C	1	ISS #38	✓	✓		✓					
J152-6	8/27/98	8:54 AM	C	1	ISS #39	✓	✓		✓					
J152-6	8/27/98	8:15 AM	G	1	PPS R 10'	✓	✓							
J152-6	8/27/98	2:00 PM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO		
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	CEL	8/28/98	1600

001000

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	09/29/98
1810 East 25th Street	Date Received:	10/01/98
Los Angeles, CA 90058	Date Analyzed:	10/02/98
	Work Order No.:	98-10-0017
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #40		
Methane	ND	1
TGNMO	3	1
Sample Number: ISS #41		
Methane	8	1
TGNMO	11	1
Sample Number: V '40		
Methane	29.9*	0.1
TGNMO	248	1
Sample Number: TSI		
Oxygen plus Argon	1.3*	0.1
Nitrogen	21.3*	0.1
Methane	40.8*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	36.6*	0.1
TGNMO	610	1
Sample Number: Method Blank #1		
Methane	ND	1
TGNMO	ND	1

*Result reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	09/29/98 10/01/98 10/02/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 2 of 2	98-10-0017 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank #2		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1

QA/QC

Sample Number: 98-10-0002-1 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen	20.4*	20.6*	1	0 - 25
Nitrogen	79.3*	79.1*	0	0 - 25
Methane	707	717	1	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	3610	3640	1	0 - 25
TGNMO	725	753	4	0 - 25

*Result reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-10-0017		
QC Batch ID:	981002A	Date Collected:	09/29/98
Matrix:	Air	Date Received:	10/01/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	10/03/98

Client Sample Number: **ISS #40**
Lab Sample Number: 98-10-0017-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	1.0		ppb (v/v)
Acetonitrile	ND	2.0		ppb (v/v)
1,1-Dichloroethene	ND	1.0		ppb (v/v)
Methylene Chloride	38.2	4.0		ppb (v/v)
1,1-Dichloroethane	ND	1.0		ppb (v/v)
Chloroform	ND	1.0		ppb (v/v)
1,2-Dichloroethane	ND	1.0		ppb (v/v)
1,1,1-Trichloroethane	ND	1.0		ppb (v/v)
Benzene	1.3	1.0		ppb (v/v)
Carbon Tetrachloride	ND	1.0		ppb (v/v)
Toluene	14.5	1.0		ppb (v/v)
Trichloroethene	ND	1.0		ppb (v/v)
Tetrachloroethene	ND	1.0		ppb (v/v)
Chlorobenzene	ND	1.0		ppb (v/v)
Xylenes (total)	ND	3.0		ppb (v/v)
Benzyl Chloride	ND	1.0		ppb (v/v)
1,3-Dichlorobenzene	ND	1.0		ppb (v/v)
1,4-Dichlorobenzene	ND	1.0		ppb (v/v)
1,2-Dichlorobenzene	ND	1.0		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-10-0017		
QC Batch ID:	981002A	Date Collected:	09/29/98
Matrix:	Air	Date Received:	10/01/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	10/03/98

Client Sample Number: **ISS #41**
Lab Sample Number: 98-10-0017-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	1.0		ppb (v/v)
Acetonitrile	ND	2.0		ppb (v/v)
1,1-Dichloroethene	ND	1.0		ppb (v/v)
Methylene Chloride	12.2	4.0		ppb (v/v)
1,1-Dichloroethane	ND	1.0		ppb (v/v)
Chloroform	ND	1.0		ppb (v/v)
1,2-Dichloroethane	ND	1.0		ppb (v/v)
1,1,1-Trichloroethane	ND	1.0		ppb (v/v)
Benzene	1.1	1.0		ppb (v/v)
Carbon Tetrachloride	ND	1.0		ppb (v/v)
Toluene	12.3	1.0		ppb (v/v)
Trichloroethene	ND	1.0		ppb (v/v)
Tetrachloroethene	ND	1.0		ppb (v/v)
Chlorobenzene	ND	1.0		ppb (v/v)
Xylenes (total)	ND	3.0		ppb (v/v)
Benzyl Chloride	ND	1.0		ppb (v/v)
1,3-Dichlorobenzene	ND	1.0		ppb (v/v)
1,4-Dichlorobenzene	ND	1.0		ppb (v/v)
1,2-Dichlorobenzene	ND	1.0		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-10-0017		
QC Batch ID:	981002A	Date Collected:	09/29/98
Matrix:	Air	Date Received:	10/01/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	10/02/98

Client Sample Number: **V 40**
Lab Sample Number: 98-10-0017-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	47	40		ppb (v/v)
Acetonitrile	ND	80		ppb (v/v)
1,1-Dichloroethene	ND	40		ppb (v/v)
Methylene Chloride	ND	160		ppb (v/v)
1,1-Dichloroethane	ND	40		ppb (v/v)
Chloroform	ND	40		ppb (v/v)
1,2-Dichloroethane	ND	40		ppb (v/v)
1,1,1-Trichloroethane	ND	40		ppb (v/v)
Benzene	104	40		ppb (v/v)
Carbon Tetrachloride	ND	40		ppb (v/v)
Toluene	70	40		ppb (v/v)
Trichloroethene	ND	40		ppb (v/v)
Tetrachloroethene	ND	40		ppb (v/v)
Chlorobenzene	ND	40		ppb (v/v)
Xylenes (total)	159	120		ppb (v/v)
Benzyl Chloride	ND	40		ppb (v/v)
1,3-Dichlorobenzene	ND	40		ppb (v/v)
1,4-Dichlorobenzene	ND	40		ppb (v/v)
1,2-Dichlorobenzene	ND	40		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-10-0017		
QC Batch ID:	981002A	Date Collected:	09/29/98
Matrix:	Air	Date Received:	10/01/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	10/02/98

Client Sample Number: **TSI**
Lab Sample Number: 98-10-0017-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	400		ppb (v/v)
Acetonitrile	ND	800		ppb (v/v)
1,1-Dichloroethene	ND	400		ppb (v/v)
Methylene Chloride	ND	1600		ppb (v/v)
1,1-Dichloroethane	ND	400		ppb (v/v)
Chloroform	ND	400		ppb (v/v)
1,2-Dichloroethane	ND	400		ppb (v/v)
1,1,1-Trichloroethane	ND	400		ppb (v/v)
Benzene	1630	400		ppb (v/v)
Carbon Tetrachloride	ND	400		ppb (v/v)
Toluene	8120	400		ppb (v/v)
Trichloroethene	ND	400		ppb (v/v)
Tetrachloroethene	ND	400		ppb (v/v)
Chlorobenzene	760	400		ppb (v/v)
Xylenes (total)	8440	1200		ppb (v/v)
Benzyl Chloride	ND	400		ppb (v/v)
1,3-Dichlorobenzene	ND	400		ppb (v/v)
1,4-Dichlorobenzene	410	400		ppb (v/v)
1,2-Dichlorobenzene	ND	400		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-10-0017		
QC Batch ID:	981002A	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	10/02/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-547

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	981002A	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	10/02/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	75	74	60-140	1	0-30	
1,2-Dichloroethane	76	75	60-140	1	0-30	
Benzene	84	86	60-140	2	0-30	
Carbon Tetrachloride	78	78	60-140	0	0-30	
Trichloroethene	73	74	60-140	1	0-30	
Tetrachloroethene	79	78	60-140	1	0-30	
1,4-Dichlorobenzene	90	88	60-140	2	0-30	
1,2-Dichlorobenzene	100	97	60-140	3	0-30	

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0017

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	9/29/98

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	C44					Fixed Gas	REMARKS
J152-6	9/29 98	7:15 AM		1	ISS #40	✓	✓	✓						
J152-6	9/29 98	7:50 AM		1	ISS #41	✓	✓	✓						
J152-6	9/29 98	8:30 AM		1	V'40	✓	✓							
J152-6	9/29 98	9:55 AM		1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	10/01/98	1050
RECEIVED BY:	Ray [illegible]	CALSCIENCE	10/01/98	1050
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:	Ray [illegible]	CALSCIENCE	10/01/98	1450
RECEIVED BY:	[illegible]	CFL	10/1/98	1450

TOTAL P.12

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1 3 1998

SCAQMD Rule 1150.1 Compliance Plan for Penrose Landfill, Sun Valley, California

Prepared for
Los Angeles By Products Company
1810 East 25th Street
Los Angeles, California 90058
Attention: Mr. Mike McAllister

Prepared by
Sepich Associates/Methane Specialists
680 Walnut Street, Moorpark CA 93021
tel (818) 707-3036; fax (818) 707-3012
tel (805) 552-0000; fax (805) 552-0001

July 10, 1998

foreword

The recommendations contained in this report are based upon Sepich Associates'/Methane Specialists' understanding of existing conditions at the site, including much information developed by others. The recommendations are based upon our experience with this site, and with other and similar methane gas conditions. Any new information or change in existing conditions, with respect to the site, buildings, soil gas, or other factors should be brought immediately to Sepich Associates'/Methane Specialists' attention. If information related to us, or further field observations by Sepich Associates/Methane Specialists reveal unanticipated or changed conditions, we reserve the right to make alterations or additions to the original recommendations.

This report and these recommendations have been prepared solely for Los Angeles By-Products Company (LABP), and are for use only by LABP and their authorized consultants and subcontractors on this project site.

Note that all Penrose LF alternative methods are shown in italics on this submittal.

All compliance conditions not by LABP (by others, i.e. Ogden) are bold.

SUMMARY *This plan describes Los Angeles By-Products' method of compliance with South Coast Air Quality Control District (SCAQMD) Rule 1150.1 landfill monitoring regulations. Compliance is to follow the regulatory guidelines, except as specifically noted below, where alternative methods can provide equivalent levels of emission control and enforceability.*

COMPLIANCE PLAN

Los Angeles By-Products (LABP) landfill is "inactive" having received no waste since 1985. LABP wishes to comply with the more stringent "active" landfill requirements schedule, as follows. The paragraph letter/number designations below match those in SCAQMD's April 10, 1998 rule. Where italics are used below, the language represents an alternative method of, or a clarification of proposed compliance. **Where bold is used the data is by others (Ogden).** The monitoring proposed is generally a continuation of the existing program which has be ongoing since 1993.

(d) <u>active landfill collection/control</u>:

(1) *utilize existing landfill gas (LFG) collection/control system*
- Q_{max} per 40CFR
- NMOC ↓98% or <20ppm initial/annual source tests

(2) collection/control installed *(existing)*
(3) *utilize existing refuse boundary sampling probes*
(4) *existing probes* to have <5% TOC
(5) integrated surface sampling (ISS) with 50,000 ft² grids <50 ppm TOC
(6) instantaneous surface monitoring (ISM) with <500 ppm TOC anywhere
(7) shut down collection within one hour if control inoperable
(8) operate collection/control until all (k) exemption criteria met
(9) wind speed by hand held meter (see catalog cuts)

<u>justification for alternative methods</u>:

LABP has maintained and monitored approximately 65 soil gas probes outside the boundary of the landfill for more a decade. The landfill gas generation and migration patterns are well known for the landfill. The adjacent Tujunga Wash sediments are capable of providing migration routes for LFG. Probes in these deposits are not all as deep as the depths suggested in Rule 1150.1, but are adequate to identify off-site migration.

The existing gas collection system was installed in part in the mid 1980's. The system of landfill gas extraction and collection is operated by Ogden Power Pacific, Inc. (formerly Pacific Energy). Ogden Power Pacific generates electricity with five generators at a power plant located at the north end of the property. The power plant also uses LFG from two other landfills located in Sun Valley.

Currently the methane concentrations at the header to the collection control system are commonly about 40% methane by volume.

(e) <u>active landfill sampling/monitoring</u>:

(1) monthly *(presently performed semimonthly)* boundary probe monitoring, TOC < 5%, TAC per Rule

(A) if TOC > 5% record probe/location

(B) adjust vacuum; resample 10 days

(C) if second TOC > 5% readjust vacuum; resample 10 days;

third TOC > 5% a violation unless new wells added / 45 days

(2) monthly integrated samples TOC/TAC

(A) TOC > 50 ppm *(at minimum of two 50,000 ft² grids based on monthly instantaneous surface monitoring results or by random alternation if complete ISM monitoring was non-detect)*; grid must be recorded

(B) add cover and/or adjust vacuum, resample w/in 10 days

no sampling w/in 72 hours of precipitation

(C) second TOC > 50 ppm add cover/readjust vacuum; resample 10 days;

third TOC > 50 ppm is violation unless new wells /45 days

(3) quarterly *(presently performed monthly)* instantaneous TOC

TOC < 500 ppm 3 quarters --> annual *(will maintain monthly schedule)*

TOC > 500 ppm any annual --> quarterly *(will maintain monthly schedule)*

(A) TOC > 500 ppm mark physically on landfill (stake or paint)

(B) add cover or adjust vacuum, resample /10 days

(C) 2nd TOC > 500 ppm add cover/vacuum; resample /10 days;

third TOC > 500 ppm is violation unless new wells /45 days

(4) monthly header TOC/TAC upstream of treatment/control

(5) *ambient air sampling is performed based on instantaneous surface monitoring results: if ISM exceedance is not repairable,*

will revert to monthly ambient air sampling for TOC/TAC

(6) **NMOC reduced 98% or <20ppm total** (inlet sampling by LABP, **Ogden responsible for compliance)**

- other than enclosed combuster, submit appropriate data

justification for alternative methods:

As discussed above, LABP has maintained and monitored soil gas probes outside the boundary of the landfill for more than a decade. Each probe is presently monitored semimonthly for SCAQMD Rule 1150.1 compliance. It is proposed to continue this ongoing semimonthly monitoring program for refuse boundary probes around the landfill.

Current provisions for the South Coast Air Quality Management District (SCAQMD) Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 of the SCAQMD (revision, October 1989) were implemented in 1993. The site-specific set of procedures used at Penrose Landfill contains the alternatives to the SCAQMD Rule 1150.1 Compliance Plan, listed below.

- Compliance condition (e)(2) would require over 50 integrated surface samples be taken on a monthly bases. Instead SCAQMD had agreed that the instantaneous surface monitoring can be used as a basis for determining the number of integrated samples, with a minimum of two per month.
  The ISM requirement (condition (e)(3)), done on a monthly basis rather than the required quarterly basis, typically has not found detectable gas due a very thick cover layer, including a geosynthetic clay liner (GCL) installed in 1995, and leak detection techniques implemented by Ogden Power Pacific (collection system leaks are located and mitigated quickly to maintain optimum gas mixtures for power plant operations). Visual monitoring for, subsequent instrument monitoring of, and mitigation of landfill perimeter subsidence cracks is done on a regular basis.

- Compliance condition (e)(5) has not been a part of the ongoing Rule 1150.1 alternative monitoring program. In the five years since implementation of Rule 1150.1, ISM and ISS have been non-detect or insignificant except for rare instances (which would have precluded detection by monthly ambient air sampling). ISM exceedances have been detected from perimeter

subsidence cracks (particularly after the 1994 Northridge Earthquake) and downwind of extraction well drilling operations. ISS exceedances have been detected under post-Northridge Earthquake conditions, during excavation of a leaking pipe in the collection system, and also due to a leaking extraction well. If ISM and ISS exceedance become a regular, irreparable, condition monthly ambient air sampling will be implemented.

(f) <u>keep landfill 1150 records for 5 years</u>:

(1) records to be kept at the facility

(A) for the life of control equipment, including

(*i*) vendor specifications

(*ii*) Q_{max} calculations

(B) *semimonthly* boundary probes data/exceedances/mitigation

(C) monthly integrated samples data/exceedances/mitigation

(D) *monthly* instantaneous data/exceedances/mitigation

(E) monthly header data

(F) *no* ambient data

(G) any/all collection/control down time > 1 hour

(H) NMOC 98% reduction or <20ppm data

(*i*) record exceedances @ *vent stack*

(*ii*) record Q

(2) submit hard copy or electronically to SCAQMD

(A) initial source test w/in 180 days start up; subsequent annual testing w/in 45 days anniversary

(B) w/in 45 calendar days of end each calendar quarter

(*i*) submit all exceedances/mitigation data; or a statement that no exceedances occurred

(*ii*) submit all TAC data

(C) submit closure report w/in 30 days cessation use of system

(D) decommissioning report w/in 30 days of decommissioning w/

(*i*) copy of closure report

(*ii*) copy initial source test showing min. 15 yrs. operation

(*iii*) proof of meeting exemption criteria (k)

<u>justification for alternative methods</u>:

The site-specific set of procedures used at Penrose Landfill contains the alternatives to the SCAQMD Rule 1150.1 Compliance Plan, listed below.

- Compliance conditions (f)(1)(A) and (B), (f)(2)(A) and (B), and (f)(1)(H) are difficult, if not impossible, to comply to, regarding

subsidence cracks (particularly after the 1994 Northridge Earthquake) and downwind of extraction well drilling operations. ISS exceedances have been detected under post-Northridge Earthquake conditions, during excavation of a leaking pipe in the collection system, and also due to a leaking extraction well. If ISM and ISS exceedance become a regular, irreparable, condition monthly ambient air sampling will be implemented.

(f) <u>keep landfill 1150 records for 5 years</u>:

(1) records to be kept at the facility

(A) for the life of control equipment, including

(*i*) vendor specifications

(*ii*) Q_{max} calculations

(B) *semimonthly* boundary probes data/exceedances/mitigation

(C) monthly integrated samples data/exceedances/mitigation

(D) *monthly* instantaneous data/exceedances/mitigation

(E) monthly header data

(F) *no* ambient data

(G) any/all collection/control down time > 1 hour

(H) NMOC 98% reduction or <20ppm data

(*i*) record exceedances @ *vent stack*

(*ii*) record Q

(2) submit hard copy or electronically to SCAQMD

(A) initial source test w/in 180 days start up; subsequent annual testing w/in 45 days anniversary

(B) w/in 45 calendar days of end each calendar quarter

(*i*) submit all exceedances/mitigation data; or a statement that no exceedances occurred

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(D) decommissioning report w/in 30 days of decommissioning w/

(*i*) copy of closure report

(*ii*) copy initial source test showing min. 15 yrs. operation

(*iii*) proof of meeting exemption criteria (k)

<u>justification for alternative methods</u>:

The site-specific set of procedures used at Penrose Landfill contains the alternatives to the SCAQMD Rule 1150.1 Compliance Plan, listed below.

- Compliance conditions (f)(1)(A) and (B), (f)(2)(A) and (B), and (f)(1)(H) are difficult, if not impossible, to comply to, regarding

monitoring for the required parameters for Penrose LFG exclusively. Ogden Power Pacific has five generators burning the emissions from Penrose Landfill. The emissions are mixed with emissions from two other landfills. Destruction and/or removal efficiency determinations, regarding Penrose gases (exclusively), would not be meaningful; thus compliance regarding Penrose LFG (exclusively) can not be accomplished without major revamping of the system.

Ogden Power Pacific is operating under several SCAQMD permits. These permits require annual exhaust testing. During the annual power plant exhaust testing we have been simultaneously sampling Penrose LFG at the plant inlet and analyzing the samples and reporting the results for the required parameters.

(g) <u>active landfill compliance schedule</u>:

Submit plan within 90 days (i.e. by July 10, 1998)

(h) <u>inactive landfill requirements</u>: n/a, comply with active requirements

(i) <u>alternatives</u>: "equivalent levels of emission control and enforceability"

(j) <u>test methods</u>: per Rule

(1) (A) USEPA Method 25 or 18(AP42) per CFR40 Part 60 Appendix A for NMOC ↓98%
(B) USEPA Method 25 per CFR40 Part 60 Appendix A for TOC < 20ppm
(2) other test methods approved in writing

(k) <u>exemptions</u>: LABP will operate the system with the goal of meeting all of the following requirements for temporary exemption. It is the intent of LABP to request the temporary exemption after meeting the requirements:

(1) existing refuse boundary probes <5% TOC;
integrated <50 ppm TOC; and
instantaneous <500 ppm TOC
(2) less than 55 tons (50 megagrams) per year NMOC per 40CFR60.752(b)(2)(v)(C) as measured 3 times in 60-180 days
(3) insignificant health risk per SCAQMD 1401 and 1402 or below:

(A) proximity to children, elderly, sick
(B) migration beyond landfill property boundary
(C) complaint history
(D) age and closure date
(E) amount and type of waste deposited
(F) per Attachment A Table 1, $\leq 10^{-6}$ new cancer risk
(G) TAC / Attachment A Table 1, acute/chronic Hazard Index ≤ 1

(4) landfill in compliance with SCAQMD Rule 402 Nuisance

(l) loss of exemption: Upon loss of any temporary exemption as described above, LABP would again comply with all active landfill requirements.

Attachment A

1.0 SUBSURFACE BOUNDARY PROBES

1.1 *use existing probes surrounding landfill*
1.1.1 on property outside trash
1.1.2 less than 100' from trash
1.1.3 spacing per land w/in 1/4 mile
100' commercial/residential
500' public access
650' open space no public access
1000' landfills with liners
1.1.4 10'/>25%25'/>50%50'/75%75' probe construction
1.2 monthly TOC w/ flame ionization detector (FID) plus Tedlar bag TOC/TAC
1.2.1 if all TOC<5%, analyze one bag from probe w/ highest TOC
1.2.2 if some TOC>5%, analyze up to 5 Tedlar bags w/ highest TOC
1.3 procedures
1.3.1 evacuate to get steady TOC 30 seconds
1.3.2 approved FID
1.3.3 10 liter Tedlar bag / 10 minutes light sealed container
1.4 samples w/in 72 hours TOC by EPA or FID; TAC by EPA
1.5 chain of custody
1.6 recording
1.6.1 TOC & TAC by probe on site map w/ topo and LFG system
1.6.2 maintain and report per (f)

2.0 INTEGRATED

2.1 monthly *two bags minimum from 50,000 ft² grids (based on ISM results), 50 ppm limit*
2.2 conditions
2.2.1 wind < 5 mph avg. or < 10 mph instantaneous
2.2.2 dry, no precipitation 72 hours
2.3 equipment: portable, stainless collection probe, rotameter, pump, 10 liter bag, light sealed,
2.4 specifications
2.4.1 power, batteries or other
2.4.2 pump, viton diaphragm
2.4.3 bag, 10 liter tedlar
2.4.4 rotameter, borosilicate or non-reactive, 0-1000 cc/min
2.4.5 flow control, needle valve
2.4.6 stainless steel funnel
2.4.7 fittings and tubing, stainless or teflon
2.5 procedures

2.5.one 8-10 liters/grid
2.5.2 zero to three inches above grade
2.5.3 333 cc/min approx.
2.5.4 2,600 linear feet / 25 minutes
2.6 samples w/in 72 hours TOC by EPA or FID; TAC by EPA
2.6.1 lab 10% of bags w/ TOC>50 ppm or
2.6.2 two samples minimum of all TOC< 50 ppm
2.7 chain of custody
2.8 recording
2.8.1 TOC & TAC by grid on site map w/ topo and LFG system
2.8.2 wind speed and direction during sampling
2.8.3 maintain and report per (f)

3.0 INSTANTANEOUS
3.1 *monthly* entire landfill
3.2 FID
3.2.1 EPA Method 21
3.2.2 calibrate using 10,000 ppm for probes; 500 ppm for ISM
3.2.3 EPA Method 21 Section 4.4
3.2.4 calibrate beginning each day worked
3.3 monitoring procedures
3.3.1 landfill disposal area for TOC w/ FID
3.3.2 zero to three inches above grade
3.3.3 $\approx$50,000 ft^2 grid w/ emphasis on cracks, distressed vegetation, etc.
3.4 recording
3.4.1 TOC>500 ppm by grid on site map w/ topo and LFG system
3.4.2 maintain and report per (f)

4.0 LFG COLLECTION SYSTEM
4.1 monthly at header in
4.2 10 liter / 10 minute
4.3 lab TOC/TAC
4.4 chain of custody
4.5 recording
4.5.1 TOC/TAC on site map w/ topo and LFG system
4.5.2 maintain and report per (f)

5.0 AMBIENT AIR AT LF PROPERTY BOUNDARY

This monitoring has not been a part of the previous SCAQMD Rule 1150.1 alternative plan for Penrose Landfill and is proposed to remain a variant to the Rule unless exceedances (and/or violations) become a persistent, irreparable problem. In the five years since implementation of Rule 1150.1,

ISM and ISS have been non-detect or insignificant except for rare instances (which would have precluded detection by monthly ambient air sampling). ISM exceedances have been detected from perimeter subsidence cracks (particularly after the 1994 Northridge Earthquake) and downwind of extraction well drilling operations. ISS exceedances have been detected under post-Northridge Earthquake conditions, during excavation of a leaking pipe in the collection system, and also due to a leaking extraction well. If ISM and ISS exceedances become a regular irreparable condition, monthly ambient air sampling will be implemented.

Attachment B - SUPPORTING DOCUMENTS

EXISTING LANDFILL GAS PROBES

INTEGRATED SURFACE SAMPLING GRID MAP

MAPS FOR INSTANTANEOUS MONITORING

COLLECTION SYSTEM
(Note that Penrose LF is in post-closure construction and collection system piping is moved to accommodate the construction - thus this map is outdated due to frequent changes.)

EXISTING POWER PLANT

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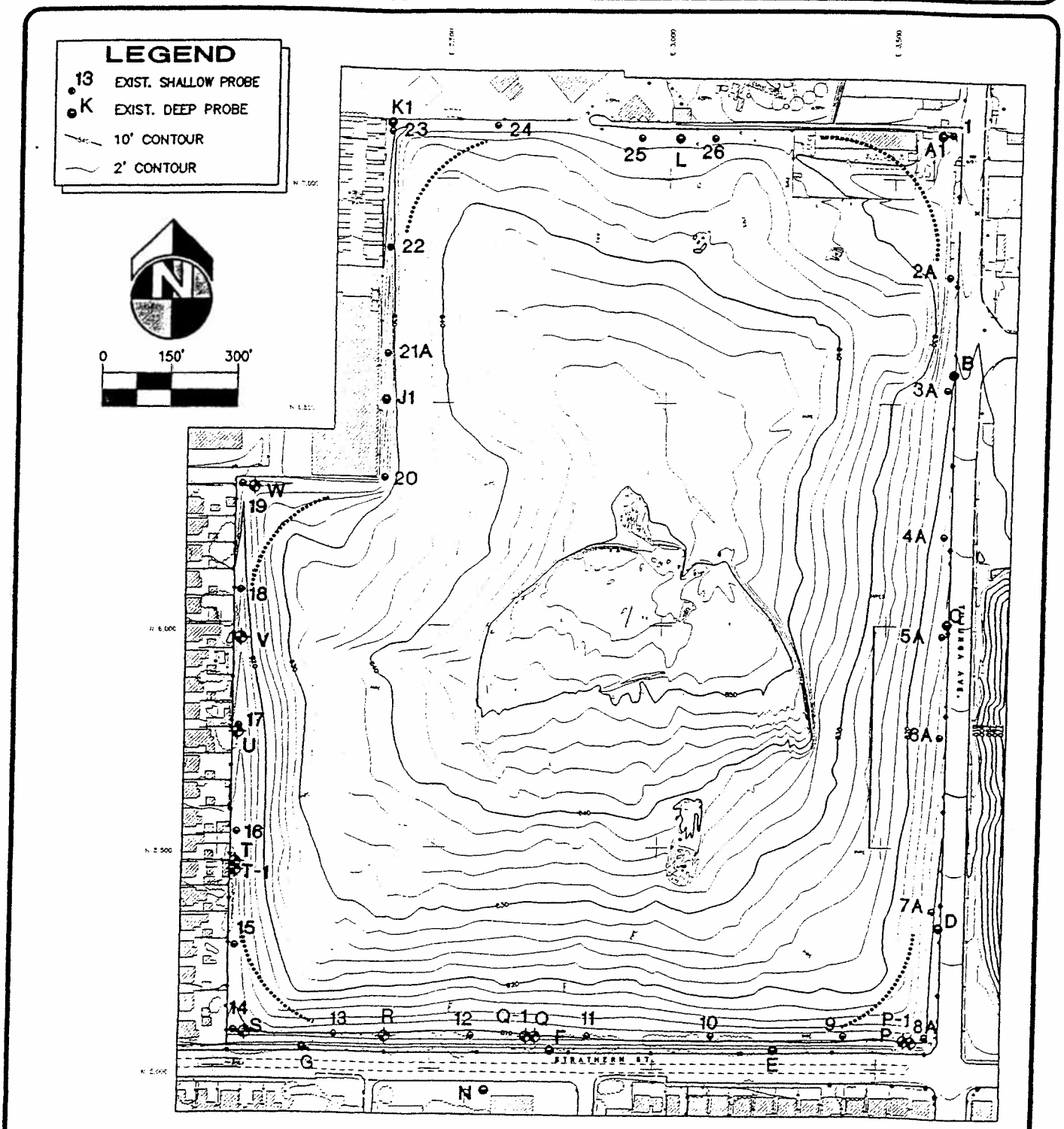
J152-6

PENROSE LANDFILL MONITORING PROBE LOCATIONS



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WASTE AND
GAS CONTROL
SPECIALISTS

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Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
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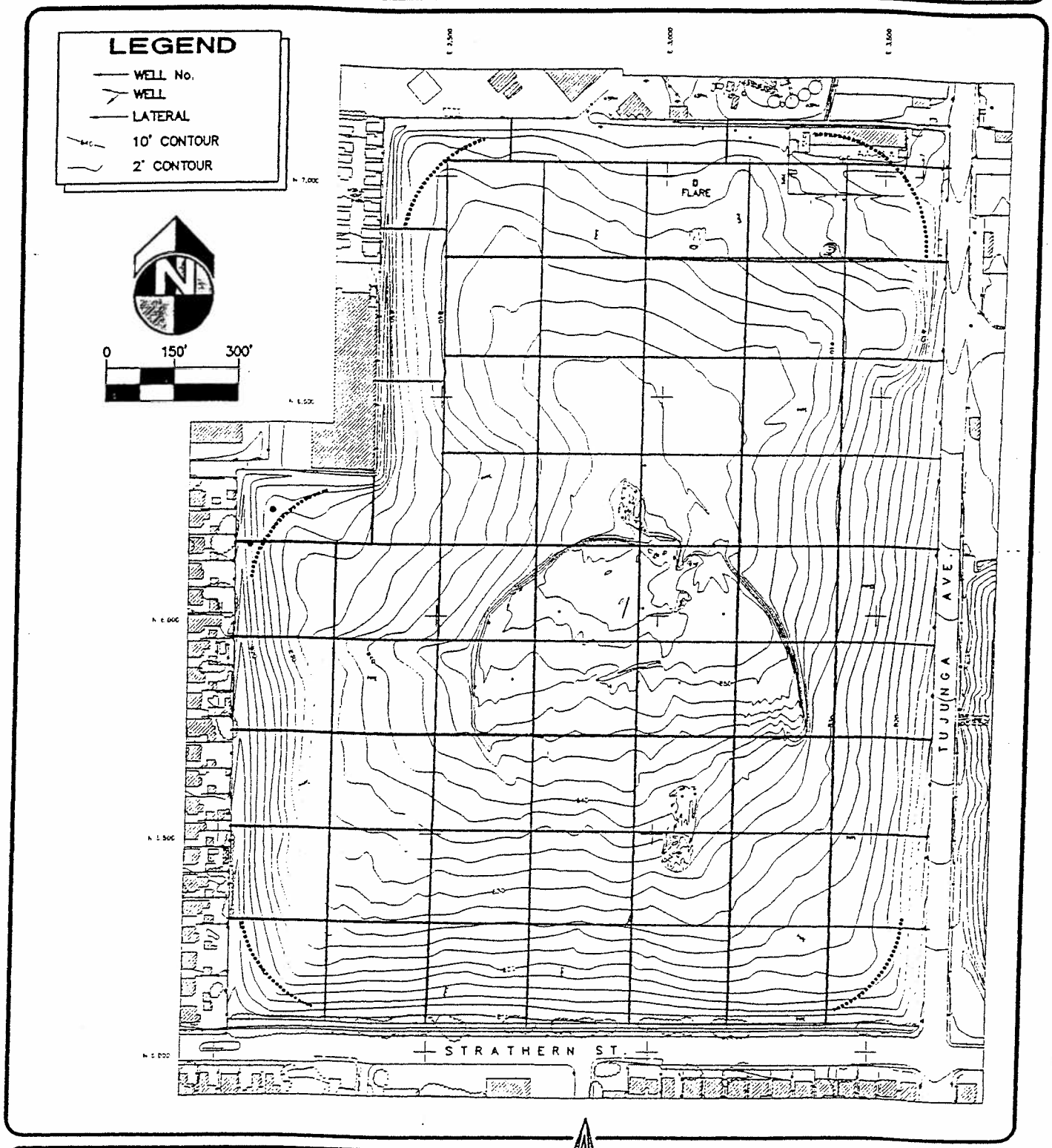
PENROSE LANDFILL
INTEGRATED SURFACE SAMPLING GRID



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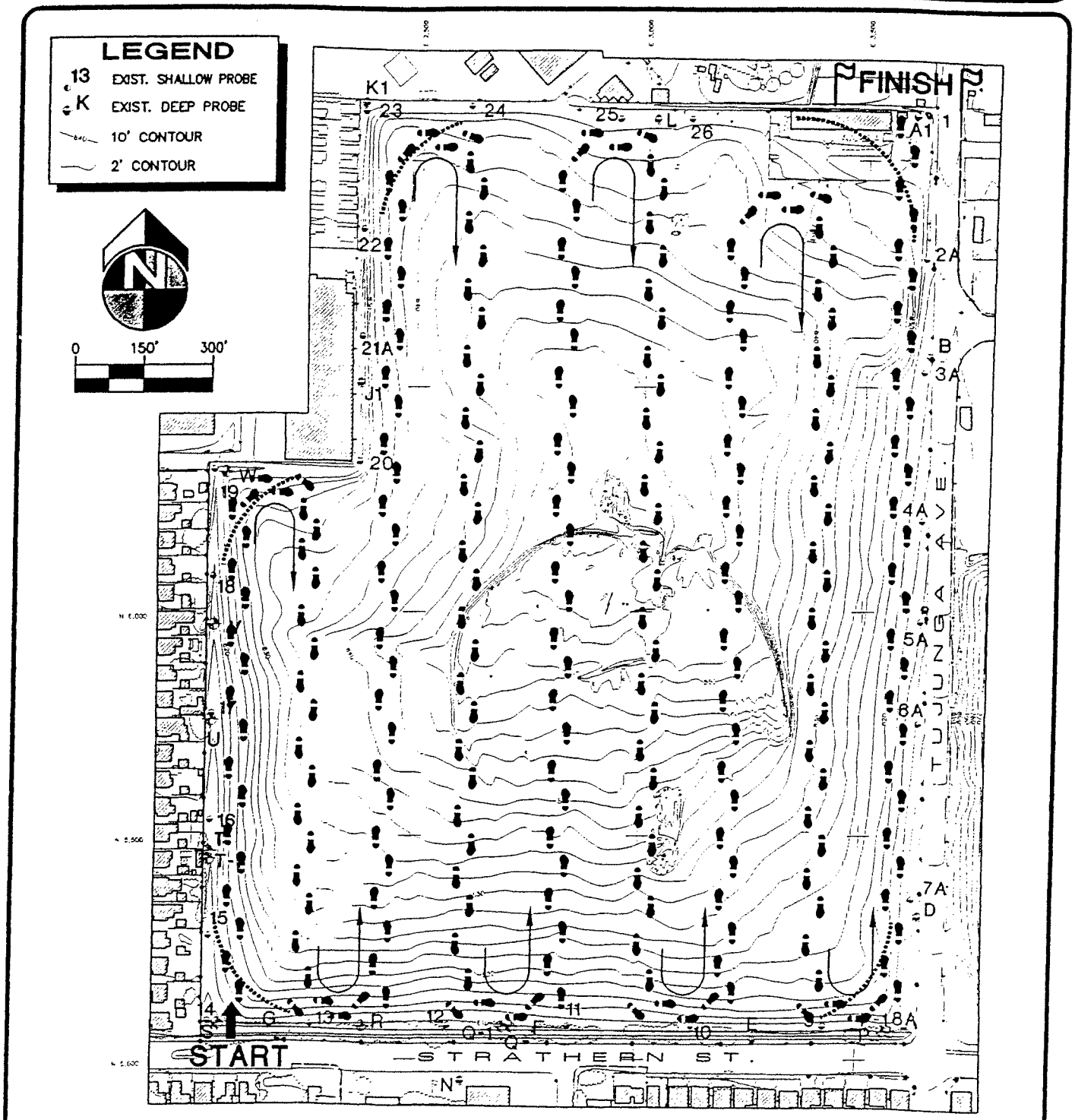
INSTANTANEOUS SURFACE MONITORING



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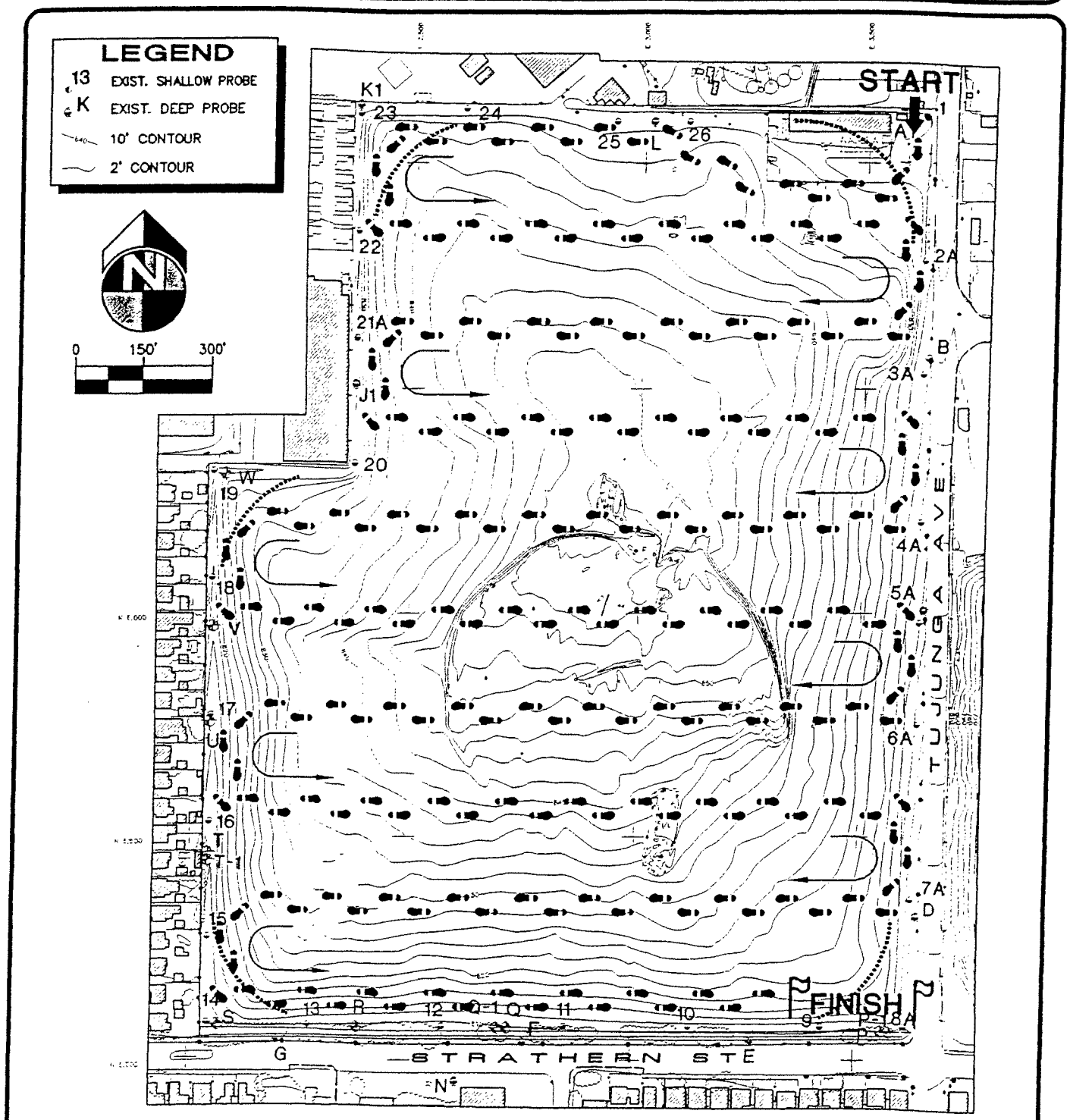
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



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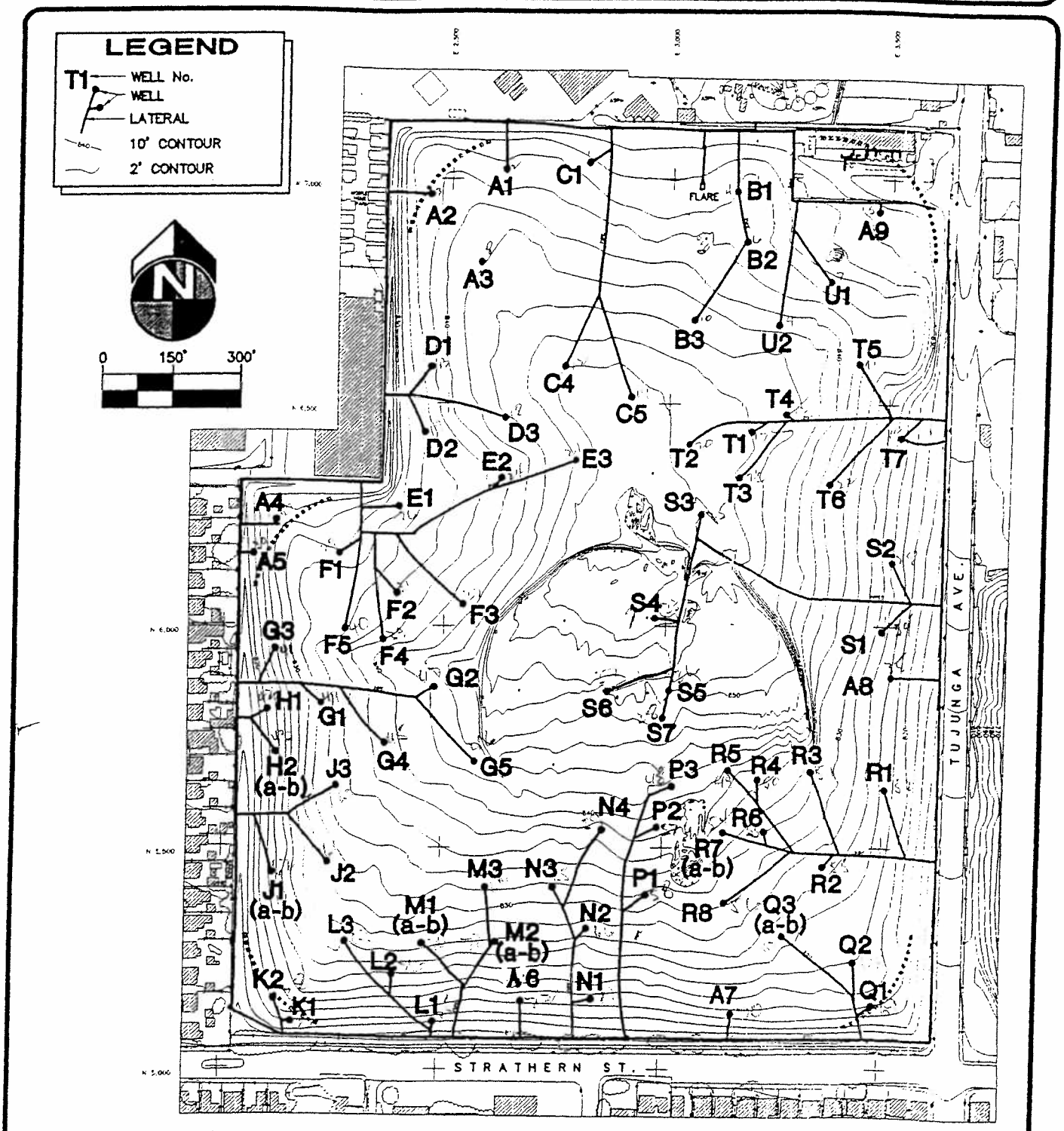
PENROSE LANDFILL
GAS COLLECTION SYSTEM



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10-15-96 WELL-SYS

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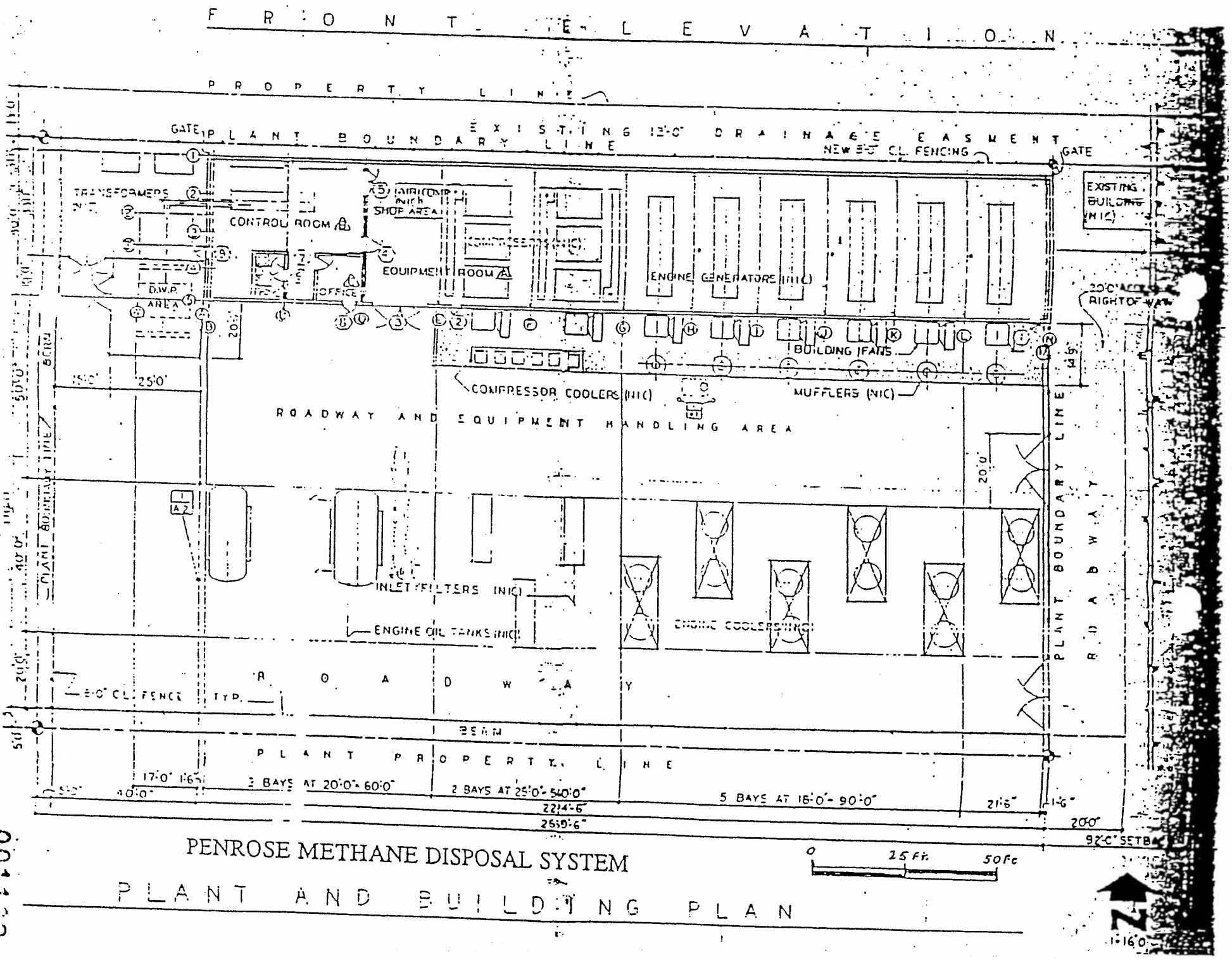

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Attachment C - EQUIPMENT CATALOG CUTS/SPECS

DAVIS INSTRUMENTS MODEL X14
HAND HELD WIND SPEED INDICATOR

FOXBORO PORTABLE ORGANIC VAPOR ANALYZER
MODEL OVA 128 (Flame Ionization Detector)

INTEGRATED SAMPLER

j152plan.602

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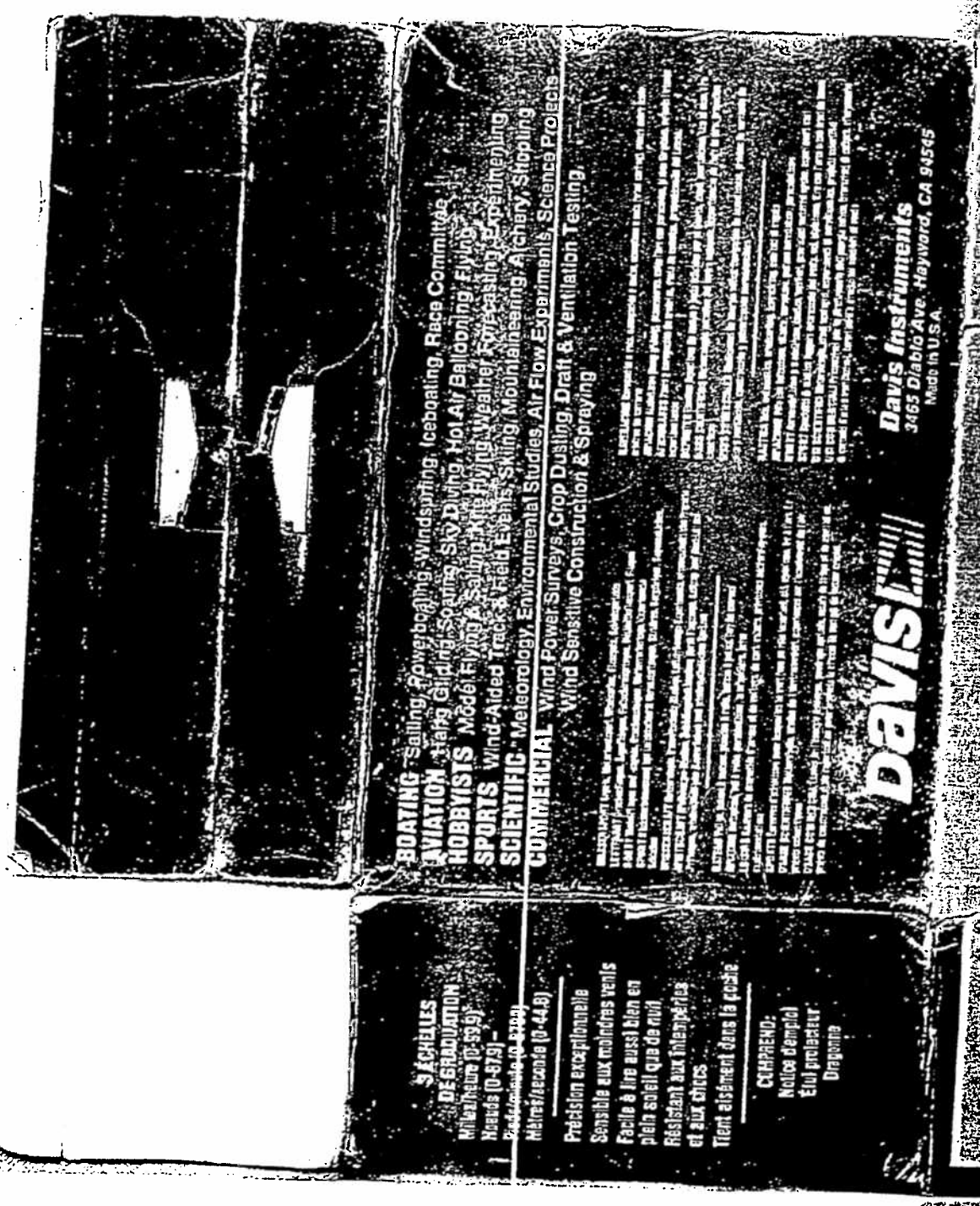
• DAVIS INSTRUMENTS MODEL X14
HANDHELD WIND SPEED INDICATOR



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3 RANGES

Miles Per Hour (0-99.9)
Knots (0-87.9) • Feet Per Minute (0-8790)
Meters Per Second (0-44.8)

Exceptional Accuracy
Responds to Lightest Winds
Weather & Shock Resistant

Easy to Read in Bright Sunlight or at Night
Pocket-Sized Convenience

INCLUDES Instruction Manual, Protective Case, Wrist Lanyard

3 BEREICHE
Meilen pro Stunde (0-99.9)
Knoten (0-87.9)–
Fuß pro Minute (0-8790)
Meter pro Sekunde (0-44.8)

Hervorragende Genauigkeit
Spricht auf den leichtesten Wind an
Einfach abzulesen in hellem Sonnenlicht oder bei Nacht
Wetter- und schockbeständig
Praktisches Taschenformat

EINSCHLIESSLICH:
Bedienungsanweisung
Schutztasche
Handschlaufe

Turbo Meter™

209163
271
DAVIS X 14

Turbo Meter

ELECTRONIC WIND SPEED INDICATOR

Windgeschwindigkeits-Anzeigegerät
Indicateur de vitesse du vent
Medidor de la velocidad del viento
Anemometro

Printed in Taiwan

3 GAMMES
Miles per hour (0-99.9)
Knots (0-87.9) – Pieds par minute (0-8790)
Mètres par seconde (0-44.8)

Facile à interpréter
Réagissant à les vitesses más leves
De facil lectura a la luz solar intensa o de noche
Resistente a los golpes y a las inclemencias climatéricas
Cómodo tamaño de bolsillo

EQUIPE: Manuel de instrucción, estuche protector, cuerda para muñeca

3 CAMPI DI MISURAZIONE
Miglia all'ora (0-99.9)
Nodi (0-87.9) – Piedi al minuto (0-8790)
Metri al secondo (0-44.8)

Precisione eccezionale
Sensibile a venti di minima intensità
Di facile lettura in pieno sole e di notte
Resistente agli elementi e all'urto
Pratico formato tascabile

COMPRENDE: Manuale d'istruzioni, custodia protettiva, cordoncino per polso

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GENERAL DESCRIPTION

The OVA 128 Analyzer is designed to detect and measure hazardous organic vapors and gases found in most industries. It has broad application since it has a chemically resistant sampling system and can be calibrated to almost all organic vapors. It can provide accurate indication of gas concentration in one of three ranges: 0 to 10 ppm; 0 to 100 ppm; or 0 to 1000 ppm. While designed as a lightweight portable instrument, it can be permanently installed to monitor a fixed point.

The instrument utilizes the principle of hydrogen flame ionization for detection and measurement of organic vapors. The instrument measures organic vapor concentration by producing a response to an unknown sample, which can be related to a gas of known composition to which the instrument has previously been calibrated. During normal survey mode operation, a continuous sample is drawn into the probe and transmitted to the detector chamber by an internal pumping system.

The sample stream is metered and passed through particle filters before reaching the detector chamber. Inside the detector chamber, the sample is exposed to a hydrogen flame which ionizes the organic vapors. When most organic vapors burn, they leave positively charged carbon-containing ions. An electric field drives the ions to a collecting electrode. As the positive ions are collected, a current corresponding to the collection rate is generated. This current is measured with a linear electrometer preamplifier which has an output signal proportional to the ionization current. A signal conditioning amplifier is used to amplify the signal from the preamp and to condition it for subsequent meter or external recorder display. The display is an integral part of the Probe/Readout Assembly and has 270° scale deflection.

In general, the hydrogen flame ionization detector is more sensitive for hydrocarbons than any other class of organic compounds. The response of the OVA varies from compound to compound, but gives repeatable results with all types of hydrocarbons; i.e., saturated hydrocarbons (alkanes), unsaturated hydrocarbons (alkenes and alkynes) and aromatic hydrocarbons.

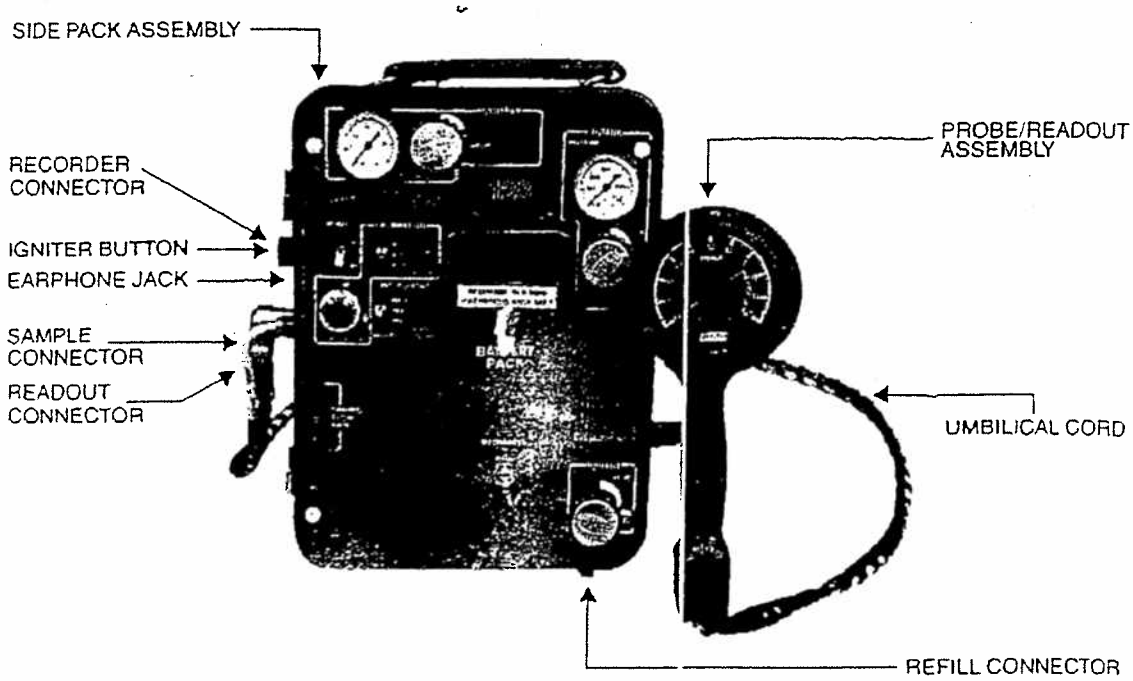

FIGURE 2
PORTABLE ORGANIC VAPOR ANALYZER
Model OVA 128

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Typical response of various hydrocarbons, relative to methane is as follows:*

Compound	Relative Response (percent)
Methane	100 (reference)
Hexane	70
Propane	64
N-butane	61
N-pentane	100
Ethylene	85
Acetylene	200
Benzene	150
Toluene	120
Ethane	90

Compounds containing oxygen, such as alcohols, ethers, aldehydes, carbolic acid and esters give a lower response than that observed for hydrocarbons. This is particularly noticeable with compounds having a high ratio of oxygen to carbon such as the lower members of each series which have one, two or three carbons. With compounds containing higher numbers of carbons, the effect is diminished to such an extent that the response is similar to that of the corresponding hydrocarbons.

Nitrogen-containing compounds (i.e., amines, amides, and nitriles) respond in a manner similar to that observed for oxygenated materials. Halogenated compounds also show a lower relative response as compared with hydrocarbons. Materials containing no hydrogen, such as carbon tetrachloride, give the lowest response; the presence of hydrogen in the compounds results in higher relative responses. Thus, $CHCl_3$ gives a much higher response than does CCl_4. As in the other cases, when the carbon to halogen ratio is 5:1 or greater, the response will be similar to that observed for simple hydrocarbons.

*NOTE: Each OVA detector will have slightly different responses for organic vapors relative to methane. The user should determine responses for his individual instrument. The typical response of various compounds relative to methane is as follows:

KETONES	
Acetone	60
Methyl ethyl ketone	80
Methyl isobutyl ketone	100
ALCOHOLS	
Methyl alcohol	15
Ethyl	25
Isopropyl	65
HALOGEN COMPOUNDS	
Carbon tetrachloride	10
Chloroform	65
Trichloroethylene	70
Vinyl chloride	35

The OVA has negligible response to carbon monoxide and carbon dioxide which, due to their structure, do not produce appreciable ions in the detector flame. Thus, other organic materials may be analyzed in the presence of CO and CO_2.

Applications

(1) Measurement of most toxic organic vapors present in industry for compliance with Occupational Safety and Health Administration (OSHA) requirements.

(2) Evaluation and monitoring applications in the air pollution field.

(3) Source identification and measurement for fugitive emissions (leaks) as defined by EPA.

(4) Forensic science applications.

(5) Controlling and monitoring atmospheres in manufacturing and packaging operations.

(6) Leak detection related to volatile fuel handling equipment.

(7) Monitoring the background level of organic vapors at hazardous waste sites.

(8) Quality control procedures geared to leak checking, pressurized system checks, combustion efficiency checks, etc.

Major Features

The basic instrument consists of two major assemblies, the Probe/Readout Assembly and the Side Pack Assembly (See Figure 2). The recorder is optional on all models, but is normally used with all instruments which incorporate the GC Option. The output meter and alarm level adjustments are incorporated in the Probe/Readout Assembly.

The Side Pack Assembly contains the remaining operating controls and indicators, electronic circuitry, detector chamber, hydrogen fuel supply, and electrical power supply.

Other major features are: linear scale readout, approximately two second response time and portable operating time of 8 hours for fuel supply and battery pack. A battery test feature allows charge condition to be read on the meter. Hydrogen flame-out is signified by an audible alarm plus a visual indication on the meter. The instrument contains a frequency modulated detection alarm which can be preset to sound at a desired concentration level. The frequency of the detection alarm varies as a function of detected level giving an audible indication of organic vapor concentration. An earphone is provided to allow the operator to hear the alarm in noisy areas or to avoid disturbing workers.

During use, the Side Pack Assembly can be carried by the operator on either his left or right side or as a back pack. The Probe/Readout Assembly can be detached from the Side Pack Assembly and disassembled for transport and storage.

Standard Accessories

A variety of sampling fixtures can be used. In addition, small diameter tubing can be used for remote sampling or electrically insulated flexible extensions can be used for places that are difficult to reach.

Telescoping Probe

Probe length can be increased or decreased over a 22 to 30 inch range to suit the individual user. A knurled locking nut is used to lock the probe at the desired length. The probe is attached to the Readout Assembly. When appropriate, the probe is replaced with a Close Area Sampler, which is supplied as a standard accessory.

Sampling Accessories

Part Number	Description
510125-1	Close area sampler - Connects directly to the readout assembly.
510035-1	Telescoping wand - Adjustable length -accommodates the probe listed below.
510126-1	Tubular area sampler - Used with the telescoping wand.

Particulate Filters

The primary filter of porous stainless steel is located behind the sample inlet connector (see Side Pack Assembly drawing). In addition, a replaceable porous metal filter is installed in the "close area" sampler.

Carrying Case

An instrument carrying case is provided to transport, ship and store the disassembled Probe/Readout Assembly, the Side Pack Assembly and other equipment.

Specifications

READOUT: 0 to 10, 0 to 100, 0 to 1000 ppm (linear)
SAMPLE FLOW RATE: 1 1/2 to 2 1/2 litre per minute at 22°C, 760 mm, using close area sampler
RESPONSE TIME: Approximately 2 seconds for 90% of final reading.
PRIMARY ELECTRICAL POWER: 12 volt (nominal) battery pack.
FUEL SUPPLY: Approximately 75 mL volume tank of pure hydrogen, maximum pressure 2400 psig, fillable in case.
HYDROGEN FLOW RATE: Factory set 12.5 ±0.5 mL/min (minus GC option) 11.0 ±0.5 mL/min (GC models)
PORTABLE OPERATING TIME: Minimum 8 hours with battery fully charged, hydrogen pressure at 1800 psig.
PHYSICAL DIMENSIONS: 9" x 12" x 5" (229 mm x 305 mm x 127 mm) Sidepack only.
WEIGHT: 12 pounds (5.5 kg) (sidepack and hand-held probe assembly)
DETECTION ALARM: Audible alarm plus meter indication. User preset to desired level.
FLAME-OUT ALARM: Audible alarm plus meter indication (needle drops off scale in negative direction).
BATTERY TEST: Battery charge condition indicated on readout meter. Upon activation of momentary contact switch, a meter reading above the indicator line means that there is 4 hours minimum service life remaining (at 22°C).
FILTERS: In-line sintered metal filters will remove particles larger than 10 microns.
OPERATING TEMPERATURE RANGE: 10°C to 40°C.
MINIMUM AMBIENT TEMPERATURE: 15°C for Flame Ignition (coldstart).
ACCURACY: Based on the use of a calibration gas for each range:

Calibration Temp. °C	Operating Temp. °C	Accuracy in % of Individual Full Scale x1	x10	x100
20 to 25	20 to 25	±20	±10	±10
20 to 25	10 to 40	±20	±20	±20

RELATIVE HUMIDITY: 5% to 95%, Effect on accuracy: ±20% of individual full scale
RECORDER OUTPUT: 0 to 5 volts
MINIMUM DETECTABLE LIMIT (METHANE): 0.2 ppm
STANDARD ACCESSORIES:

1. Instrument carrying and storage case
2. Hydrogen fuel filling hose assembly
3. Battery charger
4. Earphone
5. Various sampling fixtures
6. Maintenance tool kit
7. Operators manual (2 each)
8. Padded leather carrying straps

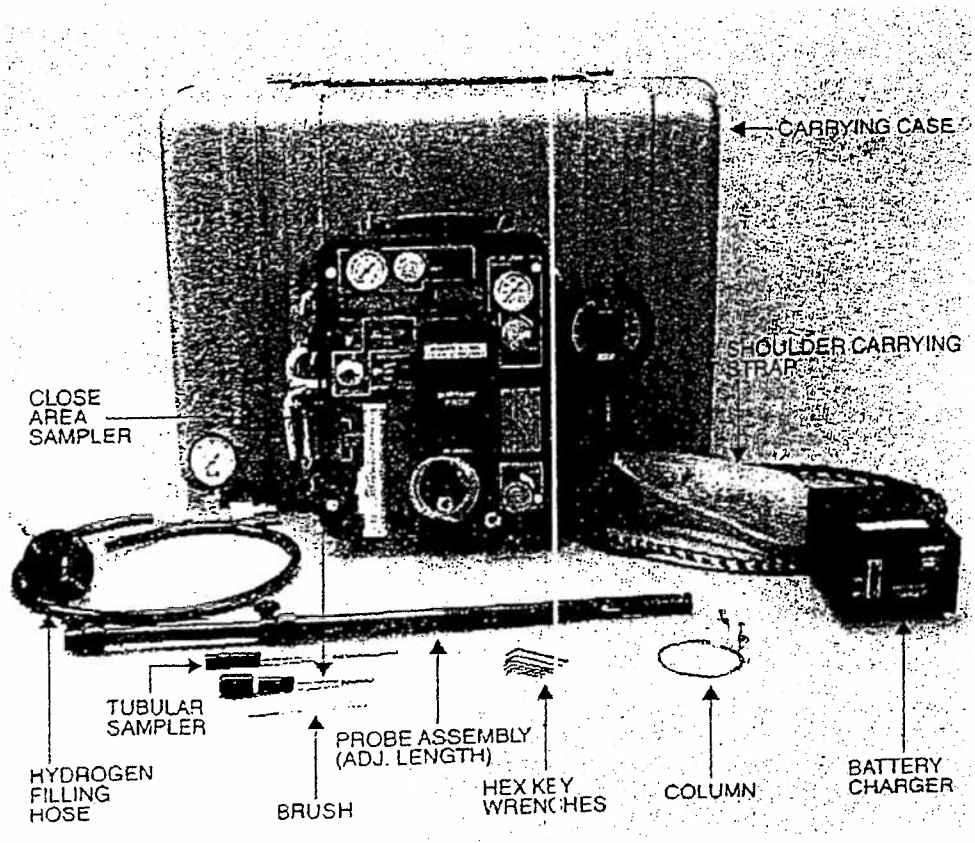
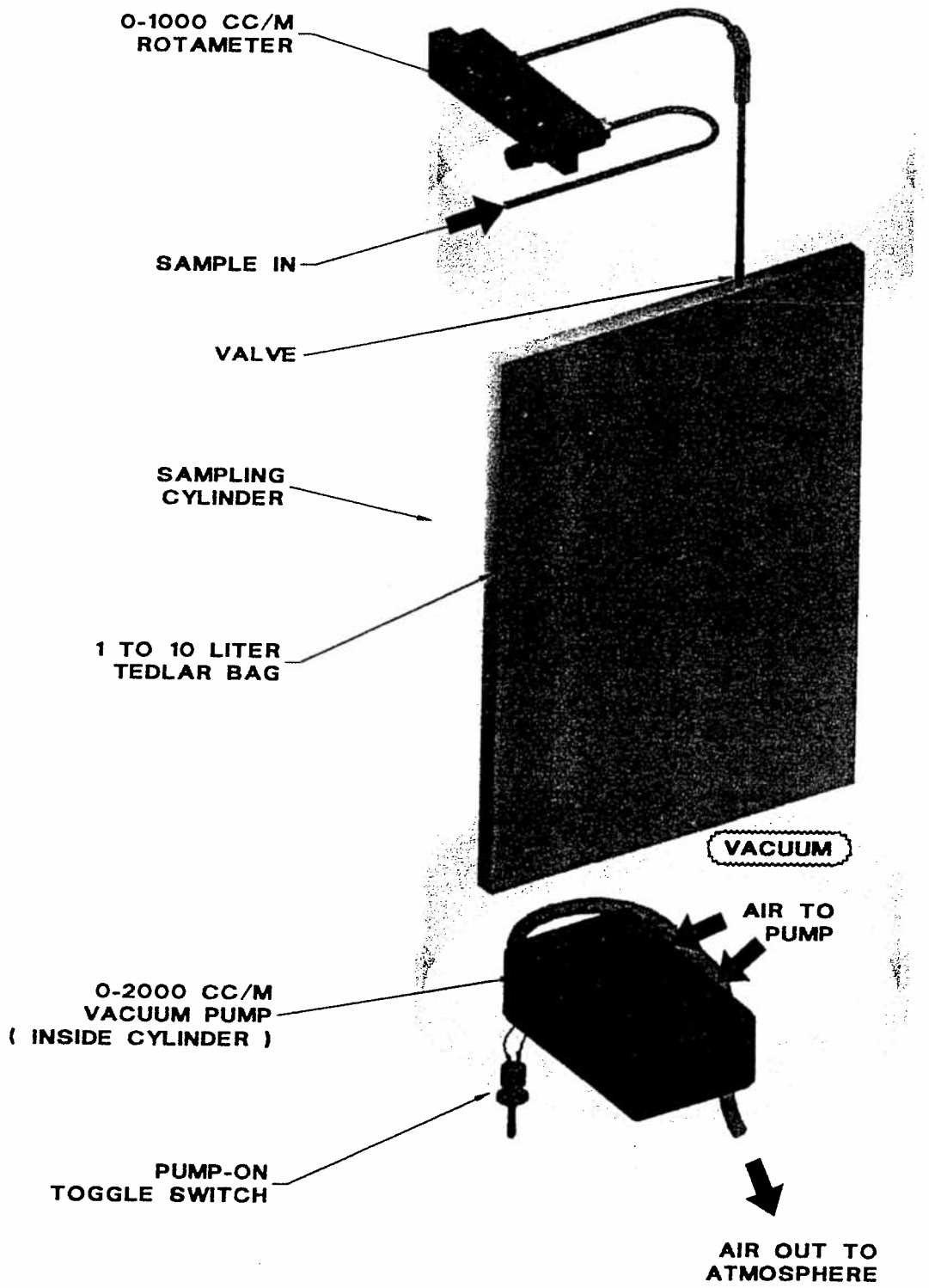


FIGURE 3
OVA-128 ANALYZER COMPONENTS
(Gas Chromatograph Model Shown)

INTEGRATED SAMPLER FOR AQMD 1150 MONITORING



SEPICH ASSOCIATES
METHANE SPECIALISTS
680 WALNUT STREET, MOORPARK, CA. 93021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIA

Attn: Ted / LARP
Sup (213) 237-4170

UNIVERSAL

MEMORANDUM

DATE	06/19/98
TO	John Sepich
FROM	Don Turner DPT
EXTENSION	7-2791
SUBJECT	Rule 1150.1 Compliance Plan - SCAQMD Alert and Application Form
COPIES	

John - per our recent discussions, attached is an alert that we received at Universal City on June 18, 1998. Part of the alert was the application form, which we will need to complete as part of the Compliance Plan work that we want you to assist us with.

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AQMD
South Coast Air Quality Management District
P. O. BOX 4944
Diamond Bar, CA 91765
(909) 396- 2000

APPLICATION FOR PLANS
FORM 400 - P

Section I - Company Information

LEGAL NAME OF APPLICANT ☐ IRS OR ☐ S.S.NUMBER

PERMIT TO BE ISSUED TO (SEE INSTRUCTIONS)

BUSINESS MAILING ADDRESS

Section II - Facility Information

EQUIPMENT ADDRESS/LOCATION

NUMBER/STREET

CITY OR COMMUNITY CA ZIP CODE

FACILITY NAME

FACILITY ID NUMBER

NAME OF CONTACT PERSON | TITLE | CONTACT TELEPHONE NUMBER ( ) -

TYPE OF BUSINESS AT THIS FACILITY | BUSINESS TYPE CODE (SEE INSTRUCTIONS)

Section III - Equipment Information

APPLICATION HEREBY SUBMITTED FOR:

RULE NUMBER WHICH THIS APPLICATION APPLIES TO:

TYPE OF PLAN APPLICATION: ☐ Compliance Plan ☐ Excavation Plan ☐ Other ☐ Alternative Emission Control Plan (AECP) ☐ Extreme Performance Coating Classification

IF THIS APPLICATION IS ASSOCIATED WITH CERTAIN DISTRICT APPLICATIONS(S)/PERMIT(S), ENTER APPLICATION/PERMIT NUMBER(S):

FOR THIS PROJECT HAS A CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) DOCUMENT BEEN REQUIRED BY ANOTHER GOVERNMENTAL AGENCY? ☐ No ☐ Yes, IF YES, ENTER NAME OF AGENCY AND SUBMIT A COPY IF APPROVED.

DO YOU CLAIM CONFIDENTIALITY OF DATA? (SEE INSTRUCTIONS) ☐ Yes ☐ No

OPERATING SCHEDULE

	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR
MAXIMUM			
AVERAGE			

FOR AECP PLEASE FILL IN THE TABLE BELOW:

	LBS/YEAR	DAYS/YEAR
ACTUAL USAGE TWO YEARS AGO		
ACTUAL USAGE LAST YEAR		
PROPOSED AVERAGE USE		

Section IV - Signature

I HEREBY CERTIFY THAT ALL INFORMATION CONTAINED HEREIN AND INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND CORRECT.

SIGNATURE OF RESPONSIBLE OFFICIAL OF FIRM: TITLE OF RESPONSIBLE OFFICIAL OF FIRM:

TYPE OR PRINT NAME OF RESPONSIBLE OFFICIAL OF FIRM: | RESPONSIBLE OFFICIAL'S TELEPHONE NUMBER ( ) - | DATE SIGNED: / /

I HEREBY CERTIFY THAT ALL INFORMATION CONTAINED HEREIN AND INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND CORRECT.

SIGNATURE OF PREPARER: TITLE OF PREPARER:

TYPE OR PRINT NAME OF PREPARER: | PREPARER'S TELEPHONE NUMBER ( ) - | DATE SIGNED: / /

AQMD USE ONLY	APPLICATION/TRACKING #	PROJECT #	TYPE B C D	EQUIPMENT CATEGORY CODE: /	FEE SCHEDULE: $	VALIDATION

ENG. A R DATE	ENG. A R DATE	CLASS I III IV	ASSIGNMENT	ENF. SECT.	CHECK/MONEY ORDER #	AMOUNT $

FORM 400-E-P, Rev. 10/97

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CO

Post-it™ brand fax transmittal memo 7671	# of pages ▸ 2
To Robert McAllister	From Alex Feucht
Co. LAPBCo	Co.
Dept.	Phone # 818 5009322
Fax # 2132334170	Fax # "

May 29, 1993

Mr. Ted Kowalczyk
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765-4182

Subject: Los Angeles By-Products, Penrose Landfill AQMD Rule 1150.1 Phase II Compliance Plan

This letter is in response to AQMD's February 10, 1993 approval of Los Angeles By-Products' 1986 Phase II Rule 1150.1 Compliance Plan.

A. EXCEPTIONS

Exceptions to AQMD's 2-10-93 approval conditions are listed below:

1.0 GENERAL:

- Pacific Energy operates the landfill gas control system, under a contract with the owner, Los Angeles By-Products.
- No wind speed monitor/recorder is installed at the site.

2.0 LANDFILL GAS SAMPLES FROM PERIMETER PROBES:

- Perimeter probes were constructed prior to the AQMD 1150.1 guidelines, and are shown as built in Enclosure 3. Probes do not meet AQMD spacing and depth requirements.

3.0 INTEGRATED LANDFILL SURFACE SAMPLING:

- No integrated landfill surface sampling is performed unless instantaneous landfill surface monitoring, item 4.0 below, shows positive and is not repairable.

4.0 INSTANTANEOUS LANDFILL SURFACE MONITORING:

- NO EXCEPTIONS. Instantaneous monitoring is considered the key to emissions control at the site, and is performed using the paths prescribed in Enclosure 4.

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5.0 AMBIENT AIR SAMPLES AT LANDFILL PERIMETER:

- No ambient air sampling is performed unless instantaneous monitoring, item 4.0 above, is positive and not repairable.

6.0 LANDFILL GAS SAMPLES FROM GAS COLLECTION SYSTEM:

- Raw LFG analyses are done by Pacific Energy, and reported to the AQMD under a separate AQMD permit.

7.0 LANDFILL GAS COLLECTION AND DISPOSAL SYSTEMS:

- Operation and maintenance of the gas system, and annual source testing, are done by Pacific Energy, and reported to the AQMD under a separate AQMD permit.

8.0 REPORTING OF RESULTS:

- NO EXCEPTIONS. Portions of reporting will be done directly by Pacific Energy, or using Pacific Energy data.

B. COMPLIANCE SCHEDULE

PHASE 1: FIRST THREE MONTHS

- Continue to perform instantaneous surface monitoring for three consecutive months to obtain instantaneous surface emissions baseline data per Rule 1150.1 guidelines.
- Continue to monitor all probes for three consecutive months to obtain baseline data using Rule 1150.1 monitoring guidelines (monitoring by Smith-Emery).
- No ambient air or instantaneous surface monitoring at this time (based upon no surface emissions).
- Continue LFG collection system sampling (Pacific Energy).
- Continue LFG disposal system sampling (Pacific Energy).
- Begin submitting monthly reports to AQMD.
- After three months, review baseline data and recommend variation of Phase II if necessary.

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SEPICH ASSOCIATES, Inc.
and METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

TEL (818) 707-3036
(805) 552-0000
FAX (818) 707-3012
(805) 552-0001

RECEIVED
MAY 14 1998
L.A. BY-PROD. CO.

TRANSMITTAL

TO: MIKE McALLISTER
L. A. BY-PRO

DATE: 5/12/98
SUBJECT:

ATTN:
213/233-4175

JOB No. J152-6
FAX 213/233-4170

(X) herewith ( ) under separate cover ( ) via MAIL

( ) for your information ( ) for your review and comments

( ) per your request ( ) other

No. of pages 18
(including transmittal)

Enclosed 40 CFR, Part 60,
Subpart WWW (NSPS)
Rule 1150.5 - amended 4/10/98

C.C.

BY: C. Sechter

CIVIL ENGINEERS / SANITARY, ENVIRONMENTAL, WASTE AND GAS CONTROL

001121

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(Adopted April 5, 1985)(Amended April 10, 1998)

RULE 1150.1. CONTROL OF GASEOUS EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS

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(b) Applicability
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(h) Inactive Landfill Requirements
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(j) Test Methods
(k) Exemptions
(l) Loss of Exemption

Attachment A

1.0 Subsurface Refuse Boundary Sampling Probes
2.0 Integrated Landfill Surface Sampling
3.0 Instantaneous Landfill Surface Monitoring
4.0 Landfill Gas Sample From Gas Collection System
5.0 Ambient Air Samples At The Landfill Property Boundary
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Figure 2 Typical Landfill Walk Pattern
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Table 1 Carcinogenic and Toxic Air Contaminants (Core Group)
Table 2 Carcinogenic and Toxic Air Contaminants (Supplemental Group)

The reference numbers in the left hand margin of the rule refer to sections of 40 CFR, Part 60, Subpart WWW (NSPS)

(Adopted April 5, 1985)(Amended April 10, 1998)

RULE 1150.1. CONTROL OF GASEOUS EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS

(a) Purpose

The rule is intended to limit Municipal Solid Waste (MSW) landfill emissions to prevent public nuisance and possible detriment to public health caused by exposure to such emissions.

(b) Applicability

This rule applies to each active and inactive MSW landfill.

(c) Definitions

Terms used but not defined in this rule have the meaning given them in 40 CFR, Part 60, Section 60.751 (Definitions):

(1) ADMINISTRATOR means the Executive Officer of the South Coast Air Quality Management District (District).

(2) ACTIVE LANDFILL means an MSW landfill that has received waste on or after November 8, 1987.

(3) BACKGROUND means the local ambient concentration of total organic compounds (TOC) measured as methane determined by holding the instrument probe approximately 5 to 6 feet above the landfill surface.

(4) CLOSED LANDFILL means a disposal facility that has ceased accepting waste and was closed in accordance with all applicable federal, state and local statutes, regulations, and ordinances in effect at the time of closure.

(5) INACTIVE LANDFILL means an MSW landfill where solid waste had been disposed of before November 8, 1987 and no more subsequent solid waste disposal activity has been conducted within the disposal facility.

(6) MSW LANDFILL means an entire disposal facility in a contiguous geographical space where solid waste is placed in or on land. An MSW landfill may be either active or inactive.

(7) OPERATOR means the person:

(A) Operating the MSW landfill, or

(B) Operating the MSW landfill gas collection or control system.

(8) OWNER means the person holding Title to the property.

(9) PERIMETER means the outer boundary of the entire waste disposal property.

(10) PROFESSIONAL ENGINEER means an engineer holding a valid certificate issued by the State of California Board of Registration for Professional Engineers and Land Surveyors or a state offering reciprocity with California.

(11) TOXIC AIR CONTAMINANT (TAC) means an air contaminant which has been identified as a hazardous air pollutant pursuant to Section 7412 of Title 42 of the United States Code; or has been identified as a TAC by the Air Resources Board pursuant to Health and Safety Code Section 39655 through 39662, or which may cause or contribute to an increase in mortality or an increase in serious illness, or potential hazard to human health.

(d) Active Landfill Design and Operation Requirements

The MSW landfill owner or operator shall comply with the provisions of paragraphs (d)(1) through (d)(9):

752(b)(2)(i)
752(b)(2)(i)(D)

(1) If a valid Permit to Construct or Permit to Operate for the collection and control system that meets the requirements of subparagraphs (d)(1)(A) through (d)(1)(C) has not been issued by the District by the adoption date of this rule, submit a site-specific collection and control system design plan. The design plan shall be prepared by a Professional Engineer and sent to the Executive Officer with applications for Permits to Construct or Permits to Operate no later than one year after the adoption of this rule. The Executive Officer shall review the collection and control system design and either approve it, disapprove it, or request that additional information be submitted.

752(b)(2)(ii)(A)(*1*), (*3*), (*4*)
755(a)(1)
758(b)(1)(i)

(A) The collection and control system shall be designed to handle the maximum expected gas flow rate from the entire area of the landfill that requires control, to minimize migration of subsurface gas to comply with paragraph (d)(4), and to collect gas at an extraction rate to comply with paragraphs (d)(5) and (d)(6). For the purposes of calculating the maximum expected gas generation flow rate from the landfill, one of the equations in 40 CFR, Part 60, Section 60.755(a)(1) shall be used. Another method may be used to

determine the maximum gas generation flow rate, if the method has been approved by the Executive Officer.

(B) If a valid Permit to Construct or Permit to Operate has not been issued by the District for the collection and control system, the collection and control system design plan shall either conform with specifications for active collection systems in 40 CFR, Part 60, Section 60.759 or include a demonstration to the Executive Officer's satisfaction of the sufficiency of the alternative provisions describing the design and operation of the collection system, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. Alternatives to this rule shall be submitted as specified in subdivision (i).

752(b)(2)(i)(C)
756(e)

(C) The design plan shall provide for the control of collected MSW landfill emissions through the use of a collection and control system meeting the applicable requirements in clauses (d)(1)(C)(i) and (d)(1)(C)(ii):

752(b)(2)(iii)

(i) Route all the collected gas to a control system designed and operated to either reduce NMOC by at least 98 percent by weight or reduce the outlet NMOC concentration to less than 20 parts per million by volume (ppmv), dry basis as hexane at 3 percent oxygen. The required reduction efficiency or ppmv shall be established by an initial source test, required under 40 CFR, Part 60, Section 60.8 and annually thereafter using the test methods specified in paragraph (j)(1). The annual source test shall be conducted no later than 45 days after the anniversary date of the initial source test.

(I) If a boiler or process heater is used as the control device, the landfill gas stream shall be introduced into the flame zone. Where the landfill gas is the primary fuel for the boiler or process heater, introduction of the landfill gas stream into the flame zone is not required.

(II) The control device shall be operated within the operating parameter ranges established during the initial or most recent compliant source test. The

operating parameters to be monitored are specified under paragraph (e)(6).

(ii) Route the collected gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of clause (d)(1)(C)(i).

(2) Install and operate the collection and control system no later than 18 months after the submittal of the design plan.

752(b)(2)(ii)

(3) If the District has not issued prior written approval for subsurface refuse boundary sampling probes, design and install subsurface refuse boundary sampling probes as specified in Section 1.1, Attachment A, to determine whether landfill gas migration exists. Installation of the refuse boundary probes shall be no later than 18 months after the submittal of the collection and control design plan as specified in paragraph (d)(1).

(4) Operate the collection system to prevent the concentration of TOC measured as methane from exceeding five percent by volume in the subsurface refuse boundary sampling probes constructed for the purposes of detecting lateral migration of landfill gas away from the waste mass, as determined from collected samples.

(5) Operate the collection system to prevent the concentration of TOC measured as methane from exceeding 50 ppmv as determined by integrated samples taken on numbered 50,000 square foot landfill grids.

(6) Operate the collection system to prevent the concentration of TOC measured as methane from exceeding 500 ppmv above background as determined by instantaneous monitoring at any location on the landfill, except at the outlet of any control device.

753(d)

(7) Operate the control or treatment system at all times when the collected gas is routed to the system. In the event the collection, treatment or control system is inoperable, the gas conveying system shall be shut down and all valves in the collection, treatment and control system contributing to venting of the gas to the atmosphere shall be closed no later than one hour after such breakdown or no later than one hour after the time the owner or operator knew or reasonably should have known of its occurrence.

753(e)

(8) Operate the collection, treatment and control system until all the exemption criteria under subdivision (k) has been met and the reports specified in subparagraph (f)(2)(D) have been submitted to the Executive Officer.

752(b)(2)(V)

(9) Design, install and operate a wind speed and direction monitoring system with a continuous recorder of the requirements in subparagraphs (d)(9)(A) and (d)(9)(B), at a site which is representative of the wind speed and direction in the areas being sampled. The wind velocity shall be recorded throughout the sampling period. The wind direction transmitter shall be oriented to true north using a compass. The monitor shall be installed according to the criteria set forth in 40 CFR, Part 50.

(A) For wind speed use a 3 cup assembly, with a range of 0 to 50 miles per hour, with a threshold of 0.75 mile per hour or less.

(B) For wind direction use a vane, with a range of 0 to 540 degrees azimuth, with a threshold of plus-minus 2 degrees.

(e) Active Landfill Sampling and Monitoring Requirements

The MSW landfill owner or operator shall comply with the provisions of paragraphs (e)(1) through (e)(6), after installation of the landfill gas control system:

(1) Monitor and collect samples for analysis as specified in Section 1.0, Attachment A, to determine the concentrations of TOC and TAC each month from the subsurface refuse boundary sampling probes, to assure continued compliance. Any measurement of 5 percent TOC by volume or greater shall be recorded as an exceedance and the actions specified in subparagraphs (e)(1)(A) through (e)(1)(C) shall be taken.

(A) The probe shall be identified and the location recorded as specified in Section 1.6, Attachment A.

(B) Adjustments to the vacuum of adjacent wells to increase the gas collection in the vicinity of the probe with the exceedance shall be made and the probe resampled no later than 10 calendar days after detecting the exceedance.

(C) If the resampling of the probe shows a second exceedance, additional corrective action shall be taken and the probe shall be resampled again no later than 10 calendar days after the second exceedance. If the resampling shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

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(2) Collect monthly integrated samples for analysis as specified in Section 2.0, Attachment A, to determine the concentrations of TOC and TAC from the landfill surface, to assure continued compliance. Any reading of 50 ppmv or greater shall be recorded as an exceedance and the actions specified in subparagraphs (e)(2)(A) through (e)(2)(C) shall be taken.

(A) The grid shall be identified and the location recorded as specified in Section 2.8, Attachment A.

(B) Cover maintenance or adjustments to the vacuum of adjacent wells to increase the gas collection in the vicinity of the grid with the exceedance shall be made and the grid resampled no later than 10 calendar days after detecting the exceedance. If measurable precipitation occurs within the 10 calendar days, all resampling and analysis shall comply with Section 2.2.2, Attachment A.

(C) If the resampling of the grid shows a second exceedance, additional corrective action shall be taken and the grid shall be resampled again no later than 10 calendar days after the second exceedance. If the resampling shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

(3) Monitor instantaneously as specified in Section 3.0, Attachment A, to determine the concentration of TOC each calendar quarter, to assure continued compliance. Any reading of 500 ppmv TOC or greater shall be recorded as an exceedance and the actions specified in subparagraphs (e)(3)(A) through (e)(3)(C) shall be taken. Any closed landfill that has no monitored exceedances of the 500 ppmv standard in three consecutive quarterly monitoring periods may monitor annually. Any reading of 500 ppmv TOC or more above background detected during the annual monitoring or compliance inspections shall result in a return to quarterly monitoring for that landfill.

755(c)
756(f)

(A) The location of each monitored exceedance shall be marked on the landfill or identified by using a global positioning system and the location recorded as specified in Section 3.4, Attachment A.

(B) Cover maintenance or adjustments to the vacuum of adjacent wells to increase the gas collection in the vicinity of each exceedance

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shall be made and the location shall be remonitored no later than 10 calendar days after detecting the exceedance.

(C) If the remonitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be remonitored again no later than 10 days after the second exceedance. If the remonitoring shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

(4) Collect a monthly landfill gas sample for analysis as specified in Section 4.0, Attachment A, to determine the concentrations of TOC and TAC from the main gas collection header line entering the gas treatment and/or gas control systems.

(5) Collect monthly ambient air samples for analysis as specified in Section 5.0, Attachment A, to determine the concentrations of TOC and TAC from the landfill property boundary.

(6) Monitor the collection and control system equipment specified under subparagraphs (e)(6)(A) and (e)(6)(B) in order to comply with subparagraph (d)(1)(C).

(A) For an enclosed combustor install, calibrate, maintain, and operate according to the manufacturer's specifications, the following equipment:

756(b)

(i) A temperature monitoring device equipped with a continuous recorder and having an accuracy of plus-minus 1 percent of the temperature being measured expressed in degrees Celsius or Fahrenheit. A temperature monitoring device is not required for boilers or process heaters with design heat input capacity greater than 44 megawatts.

(ii) At least one gas flow rate measuring device that shall record the flow to the control device(s) at least every 15 minutes.

(B) For a device other than an enclosed combustor, demonstrate compliance with subparagraph (d)(1)(C) by providing information satisfactory to the Executive Officer describing the operation of the control device, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. Alternatives

756(d)

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6

DATE 05/28/97

REMARKS CONTINUED: sunlight. ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min.

ISS #10 was collected at 9:51 AM with results of tests for OVA (ND) and H_2S (ND). ISS #9 was collected at 10:10 AM with results of tests for OVA (ND) and H_2S (ND). PPS #8 was collected at 10:30 AM. with results of tests for TOC (ND) and H_2S (ND). TSI was collected at 11:00 AM with results of tests for TOC (44%) and H_2S (110 ppm).

Robert Maddison
INSPECTOR

PRINCIPAL

001116

SHEET__OF__

ISA0075 4/15/94

[illegible] → [illegible] for the ATAC

CONFIDENTI

1150.1-5 → Anything over 5 ⅔ TAC [illegible]
[illegible] 0 days retested on 3rd detection
it is a VIOLATION -

1150.1-6 → ESS, any reading of [illegible] is recorded. - If no
detections of 500 [illegible] then we may test anomally.

to this rule shall be submitted as specified in subdivision (i). The Executive Officer may specify additional appropriate monitoring procedures.

(f) Active Landfill Recordkeeping and Reporting Requirements

The MSW landfill owner or operator shall keep all records up-to-date, readily accessible and maintained for at least a period of 5 years and made available to District staff upon request. Records older than 2 years may be maintained off-site, if they are retrievable no later than 4 hours after request .

758(a)

(1) The records required in subparagraphs (f)(1)(A) through (f)(1)(H) shall be maintained at the facility.

758(b)

(A) For the life of the control equipment as measured during the initial source test or compliance determination:

(i) The control device vendor specifications.

(ii) The maximum expected gas generation flow rate as calculated in subparagraph (d)(1)(A).

(iii) When seeking to demonstrate compliance with subparagraph (d)(1)(C) through the use of an enclosed combustion device other than a boiler or process heater with a design heat input capacity greater than 44 megawatts:

(I) The average combustion temperature measured at least every 15 minutes and averaged over the same time period of the source test.

(II) The reduction of NMOC determined as specified in clause (d)(1)(C)(i) achieved by the control device.

(iv) When seeking to demonstrate compliance with subclause (d)(1)(C)(i)(I) through the use of a boiler or process heater of any size: a description of the location at which the collected gas vent stream is introduced into the boiler or process heater over the same time period of the source testing.

(B) The data required to be recorded under Section 1.6, Attachment A, for subsurface refuse boundary sampling probes and all remedial actions taken for exceedances of the 5 percent TOC standard required in paragraph (d)(4).

(C) The data required to be recorded under Section 2.8, Attachment A, for integrated samples and all remedial actions taken for exceedances of the 50 ppmv TOC standard required in paragraph (d)(5).

(D) The data required to be recorded under Section 3.4, Attachment A, for instantaneous monitoring and all remedial actions taken for exceedances of the 500 ppmv TOC standard required in paragraph (d)(6).

758(e)

(E) The data required to be recorded under Section 4.5, Attachment A, for landfill gas samples collected from the main gas collection header line entering the gas treatment and/or gas control systems.

(F) The data required to be recorded under Section 5.7, Attachment A, from ambient air collected at the landfill property boundary.

(G) A description and the duration of all periods when the collection, treatment or control device was not operating for a period exceeding one hour and the length of time the system was not operating.

757(f)(3)

(H) Continuous records of the equipment operating parameters specified to be monitored under paragraph (e)(6) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded.

758(c)

(i) The following constitute exceedances that shall be recorded:

(I) For enclosed combustors except for boilers and process heaters with design heat input capacity of 44 megawatts (150 million British thermal unit per hour) or greater, all 3-hour periods of operation during which the average combustion temperature was more than 28° C (82° F) below the average combustion temperature during the most recent source test at which compliance with subparagraph (d)(1)(C) was determined.

(II) For boilers or process heaters, whenever there is a change in the location at which the vent stream is introduced into the flame zone as required under clause (f)(1)(A)(iv).

(ii) Records of the indication of flow to the control device specified under paragraph (e)(6)(A)(ii).

(iii) Each owner or operator who uses a boiler or process heater with a design heat input capacity of 44 megawatts or greater to comply with subparagraph (d)(1)(C) shall keep records of all periods of operation of the boiler or process heater. (Examples of such records could include records of steam use, fuel use, or monitoring data collected pursuant to other State, local, Tribal, or Federal regulatory requirements.)

(2) The reports required in subparagraphs (f)(2)(A) through (f)(2)(D) shall be submitted to the Executive Officer (Either paper copy or electronic formats are acceptable).

(A) The initial source test report no later than 180 days after start-up and each succeeding complete annual source test report no later than 45 days after the anniversary date of the initial source test, for all control systems required in subparagraph (d)(1)(C).

(B) A report no later than 45 days after the last day of each calendar quarter with the information required in clauses (f)(2)(B)(i) and (f)(2)(B)(ii).

(i) All exceedances of the emission standards required in paragraphs (d)(4), (d)(5) and (d)(6) in the format required under Sections 1.6, 2.8 and 3.4, Attachment A. All exceedance resampling/remonitoring and each corrective action required under paragraphs (e)(1), (e)(2) and (e)(3). If there are no exceedances, submit a letter stating there were no exceedances for that quarter.

(ii) All TAC analyses required in paragraphs (e)(1) through (e)(5).

(C) A closure report to the Executive Officer no later than 30 days after waste acceptance cessation. The Executive Officer may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR, Part 60, Section 258.60 or the applicable federal, state and local statutes, regulations, and ordinances in effect at the time of closure. If a closure report has been submitted to the Executive Officer, no additional wastes shall be placed into the landfill without

757(d)

filing a notification of modification as described under 40 CFR, Part 60, Section 60.7(a)(4).

(D) A decommissioning report to the Executive Officer 30 days prior to well capping, removal or cessation of operation of the collection, treatment or control equipment. The decommissioning report shall contain all of the items as specified in clauses (f)(2)(D)(i) through (f)(2)(D)(iii):

757(e)

(i) A copy of the closure report submitted in accordance with subparagraph (f)(2)(C).

(ii) A copy of the initial source test report demonstrating that the collection and control system has been installed a minimum of 15 years.

(iii) All records needed to verify the landfill meets the exemption criteria under subdivision (k).

(g) Active Landfill Compliance Schedule

The MSW landfill owner or operator shall comply with the active landfill requirements of this rule or submit alternatives to this rule as specified in subdivision (i) no later than 90 days after the adoption of this rule. Rule 1150.1 Compliance Plans previously submitted to the District shall remain in effect during the 90 days after the adoption of this rule, or until the owner or operator has received an approved alternative Rule 1150.1 Compliance Plan submitted as specified in subdivision (i).

(h) Inactive Landfill Requirements

The MSW landfill owner or operator shall comply with either the applicable requirements in paragraphs (h)(1) and (h)(2) or submit alternatives to this rule as specified in subdivision (i).

(1) Inactive landfills that have a landfill gas collection system shall meet all of the active landfill requirements. For those inactive landfills without a gas collection system and determined to need one, meet all of the active landfill requirements, except the collection and control system design plan and applications for permits shall be submitted no later than one year after notification by the Executive Officer.

(2) Inactive landfills without a gas collection system:

(A) Upon discovery of TOC measured as methane exceeding 500 ppmv at any location on the landfill surface, apply mitigation measures such as compaction, additional cover, and/or watering to reduce the emissions to less than 500 ppmv. The procedure used for measurement of TOC shall meet the requirements of Section 3.0, Attachment A.

(B) Submit the following Data and/or meet the required action in paragraph (h)(1):

(i) At any time after the adoption of this rule, but not later than 30 days after the receipt of a request, submit to the Executive Officer a screening questionnaire pursuant to California Air Resources Board Health and Safety Code (H & S) 41805.5.

(ii) No later than 90 days after the date of a second request, submit to the Executive Officer a solid waste air quality assessment test (SWAT) report pursuant to H & S 41805.5, to determine whether or not a landfill gas collection and control system and/or a subsurface refuse boundary probe sampling system shall be required to be installed.

(iii) If additional time is needed to provide the information required in clauses (h)(2)(B)(i) and (h)(2)(B)(ii), a written request for an extension may be submitted in writing to the Executive Officer, indicating the amount of time that is needed to obtain such information. Such a request for an extension may be submitted to the Executive Officer no later than 30 days after the receipt of the Executive Officer's requests as specified in clauses (h)(2)(B)(i) and (h)(2)(B)(ii).

(iv) Upon notification by the Executive Officer that a landfill gas collection and control system and/or a subsurface refuse boundary probe sampling system shall be required, comply with paragraph (h)(1).

(i) Alternatives:

752(b)(2)(i)(B) Because of the many site-specific factors involved in the design and operation of landfill gas systems, alternatives to the requirements, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions of this rule may be necessary. All alternatives to the requirements of this rule shall be submitted to the Executive Officer in a Rule 1150.1 Compliance Plan. The Executive Officer shall review the Rule 1150.1 Compliance Plan and either approve it, disapprove it, or request that additional information be submitted. The Executive Officer shall deny the plan unless he determines that it will provide equivalent levels of emission control and enforceability, as would compliance with the requirements of this rule.

(j) Test Methods

(1) Methods of Analysis

754(d) (A) Either U.S. EPA Reference Method 25 or U.S. EPA Reference Method 18, 40 CFR, Part 60, Appendix A shall be used to determine the efficiency of the control system in reducing NMOC by at least 98 percent by weight. If using Method 18, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The equation in subparagraph (j)(1)(B) shall be used to calculate efficiency.

(B) U.S. EPA Reference Method 25, 40 CFR, Part 60, Appendix A shall be used to determine the efficiency of the control system in reducing the outlet NMOC concentration to less than 20 ppmv, dry basis as hexane at 3 percent oxygen. Until, but not after District Method 25.3 has met equivalency as specified in paragraph (j)(2), U.S. EPA Reference Method 18, 40 CFR, Part 60, Appendix A may be used for this source test. If using Method 18, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The following equation shall be used to calculate efficiency:

Control Efficiency = $(NMOC_{in} - NMOC_{out})/(NMOC_{in})$

where,

$NMOC_{in}$ = mass of NMOC entering control device

$NMOC_{out}$ = mass of NMOC exiting control device

(2) Equivalent Test Methods

Any other method demonstrated to be equivalent and approved in writing by the Executive Officers of the District, the California Air Resources Board (CARB), and the Regional Administrator of the United States Environmental Protection Agency (U.S. EPA), Region IX, or their designees, may be used to determine compliance with this rule.

(k) Exemptions

An MSW landfill may be temporarily exempt from all or any portion of the requirements of this rule if the owner or operator can demonstrate to the Executive Officer that the MSW landfill emissions meet the requirements of paragraphs (k)(1) through (k)(4). Temporary exemption may be independently determined by the Executive Officer, if the MSW landfill emissions meet the requirements of paragraphs (k)(1) through (k)(4). MSW landfills issued temporary exemption letters by the Executive Officer shall remain exempt, subject to periodic review, provided:

(1) The MSW landfill complies with the requirements of paragraphs (d)(4), (d)(5) and (d)(6).

(2) The MSW landfill emits less than 55 tons per year of NMOC as specified in 40 CFR, Part 60, Section 60.752(b) or, for a closed landfill, as specified in 40 CFR, Part 60, Section 60.752(b)(2)(v)(C).

752(b)

(3) The MSW landfill constitutes an insignificant health risk. In making this determination the Executive Officer shall consider the listed factors in subparagraphs (k)(3)(A) through (k)(3)(G). Where not specified, in evaluating the cancer risks and hazard indexes, the Executive Officer shall be guided by the definitions in District Rule 1401 - New Source Review of Carcinogenic Air Contaminants, and Rule 1402 - Control of Toxic Air Contaminants From Existing Sources.

(A) The proximity to, and any adverse impacts on, residences, schools, hospitals or other locations or structures which have children, or elderly or sick persons.

(B) The emission migration beyond the landfill property boundary.

(C) The complaint history.

(D) The age and closure date.

(E) The amount and type of waste deposited.

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(F) That the emissions of carcinogenic air contaminants, specified in Table 1, Attachment A, from the landfill will not result in a maximum individual cancer risk greater than one in one million (1×10^{-6}) at any receptor location.

(G) That the emissions of TAC, specified in Table 1, Attachment A, from the landfill will not result in a total acute or chronic Hazard Index of greater than 1.

(4) The MSW landfill is in compliance with District Nuisance Rule 402.

Such temporary exemption shall be reviewed periodically by the Executive Officer, to consider the land use surrounding the landfill and gaseous emissions, and the impact on the public. Depending upon the results of the review, the Executive Officer may extend or terminate the exemption.

(l) Loss of Exemption

If an MSW landfill should have its temporary exemption terminated, the owner or operator shall comply with the active landfill requirements of this rule.

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ATTACHMENT A

1.0 SUBSURFACE REFUSE BOUNDARY SAMPLING PROBES
Paragraph (d)(4) and (e)(1) Requirements of Rule 1150.1

1.1 Subsurface Probe Design and Installation

Landfills which are subject to Rule 1150.1 must install and maintain a subsurface refuse boundary probe sampling system of adequate design to determine if gas migration exists for the ultimate purpose of preventing surface emissions. The California Integrated Waste Management Board also requires the installation of refuse boundary probes for purposes of detecting and ultimately preventing subsurface migration of landfill gas past the permitted property boundary of the landfill/disposal site as well as the prevention of the accumulation of landfill gas in on-site structures. It is the District's intent that the subsurface refuse boundary probes required by paragraph (d)(3) of Rule 1150.1 be designed and installed in such a manner as to comply with the requirements of the California Integrated Waste Management Board (whenever possible) and Sections 1.1.1 through 1.1.4.

1.1.1 The probes shall be installed within the landfill property line and outside the refuse disposal area.

1.1.2 Wherever accessible, the probes shall be located no further than 100 feet from the refuse boundary.

1.1.3 The spacing between probes shall be based on the adjacent land use no further than 1320 feet (1/4 mile) from the refuse boundary and shall be determined as follows:

LAND USE	SPACING
Residential/Commercial	100 feet
Public Access	500 feet
Undeveloped Open Space, (No Public Access)	650 feet
Landfill with Liners	1000 feet

1.1.4 Each probe shall be capped, sealed, have a sampling valve and be of multiple-depth design for which the depth shall be determined based on the depth of refuse no further than 500 feet from the probe as follows:

First Depth	10 feet below surface.
Second Depth	25% of refuse depth or 25 feet below surface, whichever is deeper.

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Third Depth	50% of refuse depth or 50 feet below surface, whichever is deeper.
Fourth Depth	75% of refuse depth or 75 feet below surface, whichever is deeper.

Second, third, or fourth depth probes may be deleted if the required depth of such probe is deeper than the depth of the refuse.

1.2 Number of Samples

All refuse boundary gas probes at each depth shall be monitored monthly for TOC measured as methane using a portable flame ionization detector (FID) meeting the requirements of Section 3.2 and with a tube connected to the probe sampling valve. In addition, samples shall be taken as specified in Section 1.2.1 or 1.2.2 to determine the concentration of both TOC and TAC. The Executive Officer may require additional probes to be sampled upon written request.

1.2.1 If the TOC concentration measured with the FID does not exceed 5% by volume in any of the probes, collect one bag sample from one probe with the highest concentration, or

1.2.2 If the TOC concentration measured with the FID for any of the probes exceeds 5% by volume, collect one bag sample per probe from the probes with the highest concentrations above 5% by volume, from at least five probes.

1.3 Subsurface Refuse Boundary Probe Sampling Procedure

1.3.1 Prior to collecting gas samples, evacuate the probe (the probes must be sealed during evacuation) until the TOC concentration remains constant for at least 30 seconds.

1.3.2 The constant TOC concentration shall be measured using an FID that meets the requirements in Section 3.2.

1.3.3 Collect approximately a 10-liter gas sample in a Tedlar (Dupont trade name for polyvinyl) bag or equivalent container over a continuous ten-minute period using the evacuated container sampling procedure described in Section 7.1.1 of EPA Method 18 or direct pump sampling procedure described in Section 7.1.2 of EPA Method 18. The container shall be LIGHT-SEALED.

1.4 Subsurface Refuse Boundary Probe Analytical Procedures

All samples collected shall be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis or a portable FID that meets the requirements in Section 3.2 and for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

1.5 Chain of Custody (Required for samples sent to the lab)

A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

1.6 Recording the Results

1.6.1 Record the volume concentration of TOC measured as methane for each individually identified refuse boundary probe (at each depth) and the volume concentration of TAC for selected probes on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of both the refuse boundary probes and the gas collection system clearly marked and identified.

1.6.2 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

2.0 INTEGRATED LANDFILL SURFACE SAMPLING

Paragraph (d)(5) and (e)(2) Requirements of Rule 1150.1

2.1 Number of Samples

The number of samples collected will depend on the area of the landfill surface. The entire landfill disposal area shall be divided into individually identified 50,000 square foot grids. One monthly sample shall be collected from each grid for analysis. Any area that the Executive Officer deems inaccessible or dangerous for a technician to enter may be excluded from the sampling grids monitored by the landfill owner or operator. To exclude an area from monitoring, the landfill owner or operator shall file a written request with the Executive Officer. Such a request shall include an explanation of the requested exclusion and photographs of the area. The Executive Officer shall notify the landfill owner or operator in writing of

the decision. Any exclusion granted shall apply only to the monitoring requirement. The 50 ppmv limit specified in paragraph (d)(5) of Rule 1150.1 applies to all areas.

2.2 Integrated Surface Sampling Conditions

2.2.1. The average wind speed during this sampling procedure shall be five miles per hour or less. Surface sampling shall be terminated when the average wind speed exceeds five miles per hour or the instantaneous wind speed exceeds ten miles per hour. Average wind speed is determined on a 15-minute average.

2.2.2. Surface sampling shall be conducted when the landfill is dry. The landfill is considered dry when there has been no measurable precipitation for the preceding 72 hours prior to sampling. Most major newspapers report the amount of precipitation that has fallen in a 24-hour period throughout the Southern California area. Select the nearest reporting station that represents the landfill location or provide for measurable precipitation collection at the MSW landfill wind monitoring station.

2.3 Integrated Surface Sampler Equipment Description

An integrated surface sampler is a portable self-contained unit with its own internal power source. The integrated sampler consists of a stainless steel collection probe, a rotameter, a pump, and a 10-liter Tedlar bag enclosed in a LIGHT-SEALED CONTAINER to prevent photochemical reactions from occurring during sampling and transportation. The physical layout of the sampler is shown in Figure 1.

An alternate integrated surface sampler may be used, provided that the landfill owner or operator can show an equivalency with the sampler specifications in Section 2.4 and shown in Figure 1. All alternatives shall be submitted as specified in subdivision (i) of Rule 1150.1.

2.4 Integrated Surface Sampler Equipment Specifications

2.4.1 Power: Batteries or any other power source.

2.4.2 Pump: The diaphragm shall be made of non-lubricated Viton (Dupont trade name for co-polymer of hexafluoropropylene and vinylidene fluoride) rubber.

2.4.3 Bag: One 10-liter Tedlar bag with a valve. The Tedlar bag shall be contained in a LIGHT-SEALED CONTAINER. The valve shall be leak

free and constructed of aluminum, stainless steel, or non-reactive plastic with a Viton or Buna-N (butadiene acrylonitrile co-polymer) o-ring seal.

2.4.4 Rotameter: The rotameter shall be made of borosilicate glass or other non-reactive material and have a flow range of approximately 0-to-1 liter per minute. The scale shall be in milliliters or an equivalent unit. The graduations shall be spaced to facilitate accurate flow readings.

2.4.5 Air Flow Control Orifice: Needle valve in the rotameter.

2.4.6 Funnel: 316 stainless steel.

2.4.7 Fittings, Tubing and Connectors: 316 stainless steel or Teflon.

2.5 Integrated Surface Sampling Procedure

2.5.1 An integrated surface sampler as described in Section 2.4 shall be used to collect a surface sample approximately 8-to-10 liters from each grid.

2.5.2 During sampling, the probe shall be placed 0-to-3 inches above the landfill surface.

2.5.3 The sampler shall be set at a flow rate of approximately 333 cubic centimeters per minute

2.5.4 Walk through a course of approximately 2,600 linear feet over a continuous 25-minute period. Figure 2 shows a walk pattern for the 50,000 square foot grid.

2.6 Integrated Surface Sample Analytical Procedures

All samples collected shall be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis or a portable FID that meets the requirements in Section 3.2. In addition, the samples specified in Section 2.6.1 or 2.6.2 must be analyzed no later than 72 hours after collection for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

2.6.1 Ten percent of all samples which have a concentration of TOC greater than 50 ppmv as methane, or

2.6.2 Two samples if all samples are 50 ppmv or less of TOC or two samples if there are less than 20 samples above 50 ppmv.

The Executive Officer may require more samples to be tested for TAC if he determines there is a potential nuisance or public health problem.

2.7 Chain of Custody (Required for samples sent to the lab)

A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

2.8 Recording the Results

2.8.1 Record the volume concentration of both TOC measured as methane for each grid and the volume concentration for the required TAC on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of the grids and the gas collection system clearly marked and identified.

2.8.2 Record the wind speed during the sampling period using the wind speed and direction monitoring system required in paragraph (d)(9) of Rule 1150.1.

2.8.3 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

3.0 INSTANTANEOUS LANDFILL SURFACE MONITORING
Subparagraph (d)(6) and (e)(3) Requirements of Rule 1150.1

3.1 Monitoring Area

The entire landfill disposal area shall be monitored once each calendar quarter. Any area of the landfill that the Executive Officer deems as inaccessible or dangerous for a technician to enter may be excluded from the area to be monitored by the landfill owner or operator. To exclude an area from monitoring, the landfill owner or operator shall file a petition with the Executive Officer. Such a request shall include an explanation of why the area should be excluded and photographs of the area. Any excluded area granted shall only apply to the monitoring requirement. The 500 ppmv limit specified in paragraph (d)(6) of Rule 1150.1 applies to all areas.

3.2 Equipment Description and Specifications

A portable FID shall be used to instantaneously measure the concentration of TOC measured as methane at any location on the landfill. The FID shall meet the

specifications listed in Sections 3.2.1 through 3.2.4 and shall be kept in good operating condition.

3.2.1 The portable analyzer shall meet the instrument specifications provided in Section 3 of U.S. EPA Method 21, except that:

3.2.1.1 "Methane" shall replace all references to VOC.

3.2.1.2 A response time of 15 seconds or shorter shall be used instead of 30 seconds.

3.2.1.3 A precision of 3% or better shall be used instead of 10%. In addition the instrument shall meet the specifications in Sections 3.2.1.4 through 3.2.1.6.

3.2.1.4 A minimum detectable limit of 5 ppmv (or lower).

3.2.1.5 A flame-out indicator, audible and visual.

3.2.1.6 Operate at an ambient temperature of 0 - 50° C.

3.2.2 The calibration gas shall be methane, diluted to a nominal concentration of 10,000 ppmv in air for subsurface refuse boundary probe monitoring and sample analysis to comply with paragraph (e)(1) of Rule 1150.1; 50 ppmv in air for integrated sample analyses to comply with paragraph (e)(2) of Rule 1150.1 and 500 ppmv in air for instantaneous monitoring to comply with paragraph (e)(3) of Rule 1150.1.

3.2.3 To meet the performance evaluation requirements in Section 3.1.3 of U.S. EPA Method 21, the instrument evaluation procedures of Section 4.4 of U.S. EPA Method 21 shall be used.

3.2.4 The calibration procedures provided in Section 4.2 of U.S. EPA Method 21 shall be followed at the beginning of each day before commencing a surface monitoring survey.

3.3 Monitoring Procedures

3.3.1 The owner or operator shall monitor the landfill disposal area for TOC measured as methane using the described portable equipment.

3.3.2 The sampling probe shall be placed at a distance of 0-3 inches above any location of the landfill to take the readings.

3.3.3 At a minimum, an individually identified 50,000 square foot grid shall be used and a walk pattern as illustrated in Figure 2 shall be implemented including areas where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover.

3.4 Recording the Results

3.4.1 Record the location and concentration of TOC measured as methane for any instantaneous reading of 500 ppmv or greater on a topographic map of the landfill, drawn to scale with the location of both the grids and the gas collection system clearly marked and identified.

3.4.2 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

4.0 LANDFILL GAS SAMPLE FROM GAS COLLECTION SYSTEM

Subparagraph (e)(4) Requirement of Rule 1150.1

4.1 Number of Samples

Collect one monthly sample of landfill gas for analysis from the main gas collection header line entering the gas treatment and/or gas control system(s).

4.2 Sampling Procedure

Collect approximately a 10-liter sample in a Tedlar bag or equivalent container over a continuous ten-minute period.

4.3 Analytical Procedures

Samples collected shall be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis and for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

4.4 Chain of Custody (Required for samples sent to the lab)

A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

4.5 Recording the Results

4.5.1 Record the volume concentration of both TOC measured as methane and the volume concentration for the required TAC on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of the gas collection and control system clearly marked and identified.

4.5.2 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

5.0 AMBIENT AIR SAMPLES AT THE LANDFILL PROPERTY BOUNDARY Subparagraph (e)(5) Requirement of Rule 1150.1

5.1 Number of Samples

Monthly ambient air samples shall be collected for analysis at the landfill property boundary from both an upwind and downwind sampler sited to provide good meteorological exposure to the predominant offshore (drainage land breeze) and onshore (sea breeze) wind flow patterns. The upwind and downwind samples shall be collected simultaneously over two 12 hour periods beginning between 9:00 a.m. and 10:00 a.m., and 9:00 p.m. and 10:00 p.m. on the same day or different days.

5.2 Ambient Air Sampling Conditions

Ambient air sampling shall be conducted on days when stable (offshore drainage) and unstable (onshore sea breeze) meteorological conditions are representative for the season. Preferable sampling conditions are characterized by the following meteorological conditions:

5.2.1 Clear cool nights with wind speeds of two miles per hour or less, and

5.2.2 Onshore sea breezes with wind speeds ten miles per hour or less.

No sampling will be conducted if the following adverse meteorological conditions exist:

5.2.3 Rain,

5.2.4 Average wind speeds greater than 15 miles per hour for any 30-minute period, or

5.2.5 Instantaneous wind speeds greater than 25 miles per hour.

Continuously recorded on-site wind speed and direction measurements required in paragraph (d)(9) of Rule 1150.1 will characterize the micrometeorology of the site and serve to verify that the meteorological criteria have been met during sampling.

5.3 Ambient Air Sampler Equipment Description

An ambient air sampling unit consists of a 10-liter Tedlar bag, a DC-operated pump, stainless steel capillary tubing to control the sample rate to the bag, a bypass valve to control the sample flow rate (and minimize back pressure on the pump), a Rotameter for flow indication to aid in setting the flow, a 24-hour clock timer to shut off the sampler at the end of the 24-hour sampling period, and associated

tubing and connections (made of stainless steel, Teflon, or borosilicate glass to minimize contamination and reactivity). The physical layout of the sampler is shown in Figure 5.

An alternate ambient air sampler may be used, provided that the landfill owner or operator can show an equivalency with the sampler specifications in Section 5.3 and shown in Figure 5. All alternatives shall be submitted as specified in subdivision (i) of Rule 1150.1.

5.4 Ambient Air Sampler Equipment Specifications

The equipment used when conducting air samples at any landfill property boundary shall meet the following specifications:

5.4.1 Power: one 12V DC marine battery. The marine battery provides 12V DC to the pump and the clock.

5.4.2 Pump: one 12V DC pump. The diaphragm shall be made of non-lubricated Viton rubber. The maximum pump unloaded flow rate shall be 4.5 liters per minute.

5.4.3 Bag: One 10-liter Tedlar bag with a valve. The Tedlar bag shall be enclosed in a LIGHT-SEALED CONTAINER. The valve is a push-pull type constructed of aluminum and stainless steel, with a Viton or Buna-N (butadiene acrylonitrile co-polymer) o-ring seal.

5.4.4 Rotameter - made of borosilicate glass and has a flow range of 3-to-50 cubic centimeters per minute. The scale is in millimeters (mm) with major graduations (labeled) every 5 mm and minor graduations every 1 mm.

5.4.5 Air flow control orifice: 316 stainless steel capillary tubing.

5.4.6 Bypass valve.

5.4.7 Fittings, tubing, and connectors -- 315 stainless steel or Teflon.

5.4.8 Clock timer with an accuracy of better than 1%.

5.5 Ambient Air Sample Analytical Procedures

Samples collected must be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis or a portable FID that meets the requirements in Section 3.2 and for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

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5.6 Chain of Custody (Required for samples sent to the lab)

A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

5.7 Recording the Results

5.7.1 Record the volume concentration of TOC measured as methane and the volume concentration of TAC for each sample on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of both the upwind and downwind samplers and the gas collection and control system clearly marked and identified.

5.7.2 Record the wind speed and direction during the 24-hour sampling period using the wind speed and direction monitoring system required in paragraph (d)(9) of Rule 1150.1.

5.7.3 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

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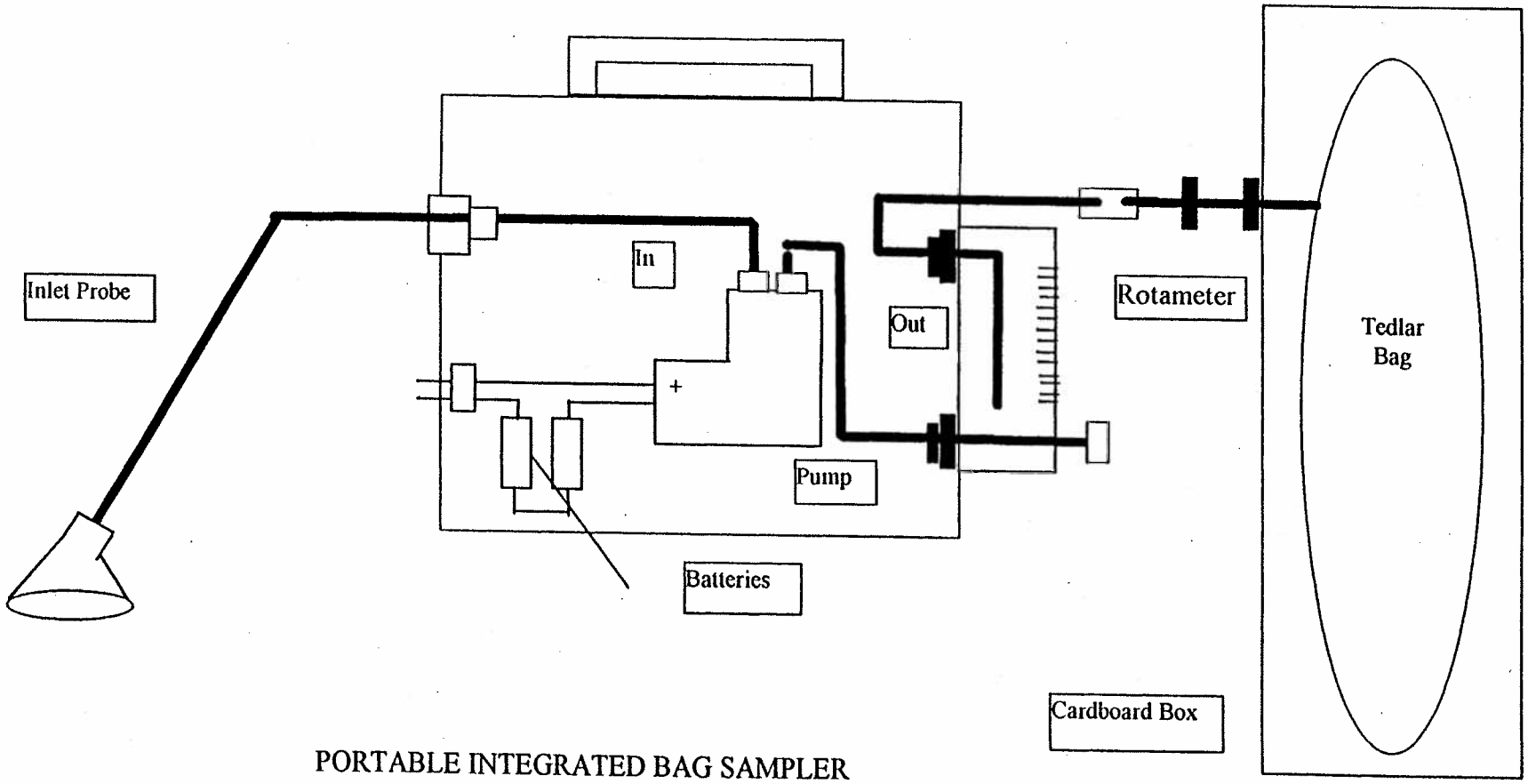

PORTABLE INTEGRATED BAG SAMPLER
Physical Layout

Figure 1

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Typical Landfill Walk Pattern
for a 50,000 Square Foot Grid

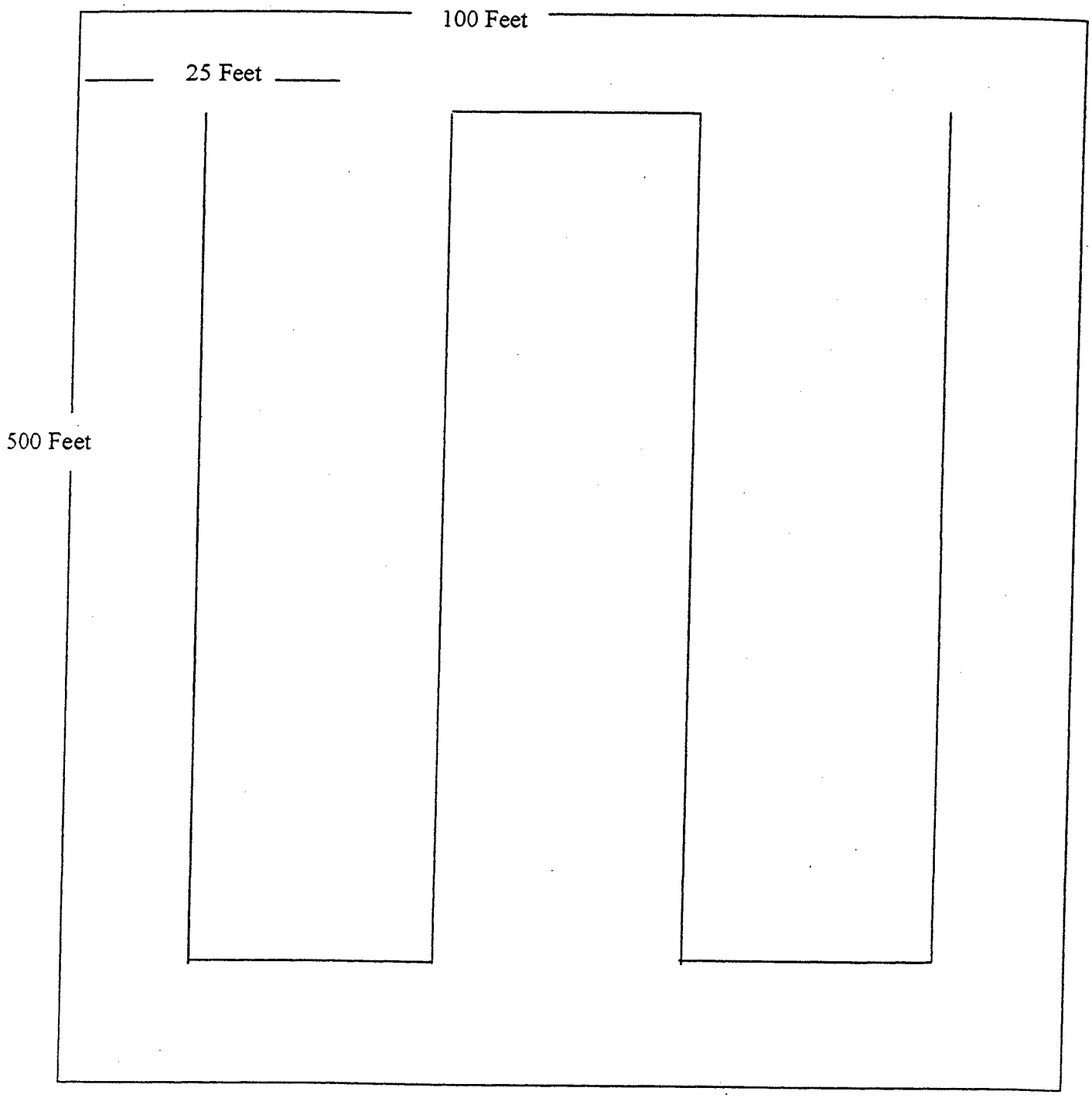

Figure 2

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QUALITY CONTROL SHEET

- Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample.
- All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

OPERATION					BAG SAMPLES				COMMENTS
Grid or probe #	Date	Wind Speed	Time On	Time Off	I.D.#	Valve Open	Rotameter Reading	Pump (On/Off)	
Signature:									

Figure 3

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BAG SAMPLE CUSTODY FORM

Project _____ Date: _____

Bag (I.D. #)									
Condition Received in Lab*									

Bags Prepared By: _____ Time: _____

Bags Taken Out By: _____ Date: _____

Bags Taken to Lab By _____ Time: _____

Bags Received In Lab By: _____ Time _____

* F = 1/2 full to full, 0 = Overfull (Bulging), L = 1/4 to 1/2 full,
E = Less than 1/4 full but contains some sample, N = No sample at all.

Figure 4

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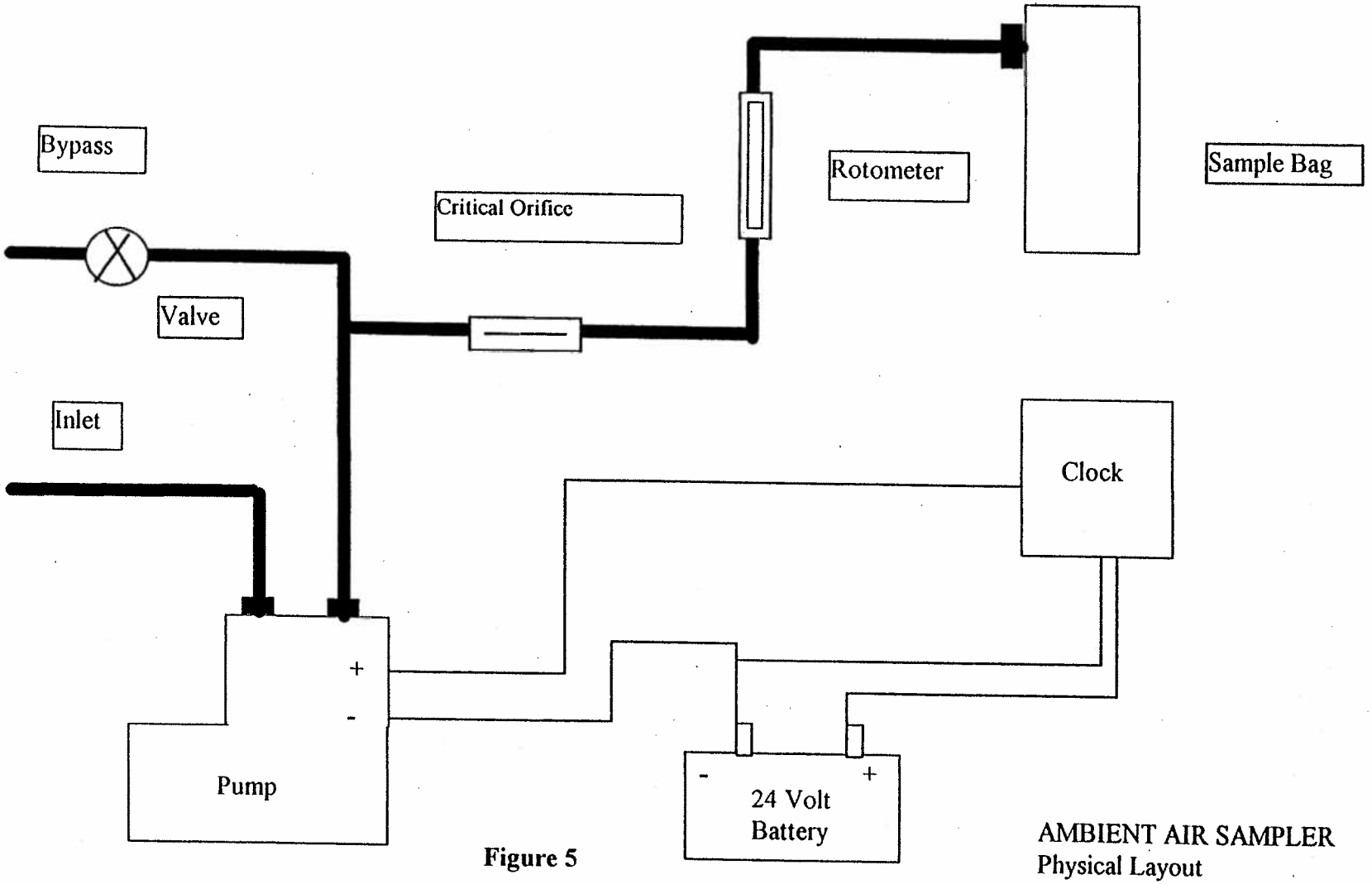

Figure 5

AMBIENT AIR SAMPLER
Physical Layout

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TABLE 1 - CARCINOGENIC AND TOXIC AIR CONTAMINANTS
(Core Group)

Paragraph (e)(2), Subparagraphs (k)(3)(F) and (k)(3)(G) Requirements of Rule 1150.1

1.	Benzene	C_6H_6
2.	Benzyl Chloride	$C_6H_5H_2Cl$
3.	Chlorobenzene	C_6H_5Cl
4.	1,2 Dibromoethane (Ethylene Dibromide)	$BrCH_2CH_2Br$
5.	Dichlorobenzene	$C_6H_4Cl_2$
6.	1,1 Dichloroethane (Ethylidene Chloride)	CH_3CHCl_2
7.	1,2 Dichloroethane (Ethylene Dichloride)	ClH_2H_2Cl
8.	1,1 Dichloroethene (Vinylidene Chloride)	$CH_2 : CCl_2$
9.	Dichloromethane (Methylene Chloride)	CH_2Cl_2
10.	Hydrogen Sulfide	H_2S
11.	Tetrachloroethylene (Perchloroethylene)	$Cl_2C : CCl_2$
12.	Tetrachloromethane (Carbon Tetrachloride)	CCl_4
13.	Toluene	$C_6H_5CH_3$
14.	1,1,1 Trichloroethane (Methyl Chloroform)	CH_3CCl_3
15.	Trichloroethylene	$CHCl : CCl_2$
16.	Trichloromethane (Chloroform)	$CHCl_3$
17.	Vinyl Chloride	$CH_2 : CHCl$
18.	Xylene	$C_6H_4(CH_3)_2$

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TABLE 2 - CARCINOGENIC AND TOXIC AIR CONTAMINANTS
(Supplemental Group)

Paragraph (e)(2), Subparagraphs (k)(3)(F) and (k)(3)(G) Requirements of Rule 1150.1

1.	Acetaldehyde	CH3CHO
2.	Acrolein	CH2CHCHO
3.	Acrylonitrile	H2C : CHCN
4.	Allyl Chloride	H2C : CHCH2C1
5.	Bromomethane (Methyl Bromide)	CH3Br
6.	Chlorinated Phenols	
7.	Chloroprene	H2C : CHCC1 : CH2
8.	Cresol	CH3C6H4OH
9.	Dialkyl Nitrosamines	
10.	1,4 - Dioxane	OCH2CH2OCH2CH2
11.	Epichlorohydrin	CH2OCHCH2C1
12.	Ethylene Oxide	CH2CH2O
13.	Formaldehyde	HCHO
14.	Hexachlorocyclopentadiene	C5C16
15.	Nitrobenzene	C6H5NO2
16.	Phenol	C6H5OH
17.	Phosgene	COC12
18.	Polychlorinated Dibenzo-P-Dioxin	
19.	Polychlorinated Dibenzo Furan	
20.	Polychlorinated Biphenols	
21.	Polynuclear Aromatic Hydrocarbons	
22.	Propylene Oxide	CH2-CH-CH3
23.	Tetrahydrothiophene	CH2CH2CH2CH2S
24.	Thiophene	CHCHCHCHS

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Air Quality Management District
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BOARD MEETING DATE: May 8, 1998 AGENDA NO. 3

PROPOSAL: Set Public Hearing June 12, 1998 to Amend Rule 431.1 - Sulfur Content of Gaseous Fuels

SYNOPSIS: Proposed amendments address SIP changes recommended by the U.S. EPA; provide relief to landfill operators from having to remove sulfur compounds from landfill gas (LFG) to the required level of 40 ppmv since a cost-effective control technology has not been developed; and exempt a person burning LFG from the installation and operation of continuous fuel gas monitoring systems or continuous emission monitoring systems until December 31, 1998.

COMMITTEE: Stationary Source, April 17, 1998, Reviewed

RECOMMENDED ACTION:
Set Public Hearing June 12, 1998 to amend Rule 431.1 - Sulfur Content of Gaseous Fuels.

Barry R. Wallerstein, D.Env.
Acting Executive Officer

CC:WCT:DR:dr

Background
Rule 431.1 - Sulfur Content of Gaseous Fuels, was first adopted in November 1977 and was subsequently amended ten different times, with the most recent amendment in November, 1995.

The purpose of the rule is to reduce SOx emissions from the burning of gaseous fuels in stationary combustion equipment. In order to achieve that, Rule 431.1 imposes limits on total sulfur content of gaseous fuels.

Landfill gas (LFG) and sewage digester gas sulfur limits were first set in 1982.

The amendments in 1990 implemented Control Measure 88-F-2 of the 1989 AQMP by imposing a uniform sulfur limit of 40 parts per million by volume (ppmv) with a final compliance date of May 4, 1992. Continuous monitors were also required to be installed by May 4, 1992.

Subsequent amendments were adopted to provide additional time extensions to develop sulfur removal technology and a continuous total sulfur monitoring system, with a final compliance date of May 4, 1994.

The November 1995 amendments provided a three-year extension for landfills and additional flexibility for other affected facilities to comply with the rule requirements.

During the three-year extension, a landfill industry group was formed to study available technologies and to install several research demonstration projects in an attempt to find a cost-effective control technology to remove sulfur from LFG.

The study identified 78 sulfur removal processes, of which only a few were found to be technically feasible and thus considered for further investigation and pilot testing.

Cost-effective analysis revealed a range of $21,000 to $41,100 for large landfills and $32,800 to $68,600 for small landfills per ton of sulfur removed. Pilot tests were conducted to confirm these cost estimates. For comparison, permit applications subject to a cost-effectiveness analysis do not require best available control technology (BACT) if the cost is greater than $18,300 per ton of SO_x removed. Additionally, waste disposal of spent chemicals and non-regenerative carbon present cross-media environmental problems.

On February 11, 1998 the AQMD received a limited disapproval for Rule 431.1 to be implemented in the SIP, because of two minor deficiencies.

Proposal
After evaluation of the above events, it is recommended that proposed Rule 431.1 be amended to address the SIP changes recommended by the U.S. EPA to change the word "may" to "shall" in subdivision (f), Test Methods, and to require CARB and EPA approval of alternative monitoring plans in Attachment A, Section III; to provide relief to landfill operators from having to remove sulfur compounds from LFG to the required level of 40 ppmv, since a cost-effective control technology has not been developed, and to exempt a person burning LFG from the installation and operation of continuous fuel gas monitoring systems (CFGMS) or continuous emission monitoring systems (CEMS) until December 31, 1998.

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AQMP and Legal Mandates
The proposed rule amendments correct two minor deficiencies necessary to obtain SIP approval. A noticed public meeting was held on March 25, 1998

CEQA & Socioeconomic Analysis
Pursuant to the California Environmental Quality Act (CEQA) and AQMD Rule 110, the AQMD, as lead agency, has prepared a Draft Supplemental Environmental Assessment (SEA) for the proposed amendments to Rule 431.1 - Sulfur Content of Gaseous Fuels. The Draft SEA is currently being circulated for a 45-day public review and comment period which ends on May 15, 1998. All comments received on the Draft SEA will be incorporated into the Final SEA for the proposed project.

The proposed amendments do not require additional controls or result in emission reductions and therefore, are not expected to impose cost or other socioeconomic impacts. Since there will be no additional compliance costs, consideration of cost-effectiveness and an incremental cost-effectiveness analysis is not applicable.

Implementation Plan
Persons burning landfill gas are exempt from having to install and operate a continuous monitor until December 31, 1998. If the person burning landfill gas chooses to use an alternative monitoring plan instead of a continuous monitor, the plan is required to be submitted to the AQMD by September 1, 1998. Until December 31, 1998 or upon approval or disapproval of the alternative monitoring plan, the person burning the LFG will determine and report the sulfur content of the fuel as required in the Rule 1150.1 Compliance Plan for that landfill.

Resource Impacts
Not applicable.

Attachments
Summary of Proposed Amendments
Rule Development Process
Key Contacts
Proposed Rule Language
Draft Staff Report

ATTACHMENT A

Summary of Proposed Amendments to Rule 431.1 - Sulfur Content of Gaseous Fuels

The proposed amendments contain:

- An additional definition for Continuous Monitor.
- A change in the limit for the sulfur content of landfill gas from 40 ppmv to 150 ppmv averaged daily with a compliance date of June 12, 1998.
- State Implementation Plan changes to the rule.
- Revisions to the rule for clarity.
- An exemption for persons burning LFG to have until December 31, 1998 to install and operate a continuous monitor and meanwhile, use their approved Rule 1150.1 Compliance Plan for the determination and reporting of the sulfur content in the LFG. In addition a person burning LFG has the option of using an approved alternative monitoring method instead of a continuous monitor. The alternative monitoring plan is required to be submitted by September 1, 1998 and during the approval or disapproval process, determination and reporting of the sulfur content in the LFG will be through the use of the approved Rule 1150.1 Compliance Plan.

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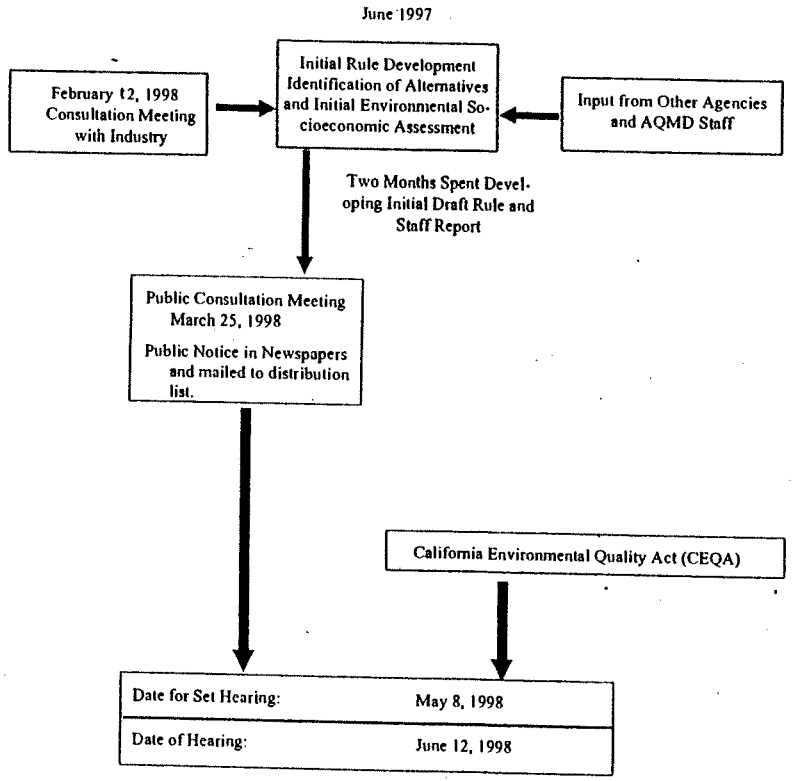
ATTACHMENT B

RULE DEVELOPMENT PROCESS

PROPOSED AMENDED RULE 431.1 - SULFUR CONTENT OF GASEOUS FUELS



Total Time Spent in Rule Development
Pre-Board Hearing: Five Months

ATTACHMENT C

KEY CONTACTS LIST

- Environmental Agencies
  - Environmental Protection Agency, Region IX
  - California Air Resources Board
- Public Agencies
  - County Sanitation Districts of Los Angeles County
  - County of Orange Integrated Waste Management Department
- AQMD Committees
  - Rule Team Development
  - Stationary Source Compliance
- Industry
  - BFI
  - Ogden Power Pacific, Inc.
  - Chevron Products Company

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(Adopted November 4, 1977)(Amended September 1, 1978)
(Amended February 2, 1979)(Amended January 8, 1982)
(Amended May 6, 1983)(Amended May 4, 1990)
(Amended April 5, 1991)(September 11, 1992)
(October 2, 1992)(November 17, 1995)
(PAR - 431.1D June 12, 1998)

RULE 431.1. SULFUR CONTENT OF GASEOUS FUELS

(a) Purpose

The purpose of this rule is to reduce sulfur oxides (SO_x) emissions from the burning of gaseous fuels in stationary equipment~~ requiring a permit to operate by the South Coast Air Quality Management District (District)~~.

(b) Applicability

The provisions of this rule shall apply to any burning, transferring, selling or the offering for sale of any gaseous fuels containing sulfur compounds in excess of 16 parts per million by volume (ppmv) calculated as hydrogen sulfide (H_2S) in stationary equipment requiring a Permit to Operate by the South Coast Air Quality Management District (District).

(c~~b~~) Definitions

(1) BURN means to combust any gaseous fuel, whether for useful heat or by incineration without heat recovery, except for flaring of emergency vent gases.

(2) CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) means~~is~~ a system of equipment that continuously measures and records all parameters necessary to directly determine concentrations ~~and~~/or mass emissions of selected pollutants, and which meets all of the requirements of Attachment A, Section II.

(3) CONTINUOUS FUEL GAS MONITORING SYSTEM (CFGMS) means~~is~~ a system of equipment that continuously measures and records total sulfur concentration in the gaseous fuel prior to burning, and which meets all the requirements of Attachment A, Section I.

(4) CONTINUOUS MONITOR means a CEMS or CFGMS.

(5~~4~~) DAILY AVERAGE means~~is~~ an arithmetic mean of all of a facility's~~the~~ sulfur compounds readings within a calendar day obtained according to the guideline specified in Attachment A.

(6~~5~~) EMERGENCY VENT GAS means~~is~~ any gas released from a process unit as a result of any process upset or breakdown.

(7~~6~~) GASEOUS FUEL means~~is~~ any gaseous material which releases heat when burned including, but not limited to, any natural, refinery, field produced, process, synthetic, landfill, sewage digester, or waste gases with a gross heating value of 2670 kilocalories per cubic meter (300 BTU per cubic foot) or higher, at standard conditions.

(8~~7~~) LANDFILL GAS means~~is~~ any gas derived through any biological process from the decomposition of organic waste buried within a waste disposal site.

(9~~8~~) MONTHLY WEIGHTED AVERAGE SULFUR CONTENT means~~is~~ the result of the summation of average daily sulfur contents of the fuel(s) consumed multiplied by the average daily consumption rates of the fuel(s) consumed in any month divided by the total gaseous fuel consumption rate for that month.

(10~~9~~) NATURAL GAS means~~is~~ a mixture of gaseous hydrocarbons, with at least 80 percent methane (by volume), and of pipeline quality, such as the gas sold or distributed by any utility company regulated by the California Public Utilities Commission.

(11~~10~~) RECLAIM SO_x FACILITY means~~is~~ a facility that has been included in the RECLAIM (Regional Clean Air Incentives Market) program in accordance with the requirements of Rule 2001 "Applicability," and/or which has been issued a RECLAIM Facility Permit and is subject to the requirements of Rule 2011, "Requirements for Monitoring, Reporting, and Recordkeeping for Oxides of Sulfur (SO_x) Emissions."

(12~~11~~) REFINERY GAS means~~is~~ any combustible gaseous by-product generated from a petroleum refinery process unit operation, with a gross heating value of 2670 kilocalories per cubic meter (300 BTU per cubic foot) or higher, at standard conditions.

(13~~12~~) SEWAGE DIGESTER GAS means~~is~~ any gas derived from anaerobic decomposition of organic sewage within its containment.

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(1~~4~~3) SMALL REFINER means any person owning or operating a facility in California that produces materials from the processing of ~~petroleum~~ crude oil provided such facility:

(A) has and at all times had since January 1, 1978, a crude oil capacity of not ntore than 55,000 barrels per stream day; and

(B) has not been, at any time since September 1, 1988, owned or controlled by any refiner that at the same time owned or controlled refineries in California with a total combined crude oil capacity of more than 55,000 barrels per stream day; and

(C) has not been at any time since September 1, 1988, owned or controlled by any refiner that at the same time owned or controlled refineries in the United States with a total combined crude oil capacity of more than 137,500 barrels per stream day; and

(D) has received a two-year extension for compliance with California Air Resources Board's Phase II Reformulated Gasoline Requirements.

(1~~5~~4) STANDARD CONDITIONS means~~is~~ the atmospheric state where the temperature is 60°F and barometric pressure is 14.7 pounds per square inch absolute.

(1~~6~~5) STREAM DAY means~~is~~ any day or part of a day when a facility or a process unit is in operation.

(d~~e~~) Sulfur Content Requirements

(1) Natural gas

A person shall not transfer, sell or offer for sale for use in the jurisdiction of~~eovered by~~ the District natural gas containing sulfur compounds calculated as H_2S in excess of 16 parts per million by volume (ppmv)~~ calculated as hydrogen sulfide~~.

~~(2) Small Refiners Refinery gas~~

~~Anytime prior to May 4, 1996, a small refiner shall not:~~

~~(A) sell any refinery gas containing sulfur compounds in excess of 80 ppmv calculated as hydrogen sulfide, or~~

~~(B) burn or discharge to any fuel gas system or vent gas disposal system, refinery gas containing sulfur compounds in excess of 800 ppmv calculated as hydrogen sulfide, unless sulfur compounds in the stack gases are reduced to a level below that which would be emitted when using a fuel which complies with the requirements of this paragraph.~~

~~For purposes of this paragraph, the 80 or 800 ppmv limit shall apply to any gaseous fuel vented from a process unit or, if applicable, as vented from a sulfur removal unit. On or after May 4, 1996, the applicable sulfur compounds content limit for small refiners refinery gas shall be as specified in paragraph (e)(3) of this rule.~~

(2~~3~~) Other Gaseous Fuels

On or after the applicable compliance dates specified in Table 1, a person shall not burn, purchase, transfer, sell or offer for sale for use in the jurisdiction of the District, any gaseous fuel containing sulfur compounds calculated as ~~ppmv~~ H_2S~~hydrogen sulfide~~, in excess of the concentration limits as measured over the averaging periods for various gaseous fuels as specified in Table 1.

TABLE 1

Fuel Type	Sulfur Limits ppmv	Averaging Period	Compliance Date On or After
Refinery Gas			
Small Refiners	40	4 hrs	May 4, 1996
Other Refiners	40	4 hrs	May 4, 1994
Landfill Gas	150	Daily	June 12, 1998~~November 17, 1995~~
	~~40 or 40 and 200~~	~~Daily or Monthly and 15-minutes~~	~~July 1, 1997~~ ~~July 1, 1997~~
Sewage Digester Gas	40 or 40 and 500	Daily or Monthly and 15-minutes	November 17, 1995 November 17, 1995
Other Gases	40	4 hrs	May 4, 1994

~~(A) Landfill gas and sewage digester gas~~

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~~(i) A person who complies through monthly averaging shall install and properly operate a continuous monitor that complies with the requirements specified in subdivision (d) of this rule. Compliance shall be determined based on readings obtained from the approved CFGMS or as calculated from the approved CEMS reading.~~

(3~~B~~) Optional Facility Compliance Plan ("OFCP")

A person may comply with paragraph (d~~e~~)(2~~3~~) by achieving equivalent sulfur oxides (SO_x) emission reductions within the facility, provided that the applicant submits and complies with an Optional Facility Compliance Plan ("OFCP") which has been approved in writing by the Executive Officer ~~or designee~~. The OFCP shall:

(A~~i~~) Contain, at a minimum, all data, records, and other information necessary to determine eligibility for alternative emission control, including but not limited to:

(i~~I~~) A list of equipment and a description of the equipment where the gaseous fuel is being produced and/or burned;

(ii~~II~~) The a~~A~~mount of fuel produced by and/or to be burned in each piece of ~~the~~ equipment listed in clause (d)(3)(A)(i)~~above~~;

(iii~~III~~) The estimated emissions of sulfur dioxide from each piece of equipment; and

(iv~~IV~~) Historical and projected information on fuel usage;

(B~~ii~~) Demonstrate that daily total SO_x emissions under the OFCP from all sources within the facility regulated under Rule 431.1 would be less than or equal to SO_x emissions that would have been emitted based on actual total SO_x emissions from each source, or the sulfur content limits of this rule, whichever results in lower SO_x emissions. The total SO_x emissions generated from the subject fuel shall be determined using a continuous emission monitoring system (CEMS) specified in subdivision (e~~d~~). The total emissions may be determined by monitoring the sulfur dioxide emissions from at least 70 percent of the total fuel gas consumed as obtained from a totalizing meter, and calculating the total emissions using the CEMS data;

(C~~iii~~) Demonstrate that the permit units subject to the specified rule emission limitations are in compliance with all applicable District rules or are on an approved schedule of compliance; and

(D~~iv~~) Demonstrate compliance with the~~that~~ continuous monitoring requirements as~~of SO_x emissions~~ specified in subdivision (e~~d~~) of this rule ~~are complied with~~.

(4) Previously Exempt or Previously Compliant Facilities

A person burning gaseous fuel containing sulfur compounds in excess of the limits specified in Table 1 and whose facility had been previously exempt from this rule pursuant to paragraph (h~~g~~)(8); or any person who, without the use of any sulfur removal or control system, had been previously in compliance with the limits specified in Table 1, shall:

(A) Ssubmit for approval by the Executive Officer ~~or designee~~ within 30 days from the time of exceedance or non-compliance, a plan to demonstrate compliance with the requirements of the rule;

(B) Ssubmit to the Executive Officer ~~or designee~~ an application for a fuel gas control system within six months of the time of exceedance of the exemption criteria specified in paragraph (h~~g~~)(8), or non-compliance with the limit;

(C) D~~d~~emonstrate compliance with the limit specified in Table 1 no later than eighteen (18) months after the time of exceedance~~, or by July 1, 1997, whichever is later~~; and

(D) Ceomply with paragraphs (e~~d~~)(1~~3~~) and (e)(2), or (e)(3).

(e~~d~~) Monitoring Requirements

(1) Except as provided in paragraph (e)(3), a~~A~~ person burning gaseous fuels, other than exclusively natural gas,~~landfill gas or sewage digester gas~~ in stationary equipment requiring a Ppermit to Ooperate by the District shall have~~install and~~ a properly operating~~e a~~ continuous fuel gas monitoring system (CFGMS) to determine the sulfur content, calculated as H_2S, of the fuel gas prior to burning;~~,~~ or a continuous emission monitoring system (CEMS) to determine SO_x emissions after burning. All~~Such~~ continuous monitors require District~~shall be~~ approval~~ed~~, which shall be based on ~~according to~~ the requirements as specified~~set forth~~ in Attachment A. ~~An alternative method~~

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~~that ensures adequate compliance with the daily total sulfur content limitation of paragraphs (e)(1), (2) and (3) of this rule may be used upon written approval by the Executive Officers of the District, the California Air Resources Board (CARB), and the Regional Administrator of the Environmental Protection Agency (EPA), Region IX, or their designees. At a minimum, the alternative method shall meet the specifications of Attachment A, Section III.~~

(A) A person shall install the CFGMS upstream of any mixing of refinery gases with natural gas, propane or other fuels.

(B) A person subject to paragraph (d)(4) of this rule shall comply with paragraphs (e)(1) and (e)(2) no later than twelve months after the date a Permit to Construct is issued by the District for a sulfur removal system or comply with paragraph (e)(3).

(C) Compliance with the Table 1 sulfur limits shall be determined based on readings obtained from an approved continuous monitor.

~~Prior to the final compliance date specified for landfill gas in Table 1, a person burning landfill gas may comply with the monitoring requirements specified in this paragraph, if data regarding total sulfur content of the landfill gas is contained and submitted to the District in a Rule 1150.1 plan.~~

~~(2) A person burning gaseous fuels other than natural gas, landfill gas, or sewage digester gas in stationary equipment requiring a District permit to operate shall install and properly operate a CFGMS to determine the total sulfur content of the gaseous fuel prior to burning, or a CEMS to determine the sulfur oxides (SOx) emissions after burning according to the applicable requirements set forth in Attachment A. A person shall not mix refinery gases with natural gas, propane or other fuels upstream of the monitoring device.~~

~~(3) A person subject to (e)(4) of this rule who burns gaseous fuels containing sulfur compounds in excess of the limits specified in Table 1, shall install and properly operate a CFGMS to determine the sulfur content in the fuel gas prior to combustion, or CEMS to determine the sulfur oxide emissions after burning, within twelve months from the date a Permit to Construct a sulfur removal system is issued. Such monitor shall be approved according to the requirements of Attachment A, or an alternative method may be used upon approval by the Executive Officers of the District and CARB, and the Regional Administrator of the EPA, Region IX, or their designees.~~

(24) A person installing a continuous monitor shall submit to the District for approval, a quality assurance procedure as specified in U.S. EPA 40 CFR, Part 60, Appendix F, Procedure 1 for CEMS and, as applicable, for CFGMS.

(A) The quality assurance procedure specified above shall be submitted to the District for written approval~~ed in writing~~ by the Executive Officer ~~or designee~~ prior to~~before~~ the CFGMS or CEMS final certification.

(B) Any CFGMS or CEMS deemed to be out of control, as specified in Attachment A, according to the facility quality assurance procedure approved by the Executive Officer ~~or designee~~ shall be corrected within 72 hours~~, as demonstrated by meeting the performance specification for which it was deemed out of control~~.

(i) The person operating the CFGMS or CEMS shall notify the Executive Officer ~~or designee~~ by telephone or facsimile of any breakdown(s) of the monitoring systems if the duration of the breakdown is in excess of 60 minutes or if there are three or more breakdowns in any one day within 24 hours of the occurrence of the breakdown which triggers notification. Such report shall identify the time, location, equipment involved, and contact person.

~~(ii) The person shall keep a record of any breakdown of the monitors and shall maintain such record for at least two years, and make it available to the District staff upon request.~~

(iii) The person who complies with the provisions of clauses (~~e~~d)(24)(B)(i) and paragraph (f)(3)~~(ii)~~ shall not be considered in violation of this rule for the 72 hour period of breakdown provided that the breakdown did not result from operator error, neglect or improper operation or maintenance procedures.

(3) A person burning landfill gas or sewage digester gas, or who is subject to paragraph (d)(4) of this rule may use an alternative monitoring method, in lieu of the requirements in paragraphs (e)(1) and (e)(2), that ensures compliance with the daily total sulfur content limitation as specified in Table 1. Alternative monitoring methods shall not be used unless first approved in

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writing by the Executive Officers of the District, the California Air Resources Board (CARB), and the Regional Administrator of the Environmental Protection Agency (EPA), Region IX, or their designees.

(A) At a minimum, the alternative monitoring method shall meet the guidelines of Attachment A, Section III.

(B) A person subject to (d)(4) of this rule shall submit an alternative monitoring method for approval no later than 45 days after the date a Permit to Construct a sulfur removal system is issued.

(C) All monitoring must comply with the approved alternative monitoring method.

(D) District personnel shall use the approved alternative monitoring method to determine compliance with the limits of this rule.

(~~f~~e) Reporting and Recordkeeping Requirements

(1) All records required by this rule shall be maintained at the facility for at least two years, and be made available to District staff upon request.

(2~~1~~) Except at electric utility generating facilities and refineries, a person burning gaseous fuel, other than exclusively natural gas, in stationary equipment requiring a District Ppermit to Operate, shall submit to the Executive Officer ~~or designee~~ annual reports of the monthly fuel consumption and the total sulfur content of the fuel consumed. The annual~~Such~~ report shall be submitted no later than 60 days following the end of the reporting year, and shall consist of the amount of any gaseous fuel consumed monthly, the applicable hourly, daily or monthly average sulfur content as determined by the continuous monitor or approved alternative monitoring method~~device~~ as specified in paragraphs (~~e~~d)(1), (~~e~~d)(2), or (~~e~~d)(3) of this rule, and total SO_x emissions calculated as SO_2.

(3~~2~~) A person burning gaseous fuel in stationary equipment located at electric utility generating facilities or refineries shall submit to the Executive Officer ~~or designee~~ monthly reports of the daily fuel consumption, the monthly weighted average sulfur content (except for natural gas), and the maximum 4-hour average sulfur content of the fuel consumed, as determined by the device specified in paragraph (~~e~~d)(1~~2~~) of this rule and the total SO_x emissions

calculated as SO_2. The report shall be submitted no later than~~within~~ 30 days following the end of the reporting month.

(4~~3~~) The person operating a continuous monitor shall keep records as specified in clause (e)(2)(B)(i) for monitor breakdown(s)~~The information specified in paragraphs (e)(1) and (e)(2) shall be maintained at the facility for at least two years, and be made available to the District staff upon request~~.

(~~g~~f) Test Methods

The following shall~~may~~ be used by the Executive Officer ~~or designee~~ to verify compliance with the provisions of this rule:

(1) For determination of compliance with sulfur content requirements of subdivision (~~d~~e):

(A) The reference method for determining the concentration of sulfur compounds in a gaseous fuel, calculated as H_2S~~Hydrogen sulfide~~, shall be District Method 307-91 - Determination of Sulfur in a Gaseous Matrix, or any other method demonstrated by the applicant to be equivalent and approved in writing by the Executive Officers of the District, the CARB, and the Regional Administrator of the EPA, Region IX, or their designees, or

(B) Data obtained from a continuous monitor, which is required to be installed and properly operated according to subdivision (~~e~~d) and as approved by the Executive Officer ~~or designee~~ pursuant to the guidelines specified in Attachment A.

(2) The gross heating value of gaseous fuels shall be determined by ASTM Method D 3588-91 or, if applicable, ASTM Method D 4891-89.

(3) The methane content of gaseous fuels shall be determined by ASTM Method D 1945-81.

(~~h~~g) Exemptions

Unless otherwise specified, and provided that the person seeking the exemption supplies proof and verification upon request of applicable criteria to the satisfaction of the Executive Officer~~ or designee~~, the provisions of this rule shall not apply to the following~~ cases~~:

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(1) A person selling, for use in the jurisdiction of the District, any gaseous fuel not complying with paragraphs (de)(1) and~~through~~ (de)(2~~3~~) provided that:

(A) The gaseous fuel is delivered directly to a sulfur removal unit which is in full operation and which reduces the sulfur content to the limits specified in paragraphs (de)(1) and~~through~~ (de)(2~~3~~); and

(B) The seller notifies the Executive Officer ~~or designee~~ prior to any such sale of the quantity, heating value, and composition of the gaseous fuel to be sold; and

(C) The buyer has an approved Permit to Construct and/or Operate for the sulfur removal unit that will be used to treat the purchased gas.

(2) Gaseous fuels containing sulfur used in the production of sulfur or sulfur compounds.

(3) Waste gases being burned provided that:

(A) The gross heating value of such gases is less than 2670 kilocalories per cubic meter (300 British Thermal Units per cubic foot) at standard conditions; and

(B) Any supplemental fuel used to burn such waste gases does not contain sulfur or sulfur compounds in excess of the amount specified in this rule.

(4) Gases being burned from fluidized catalytic cracking unit (FCCU) regenerators subject to District Rule 1105 or Regulation XX.

(5) Gases vented during refinery turnaround pursuant to District Rule 1123 or Regulation XX.

(6) Gases vented to a control system pursuant to District Rule 466 and 1173 or Regulation XX.

(7) Gases vented intermittently to fuel gas or waste disposal system from pressure control valves, sight glasses, compressor bottles, sampling systems, and pump and compressor case vents.

(8) Any facility which emits less than 5 pounds per day total sulfur compounds, calculated as H_2S~~Hydrogen sulfide~~, from the burning of gaseous fuels other than natural gas. Emissions of total sulfur compounds shall be measured based on fuel analysis, using the test method specified in paragraph (gf)(1), and the maximum daily gaseous fuel consumption. This exemption shall not apply to the requirement of paragraph (de)(1).

(9) A person is exempt from the requirements of paragraphs (ed)(1) and (ed)(2) if the person demonstrates to the satisfaction of the Executive Officer ~~or designee~~ that the supplier of the gaseous fuel has complied with the requirements of subdivision (ed) for such fuel.

(10) Until December 31, 1998, a person burning LFG is exempt from the requirements of paragraph (e)(1) and (e)(2) provided that they determine and report the sulfur content of the fuel gas according to the approved Rule 1150.1 Compliance Plan for the landfill providing the LFG. If the person burning LFG elects to use an alternative monitoring method as specified in paragraph (e)(3), the plan or revision to the plan shall be submitted to the District by September 1, 1998 and the sulfur content of the fuel gas shall be determined and reported according to the approved Rule 1150.1 Compliance Plan for the landfill providing the LFG, until plan approval or disapproval~~Until November 17, 1997, any gaseous fuel sold or purchased in a transaction between a RECLAIM SOx facility and a Non RECLAIM SOx facility is exempt from the sulfur content requirements specified in paragraphs (e)(1), (2) and (3), provided that:~~

~~(A) both the buyer and seller of the gaseous fuel submit to the Executive Officer or designee monthly written report of the quantities and daily averages of the total sulfur contents of the gaseous fuel sold to the buyer or purchased from the seller. The daily average of total sulfur contents of gaseous fuels shall be monitored and reported to the District in a manner and format specified by the Executive Officer or designee. Such report shall be submitted within 30 calendar days following the end of the reporting month; and~~

~~(B) the RECLAIM SOx facility reports to the District and includes all SOx emissions generated from the burning of such gaseous fuel, as part of the facility's total SOx emissions pursuant to Rule 2004.~~

(11) On or after July 1, 1997, a person previously in compliance with the limits specified in Table 1 of this rule shall be exempt from the requirements of paragraph (de)(4) provided that: the alternative monitoring method pursuant to paragraph (ed)(3) yields no more than three individual readings in a calendar year in excess of the limits specified in Table 1; that no single

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reading exceeds a fuel sulfur limit by 25 percent~~of 50 ppm~~; and that the sampling frequency is no longer than once per week.

ATTACHMENT A

SECTION I
REQUIREMENTS FOR
CONTINUOUS FUEL GAS MONITORING SYSTEM (CFGMS)

A continuous fuel gas monitor used for determining the sulfur content of any gaseous fuel shall:

(1) Continuously monitor and record the concentration by volume (dry basis) of sulfur compounds in ppmv as H_2S in the gaseous fuel.

(2) Have the span value of the monitor set so that all readings fall between 20 and 95 percent of scale.

(3) Check for calibration drift of the monitoring system at least once daily (approximately 24-hr interval) at two concentrations, one high level and one low level. Whenever the daily high level or low level calibration drift exceeds 5% of analyzer full scale span, the monitoring system shall be deemed to be out of control and subject to the requirements of subparagraph (d)(4)(B) of this rule.

(4) Determine the relative accuracy of the monitor which shall be no greater than 20 percent of the mean value of the reference method test data.

(5) Be able to record negative values of zero drift.

(6) Report the concentration of the sulfur compounds calculated as H_2S~~hydrogen sulfide~~.

SECTION II
REQUIREMENTS FOR
CONTINUOUS EMISSIONS MONITORING SYSTEMS (CEMS)

A stack CEMS used for monitoring the sulfur dioxide emissions from the burning of any gaseous fuel shall:

(1) Continuously monitor and record the concentration by volume (dry basis, zero percent excess air) of sulfur compounds in ppmv as SO_2 emitted into the atmosphere;

(2) Include either an oxygen monitor for correcting the data for excess air or a fuel gas and exhaust gas flowmeter for the determination of mass emissions;

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(3) Have the span value of all the monitors set so that all readings fall between 20 and 95 percent, for four-hour and daily averages, and between 10 and 95 percent, for monthly averages, of full scale;

(4) When using an oxygen monitor for the correction of excess air, be able to measure a sulfur compound concentration emission limit of 5 ppm (dry basis, zero percent excess air), which is stoichiometrically equivalent to the limit of sulfur compound content of 40 ppm calculated as H_2S~~hydrogen sulfide~~ in the gaseous fuels;

(5) Use District Methods 100.1 or 6.1 (as applicable for sulfur compound analysis) and District Method 3.1 (for oxygen content analysis), or District Method 2.1 (for flowrate determination), whichever is applicable, or any other methods demonstrated by the applicant to be equivalent and approved in writing by the Executive Officers of the District and the CARB, and the Regional Administrator of the EPA, Region IX, or their designees, for conducting the relative accuracy evaluations. The relative accuracy limit shall be 1 ppm and zero drift (2-hour and 24-hour) and calibration drift (2-hour and 24-hour) limits for sulfur compounds monitor shall be 5 percent of the span range; and

(6) Check for calibration drift of the monitoring system at least once daily (approximately 24-hr interval) at two concentrations, one high level and one low level. Whenever the daily high level or low level calibration drift exceeds 5% of analyzer full scale span, the monitoring system shall be deemed to be out of control and subject to the requirements of subparagraph (d)(4)(B) of this rule.

(7) Facilities burning fuel gas subject to this rule shall comply with the requirements of Rule 218 except where specific requirements have been incorporated into this rule.

SECTION III
GUIDELINES FOR APPROVAL OF ALTERNATIVE MONITORING PLAN BY THE EXECUTIVE OFFICER

In lieu of a continuous fuel gas monitoring system (CFGMS) or a continuous emission monitoring system (CEMS), a person subject to this rule may submit an alternative monitoring plan to the Executive Officers of the District, the California Air Resources Board (CARB), and the Regional Administrator of the Environmental Protection Agency (EPA), Region IX, or their designees for their~~his~~ review and decision. ~~Submittal of such a plan must~~

~~be at least 180 days prior to the applicable compliance date set forth in Table 1. The Executive Officer or designee shall approve or disapprove of such plan no later than 90 days prior to the applicable compliance date set forth in Table 1 based upon whether the alternative monitoring plan includes all of the following:~~

(1) A test program to determine the correlation between H_2S~~hydrogen sulfide~~ and total sulfur in the fuel gas using District Method 307-91. If a correlation is established, a colorimetric test, or other alternative method approved by the Executive Officer ~~or designee~~ as being equivalent or better in establishing such correlation, may be conducted regularly to determine total sulfur using H_2S~~hydrogen sulfide~~ as a surrogate.

(2) An error analysis between colorimetric, or other approved alternative method readings and the total reduced sulfur analysis obtained from District Method 307-91. To demonstrate equivalency between the two methods of analyses, the relative accuracy shall not exceed 20 percent of average District Method 307-91 readings.

(3) A schedule for a daily or more frequent analysis of the fuel gas for H_2S~~hydrogen sulfide~~ (H_2S) using the colorimetric test, or other approved alternative method, and a minimum weekly analysis of the fuel gas using District Method 307-91. A different frequency of analysis may be used if the Executive Officer ~~or designee~~ determines that such frequency will~~is adequate to~~ ensure compliance with the daily total sulfur limits of this rule.

(4) When the sulfur level is suspected to be at or above the sulfur content requirements of Table 1~~40 ppmv level~~ as determined by the colorimetric or other alternative method, a procedure to obtain at minimum a daily sample to be tested according to District Method 307-91 until three consecutive daily samples show that total sulfur is below the sulfur content requirements of Table 1~~40 ppmv limit~~.

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SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

DRAFT STAFF REPORT FOR

PROPOSED AMENDED RULE 431.1 - SULFUR CONTENT OF GASEOUS FUELS

Dated: April 1998

Office of Stationary Source Compliance

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CHAPTER I

SUMMARY

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A. EXECUTIVE SUMMARY

The purpose of Rule 431.1 - Sulfur Content of Gaseous Fuels is to reduce sulfur oxides (SO_x) emissions from the burning of gaseous fuels in stationary combustion equipment. Rule 431.1 limits total sulfur compounds in gaseous fuels at 40 parts per million by volume (ppmv), calculated as hydrogen sulfide (H_2S). The primary proposed amendments to Rule 431.1 are intended to (a) address State Implementation Plan (SIP) changes recommended by the U.S. Environmental Protection Agency (EPA), (b) provide relief to landfill operators from having to remove sulfur compounds from LFG to the required level of 40 ppmv, since a cost-effective control technology has not been developed, and (c) exempt a person burning LFG from the installation and operation of continuous fuel gas monitoring systems (CFGMS) or continuous emission monitoring systems (CEMS) until December 31, 1998. Additionally, obsolete rule language is proposed to be deleted and for rule clarity, existing rule language is proposed to be revised and a definition added. No new Air Quality Management Plan (AQMP) control measures are being implemented through the proposed amendments. The proposed amendment to raise the sulfur content of LFG from 40 ppmv to 150 ppmv will result in SO_x emissions reductions forgone in the amount of 0.29 ton per day. A more detailed discussion of the SO_x emission increase can be found in Chapter IV of this document.

Facilities subject to Rule 431.1 generally include utilities, oil and gas production facilities, publicly owned treatment works (POTWs) and landfill facilities which produce sewage digester gas and LFG, respectively. The refineries are subject to Regional Clean Air Incentives Market (RECLAIM), and thus are not now required to comply with the existing 40 ppmv total sulfur limit. The refineries are also in the process of having their respective monitoring systems certified by the South Coast Air Quality Management District (AQMD) in compliance with Rule 431.1 and/ or RECLAIM requirements.

LFG consists of moisture, carbon dioxide and light hydrocarbon, mainly methane, with a heat content about half as high as that of refinery gas. Because of the intervening reaction of carbon dioxide with the reagents for removal of sulfur compounds in LFG, the sulfur removal technologies now available in refineries cannot be directly transferred to landfills. After reviewing available techniques, conducting an extended literature search and conducting research demonstration projects for cost-effective technologies to remove sulfur from LFG, some landfill operators have been unable to meet the sulfur limit of 40 ppmv and have obtained regular variances from the AQMD Hearing Board for exceeding the sulfur limit and from installation of continuous monitors to record the sulfur content. CFGMS have only recently become available for use and will require several months for installation and operation. Therefore, landfill operators have requested that the sulfur limit for LFG be raised to 150 ppmv, the limit allowed until July 1, 1997 and extension of the date to install and operate a continuous monitor until the end of 1998.

Staff has reviewed the proposed amendments to Rule 431.1 pursuant to the California Environmental Quality Act (CEQA) and AQMD Rule 110, and has prepared a Draft

Supplemental Environmental Assessment (SEA) that will evaluate the potential significant adverse impacts from the proposed project. The Draft SEA is currently being circulated for a 45-day public review and comment period which ends on May 15, 1998. All comments received on the Draft SEA will be incorporated into the Final SEA for the proposed project.

B. BACKGROUND

Rule 431.1 - Sulfur Content of Gaseous Fuels, was first adopted in November 1977 and was subsequently amended ten different times, with the most recent amendment in November, 1995. The purpose of the rule is to reduce SOx emissions from burning of gaseous fuels in stationary combustion equipment. In order to achieve that, Rule 431.1 imposes limits on total sulfur content of gaseous fuels.

Until January 1982, Rule 431.1 set limits for sulfur compounds in gaseous fuels, except for sewage digester gas and LFG which was not subject to the rule at this time. Gaseous fuels could be sold at 80 parts per million by volume (ppmv) and burned on-site at 800 ppmv. The 1982 amendment set limits for sulfur in sewage digester gas and LFG at 250 ppmv for sale gas and 800 ppmv for burning gas on-site.

At the January 8, 1982 public hearing, the Board instructed staff to investigate whether or not a single limit would be possible for all fuel gases either sold or burned on-site. Staff's investigation indicated that, at the time, refineries experienced excursions in their process gas sulfur content, which approached the 800 ppm level. The May 6, 1983 amendment, therefore, maintained the three different limits: (1) 250 ppmv for landfill and sewage digester gases offered for sale; (2) 80 ppmv for other gaseous fuels offered for sale; and (3) 800 ppmv for all gaseous fuels burned on-site.

The rule was revisited in May 1990 to review the sulfur removal technology and associated costs to implement Control Measure 88-F-2 of the 1989 AQMP. The measure recommended a uniform sulfur limit for both off-site sales and on-site burning. As a result of the investigation, the 1990 amendment was adopted with a uniform sulfur limit of 40 ppmv for off-site sales or on-site burning, with a final compliance date of May 4, 1992. The amendment also required a continuous sulfur fuel monitor to be installed by May 4, 1992. Because a continuous total sulfur monitor was not available in the market and staff investigation showed that an appropriate continuous total sulfur monitor could not be developed in time for the 1992 compliance date, the rule was amended in April 1992 to extend the continuous sulfur monitor requirement for another year. Subsequent amendments were adopted to provide additional time extensions to develop sulfur removal technology and a continuous total sulfur monitoring system, with a final compliance date of May 4, 1994.

The October 1992 amendment also included an extension of the 40-ppmv final compliance date for small refiners from May 1994 to May 1996. This extension was consistent with California Air Resources Board's (CARB's) two-year extension for small refiners to comply with the Phase II Reformulated Gasoline requirements.

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The November 1995 amendments provided a three-year extension for landfills and additional flexibility for other affected facilities to comply with the rule requirements. During the rulemaking process, publicly owned treatment works (POTWs) and landfill operators requested an increase in the averaging period from four hours to longer periods to accommodate for any uncontrolled upsets in the system. A concern was also expressed regarding facilities that had been previously exempt from the rule due to low emissions (five pounds per day sulfur as H_2S) or that had been previously in compliance without any control technology applied. However, due to changes in gas quality, such facilities might become subject to the rule and obligated to install control systems. The POTWs and landfill operators requested that a compliance schedule be incorporated into the rule to avoid immediate violation. Another issue addressed was the consideration of an exemption for certain facilities not subject to Regional Clean Air Incentives Market (RECLAIM), and as such, were subject to the command-and-control limits of Rule 431.1, but which purchased and burned gaseous fuels from a RECLAIM facility. The rule provided for this exemption until November, 1997.

After the amendments were adopted in 1995, the landfill industry completed a detailed search of sulfur control technologies. Only a handful of control systems were found to be technically feasible and were subsequently investigated. Cost-effective analyses revealed a range of $21,000 to $41,100 for large landfills with an H_2S inlet of 60 ppmv and a range of $32,800 to $68,600 for small landfills with an H_2S inlet of 50 ppmv, per ton of sulfur removed. Pilot tests were conducted to confirm these cost estimates. Based upon the available technologies and their cost-effectiveness in treating LFG for sulfur content, staff concluded that the sulfur limit for LFG should be raised to 150 ppmv. A more detailed discussion of the sulfur control technologies can be found in Chapter III of this document.

C. STATEMENT OF FINDINGS

Health and Safety Code Section 40727 requires that prior to adopting, amending or repealing a rule or regulation, the AQMD Governing Board shall make findings of necessity, authority, clarity, consistency, non-duplication, and reference based on relevant information presented at the hearing.

Necessity - The AQMD Governing Board has determined that a need exists to amend Rule 431.1 - Sulfur Content of Gaseous Fuels, for the following reasons:

a. To address SIP changes which have been recommended by the EPA.

b. To increase the allowable sulfur content for LFG from 40 ppmv to 150 ppmv.

c. To exempt a person burning LFG from the installation and operation of continuous monitors until December 31, 1998.

d. To delete obsolete rule language and clarify existing rule language.

Authority - The AQMD Governing Board obtains its authority to adopt, amend or repeal rules and regulations from California Health and Safety Code Sections 39002, 39650, 40000, 40001, 40440, 40441, 40463, 40702, 40725 through 40728, 41508, 41700, and 42300.

Clarity - The AQMD Governing Board has determined that Rule 431.1 - Sulfur Content of Gaseous Fuels, as proposed to be amended, is written or displayed so that its meaning can be easily understood by the persons directly affected by it.

Consistency - The AQMD Governing Board has determined Rule 431.1 - Sulfur Content of Gaseous Fuels, as proposed to be amended, is in harmony with and not in conflict with or contradictory to, existing statutes, court decisions or state or federal regulations.

Non Duplication - The AQMD Governing Board has determined that Rule 431.1 - Sulfur Content of Gaseous Fuels, as proposed to be amended, does not impose the same requirements as any existing state or federal regulations, and the amendments are necessary and proper to execute the powers and duties granted to, and imposed upon, the AQMD.

Reference - The AQMD Governing Board by adopting this regulation is implementing, interpreting or making specific the provisions of: Health and Safety Code Sections 40001 (rules to achieve ambient air quality standards), 40440(a) and (c) (rules to carry out the Air Quality Management Plan and rules which are also cost-effective and efficient), 40702 (rules to execute duties necessary to preserve original intent of rule) and 40910 et seq., (California Clean Air Act).

The proposed amendments to Rule 431.1 are a "project" as defined by CEQA (California Public Resources Code Section 21000 et seq.). The AQMD is the lead agency for the project and is preparing a Draft Supplemental Environmental Assessment (SEA) pursuant to its certified regulatory program (California Public Resources Code Section 21080.5). AQMD's regulatory program, Rule 110, was certified by the Secretary of the Resources Agency on March 1, 1989. The Draft SEA analyzes the potential environmental impacts of the proposed amendments to Rule 431.1, and will be circulated for a 45-day public comment period. All written comments received on the Draft SEA will be addressed and included in the Final SEA.

D. REGULATORY ANALYSIS

Proposed amended Rule 431.1 does not impose a new emission limit or standard, make an existing emission limit or standard more stringent, or impose new or more stringent monitoring, reporting, or recordkeeping. As a result, H & S Code Section 40727.2(g) is applicable, and no written analysis pursuant to 40727.2(a) is required.

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CHAPTER II

PROPOSED AMENDMENTS

CHAPTER II - PROPOSED AMENDMENTS

Proposed amendments to Rule 431.1 are intended to address State Implementation Plan (SIP) changes recommended by the U.S. Environmental Protection Agency (EPA), to increase the allowable sulfur content for LFG from 40 ppmv to 150 ppmv, to exempt a person burning LFG from the installation and operation of continuous monitors until December 31, 1998 and to delete obsolete rule language and clarify existing rule language.

1. PURPOSE

The purpose of the rule has not changed in the proposed amendments. The intent of the rule is to reduce sulfur oxides emissions from the burning of gaseous fuels in stationary equipment. Part of the purpose has been moved to the applicability section.

2. APPLICABILITY

An applicability section has been added to the proposed amended rule language that includes the same types of facilities as the previous amended version of Rule 431.1. The addition of the word "transferring" has been added to include a change in ownership for gaseous fuel.

3. DEFINITIONS

A definition for "continuous monitor" has been added.

4. SULFUR CONTENT REQUIREMENTS

The sulfur content limit for LFG is proposed to be raised from the current 40 parts ppmv to 150 ppmv calculated as H_2S, since a cost-effective control technology has not been developed. Since all landfills currently comply with a 150 ppmv limit, the new compliance date for LFG to meet the amended sulfur content requirement is June 12, 1998. The word "transfer" has been added to paragraphs (d)(1) and (d)(2) to include any change in ownership for gaseous fuel.

5. MONITORING REQUIREMENTS

Any persons burning gaseous fuels, other than exclusively natural gas, are required to install a continuous monitor. The continuous monitor can be either a Continuous Emission Monitoring System (CEMS) or a Continuous Fuel Gas Monitoring System (CFGMS). A person burning LFG or sewage digester gas, or is subject to paragraph (d)(4), may elect to use an alternative monitoring method that has been approved by the Executive Officers of the District, the California Air Resources Board (CARB), and the Regional Administrator of the Environmental Protection Agency (EPA), Region IX, or their designees.

Some sections of the monitoring requirements have been deleted and rewritten into the proposed amendments for rule clarity.

6. EXEMPTIONS

The exemption allowing any gaseous fuel, sold or purchased in a transaction between a RECLAIM SO_x facility and a Non RECLAIM SO_x facility, to be exempt from the sulfur content requirements, expired November 17, 1997 and is proposed to be deleted.

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CHAPTER II - PROPOSED AMENDMENTS

An exemption is proposed that would allow a person burning LFG to have through December 31, 1998 to install and operate a continuous monitor and meanwhile, use their approved Rule 1150.1 Compliance Plan for the determination and reporting of the sulfur content in the LFG. In addition a person burning LFG has the option of using an approved alternative monitoring method instead of a continuous monitor. The alternative monitoring plan is required to be submitted by September 1, 1998 and during the approval or disapproval process, determination and reporting of the sulfur content in the LFG will be through the use of the approved Rule 1150.1 Compliance Plan.

CHAPTER III

CONTROL TECHNOLOGY ASSESSMENT

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A landfill industry group was formed to study available technologies and to install several research demonstration projects in an attempt to find a cost-effective control technology to remove sulfur from LFG. The landfill working group included both public and private landfill operators in the basin and was spearheaded by the County Sanitation Districts of Los Angeles County (LACSD). The project is referred to as the Extension Project.

A. Project Description

The project consisted of:

1. A world-wide study of sulfur control technologies for landfill and digester gases.
2. A review of the cost-effectiveness of sulfur control technologies with actual commercial experience.
3. A review of existing sulfur control regulations throughout the United States.
4. A LFG generation investigation from different geological formations and the effect of well-water on H_2S production.
5. Pilot testing a variety of sulfur removal systems explained below including: Lo-Cat, Enviro-scrub, carbon adsorption, iron sponge, biofiltration, Hiperion, and a variety of different scrubber solutions and packing media.

a. Liquid-Phase Irreversible Reaction.

The process has several commercial names, such as, Enviro-Scrub, Sulfa Guard, Gas Treat 114, Sulfu-Rid, etc. The process consists of a reaction of an alkanolamine triazine, which selectively removes H_2S from a gas stream containing CO_2. The reaction products are in liquid form. The spent triazine is normally not regeneratable. Recent testing of Enviro-Scrub on LFG shows excessive organic sulfides concentration in the spent solution, rendering it unsuitable for sewer disposal. Presently, the manufacturer is studying the possible batch regeneration and reuse of spent solution. This process has been used in refineries and chemical plants, and as a gas sweetening agent at gas/oil well sites.

b. Lo-Cat process

The Lo-Cat process is a liquid oxidation of sulfur in H_2S by an iron catalyst (in ferric form) to produce an elemental sulfur. The elemental sulfur settles in the slurry which can be concentrated and removed from the bottom of the absorber. The reduced iron in the catalyst is regenerated by exposing to air, where oxygen oxidizes it back to the ferric form. The chemical reaction is shown below:

Absorption:

$$H_2S(gas) + H_2O(liq) \text{<----->} H_2S(liq) + H_2O(liq)$$

$$H_2S(liq) \text{ <Ionization> } 2H^+ + S^=$$

$$S^= + 2Fe^{+++} \text{ <Oxidation> } S + 2Fe^{++}$$

Catalyst Regeneration:

$$1/2O_2 + H_2O + 2Fe^{++} \text{ <AIR> } 2OH^- + 2Fe^{+++}$$

Overall Reaction:

$$H_2S(gas) + O_2(gas) \text{ ----> } H_2O + S$$

The Lo-Cat process used at the Los Angeles City Hyperion Sewage Treatment Plant reduces sulfur levels to less than the 40 ppm limit.

c. Hiperion Process

The Hiperion process is a wet scrubbing process using naphthaquinone chelate catalyst. The process consists of a reaction of naphthaquinone with H_2S, forming elemental sulfur. The hydroquinone chelate is then air-oxidized back to quinone chelate and water. The elemental sulfur is removed by filtration. The process can operate over a wide range of CO_2 concentrations in the gas, however, the presence of CO_2 lowers the H_2S removal efficiency.

d. Carbon Adsorption Process

The carbon system consists of a catalytic action of activated carbon impregnated with a hydroxide (sodium, or potassium hydroxide), to promote oxidation of H_2S to elemental sulfur. The activated carbon provides contact surface for H_2S adsorption. The elemental sulfur is removed by solvent extraction and the regenerated carbon is reused until its removal capacity is exhausted.

e. Iron Sponge

The iron sponge process is a dry bed oxidation process using wood chips impregnated with hydrated iron oxide and sodium carbonate for pH control. The iron oxide reacts with hydrogen sulfide and oxygen in air, forming elemental sulfur, which remains in the sponge. The process, however, causes caking of the bed resulting in high pressure drop across the bed. The process removes hydrogen sulfide but not carbon dioxide. The main drawback in the process is that the used sponge may be treated as hazardous if not processed properly. The used sponge is processed by spreading it on the ground and exposing it to the air for a period of at least 10 days, with intermittent watering within the 10-day period. This process is now used in fuel gas sweetening by the natural gas processing industry, typically at pressures higher than atmospheric.

f. Biofiltration

The process consists of a reaction of micro-organisms that convert hydrogen sulfide to sulfur compounds of higher oxidation state. Water is recirculated through the bioreactor to maintain proper moisture levels to provide nutrients and control the accumulation of metabolic products. Air is required for the biological oxidation reaction. The pH of the bioreactor is controlled by purging the circulation liquid with clean water.

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B. Project Summary

The study identified 78 sulfur removal processes, of which only a few were found to be technically feasible and thus considered for further investigation and pilot testing. A world-wide literature search utilized the DIALOG Information Retrieval Services. Each technology was screened for commercial availability and applicability, process selectivity for H_2S, not CO_2, hazardous waste generation, and potential technology transfer to LFG. All but several of the sulfur removal processes were eliminated. Cost-effectiveness was then evaluated using site specific parameters.

A nationwide review of regulations was conducted to determine if any federal, state, or regional agencies were currently regulating fuel sulfur content. Sixty nine agencies were contacted, of which only 15 were found to have regulations limiting the sulfur content of gaseous fuels. None of the agencies specifically regulate sulfur in the context of LFG and digester gas. The agency with the lowest sulfur limit for gaseous fuels is SCAQMD at 40 ppmv and proposed 150 ppmv for LFG, with the next lowest sulfur limit imposed by the New Hampshire Department of Environmental Services at 80 ppmv for gaseous fuels but not specifically LFG. The only other California agencies regulating the sulfur limit of gaseous fuels is Santa Barbara County Air Pollution Control District and Ventura County Air Pollution Control District. Both agencies limit the sulfur content of gaseous fuels at 240 ppmv.

A variety of research activities were conducted to study different sulfur removal systems. A packed tower scrubber pilot system was installed at the Sanitation District's Puente Hills landfill to study the following issues: the feasibility and cost-effectiveness of various chemical scrubbing solutions; chemical injection vats and spent solution disposal; and potential operational problems with packed tower scrubbing systems. Enviro-scrub, Hiperion, Sulfa-Guard, and Lo-Cat Chemicals are all similar in that they are non-regenerative iron-based amine and triazine solutions that selectively react with H_2S in the presence of CO_2. In addition, various types of activated carbon including KOH impregnated carbon, NaOH impregnated carbon, regular vapor phase carbon, and regenerated KOH carbon were each tested during the pilot phase.

An operational Lo-Cat sulfur removal system was installed on the Coyote Canyon LFG fired boiler. The system was designed for 350 standard cubic feet per minute (scfm) and included a venturi eductor with reservoir tank, a pump, oxygenator, blower, two filters, and a demister. The treated gas was burned in the boiler. The results revealed chemical carryover into the boiler. Laidlaw, the boiler owner/operator, was not willing to participate with additional testing due to the corrosive nature of the boiler deposits.

C. Conclusion

The landfill industry completed a detailed search of sulfur control technologies. The results of the research project was reviewed by staff and can be found in the tables at the end of this chapter. Only a handful of control systems were found to be technically feasible and further investigated. Cost-effective analyses revealed a range of $21,000 to $41,100 for large landfills with an H_2S inlet of 60 ppmv and a range of $32,800 to $68,600 for small landfills with an H_2S inlet of 50 ppmv, per ton of sulfur removed. Pilot tests were conducted to confirm these cost

estimates. The average sulfur content of LFG for landfills subject to Rule 431.1 is 45.9 ppmv (see Table 1, Chapter IV). For comparison, permit applications subject to a cost-effectiveness analysis do not require best available control technology (BACT) if the cost is greater than $18,300 per ton of SO_x removed. Additionally, process numbers 2 and 7 could not be used because waste disposal of spent chemicals and non-regenerative carbon were found to present cross-media environmental problems.

Sulfur carryover from the Lo-Cat pilot plant caused excessive boiler tube deposits due to a faulty mist eliminator. The project was therefore terminated. The discovery of this problem brought up the possibility that any of these solutions may be subject to some degree of sulfur carryover which could result in a costly problem for LFG combustion equipment.

D. Recommendation

As new or innovative sulfur control technologies become available their applicability to the cost-effective reduction of sulfur in LFG should be determined. The landfill industry may be required to further evaluate these improvements in the future. Based upon the available technologies and their cost-effectiveness in treating LFG for sulfur content, the amendments to Rule 431.1 are recommended for adoption.

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SCAQMD RULE 431.1 RESEARCH PROJECT
Landfill Gas Desulfurization Processes[1] (Large Landfill Economics[2])

Process (Vendor)	Process Description	Major Process Equipment (Operating & Spares)	PEC Purchased Equipment Costs, $	DIC[3] Direct Installation Costs, $	TDC Total Direct Costs, $	IIC Indirect Installation Costs, $	TCI Total Capital Investment, $	Annual Chemical Cost $/yr[3]	Annual Utility Cost $/yr[4]	DAC Direct Annual Cost $/yr[3]	IAC Indirect Annual Cost $/yr[3]	TAC Total Annual Cost $/yr[3]	H_2S Inlet Cost-Effectiveness ($/Ton of reduced SO_2) 120 ppmv	100 ppmv	80 ppmv	60 ppmv
1. Biofilter (Envirogen)	BIO-Oxidation of H_2S to SO_3^{-2} + SO_4^{-2} in inert media coated with a aerobic aqueous film culture of sulfur-oxidizing bacteria, with aeration of circulating water	-One packed bed -Three 100 bhp air blowers -Two 145 bhp LFG blowers	1,993,000	1,017,000	3,010,000	618,000	3,628,000	57,600	26,800	154,000	719,000	873,000	7,460	9,500	13,200	21,900
2. Caustic-impregnated activated carbon (Cameron-Yakima, Inc)	Adsorption of H_2S onto carbon bed and reaction with caustic to form sulfides (off-site regeneration)	-Five modular 8,000 lb. bin packed bed units -Two 145 bhp LFG blowers	264,000	278,000	562,000	86,000	650,000	646,000	65,000	745,000	145,000	890,000	8,160	8,880	10,300	14200
3. EnviroScrub-SulfaScrub (Quaker Petroleum Co.)	Liquid absorption and irreversible reaction of H_2S with aqueous triazines solution to form non-regenerable spent solution.	-Two 5 bhp transfer pumps -Two 6,000 gal. atm. storage tanks -Two venturi scrubbers with vapor-liquid separators -Two packed columns 8' dia x 27' 6" S/S -Three 200 bhp venturi circulation pumps + three 20 bhp col. cir. pumps	NAS[5]	NAS	1,151,000	242,000	1,393,000	1,704,000	176,000	2,142,000	288,000	2,430,000	20,300	21,500	23,600	28600
4. Hiperion (Quinon)	Liquid absorption and oxidation of H_2S to S with aqueous regenerable solution and removal of S by filtration	-Two 5,000 gal. atm. storage tanks -One catalyst makeup tank-2,000 gallon -One 12' dia. settler tank -One 250 gal. antifoam tank -One 14' dia. x 30' S/S packed column -Two 200 bhp sol. cir. pumps -One condensate k.o. drum -One 350 bhp booster fan -One filter press	NAS	NAS	1,476,000	278,000	1,754,000	251,000	230,000	536,000	358,000	894,000	7,470	9,400	12,900	21000
5. Iron oxide-impregnated wood chips (Sponge) (Perry Gas Companies, Inc.)	Adsorption of H_2S onto iron oxide-impregnated wood chips with oxidation (regeneration) by air of Fe_2S_3 to S and Fe_2O_3.	-Twenty packed bed vessels 10' dia. x 12' S/S ea. -Four rotary lobe blowers, 384 bhp ea.	1,862,000	1,168,000	3,030,000	577,000	3,607,000	183,000	490,000	706,000	715,000	1,421,000	12,800	16,200	22,700	41100
6. Lo-Cat II (Wheelabrator Clean Air Systems, Inc.)	Liquid absorption by aqueous chelated iron-solution, which is regenerated by air oxidation to produce S, which is removed by filtration.	-One integral separator with 2 venturi absorbers -One bag filter -Two atm. air blowers -Three 205 bhp cir. pumps -One filtrate return pump -Two chemical addition skids with pumps and tanks	1,127,000	1,093,000	2,220,000	354,000	2,574,000	182,000	175,000	226,000	516,000	742,000	6,200	9,920	13,800	23000
7. Sulfa Treat (The Sulfa Treat Co.)	Adsorption and irreversible reaction of H_2S onto packed bed of metallic oxide granules to form nonregenerable spent product.	-Four 15' dia. x 30' adsorber vessels -Four rotary lobe blowers, 781 bhp ea.	1,348,000	1,321,000	2,669,000	418,000	3,067,000	329,000	1,048,000	1,410,000	615,000	2,025,000	19,000	24,500	35,000	66900

[1] Maximum design conditions = 30,000 scfm of LFG, containing 60-120 ppmv S (as H_2S) @ - 115 inches H_2O (vacuum)
[2] All costs based on add-on desulfurization units in existing landfill gas handling systems
[3] DIC = Direct installation costs include site preparation costs
[4] yr = All annual costs apply to 120 ppmv inlet S (as H_2S) maximum design case
[5] NAS = Not available separately

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SCAQMD RULE 431.1 RESEARCH PROJECT
Landfill Gas Desulfurization Processes[6] (Small Landfill Economics[7])

Process (Vendor)	Process Description	Major Process Equipment (Operating & Spares)	PEC Purchased Equipment Costs, $	DIC[1] Direct Installation Costs, $[2]	TDC Total Direct Costs, $	IIC Indirect Installation Costs, $	TCI Total Capital Investment, $	Annual Chemical Cost $/yr[3]	Annual Utility Cost $/yr[3]	DAC Direct Annual Cost $/yr[3]	IAC Indirect Annual Cost $/yr[3]	TAC Total Annual Cost $/yr[3]	50 ppmv Total S Inlet Cost-Effectiveness ($/Ton of reduced SO_2)
1 Biofilter (Envirogen)	BIO-Oxidation of H_2S to SO_3^{-2} + SO_4^{-2} in inert media coated with a aerobic aqueous film culture of sulfur-oxidizing bacteria, with aeration of circulating water	-One packed bed -Two air blowers -Two LFG blowers	589,000	578,000	1,167,000	183,000	1,350,000	11,800	5,800	58,000	281,000	339,000	58,900
2 Caustic-impregnated activated carbon (Cameron-Yakima, Inc)	Adsorption of H_2S onto carbon bed and reaction with caustic to form sulfides (off-site regeneration)	-Two modular 4,000 lb. bin packed bed units -Two 57 bhp LFG blowers	75,200	76,800	152,000	20,000	172,000	44,100	24,200	102,000	53,000	155,000	35,900
3 EnviroScrub-SulfaScrub (Quaker Petroleum Co.)	Liquid absorption and irreversible reaction of H_2S with aqueous triazines solution to form non-regenerable spent solution.	-Two transfer pumps -Two atm. storage tanks -Two venturi scrubbers with vapor-liquid separators -Two packed columns -Three venturi circulation pumps + three col. cir. pumps	NAS[4]	NAS	277,000	58,000	335,000	69,700	38,100	141,000	85,000	226,000	52,400
4 Hiperion (Quinon)	Liquid absorption and oxidation of H_2S to S with aqueous regenerable solution and removal of S by filtration	-Two atm. storage tanks -One catalyst makeup tank -One settler tank -One antifoam tank -One packed column -Two solution circulating. pumps -One condensate k.o. drum -One booster fan -One filter press	NAS	NAS	651,000	113,000	764,000	42,000	49,800	129,000	167,000	296,000	68,600
5 Iron oxide-impregnated wood chips (Sponge) (Perry Gas Companies, Inc.)	Adsorption of H_2S onto iron oxide-impregnated wood chips with oxidation (regeneration) by air of Fe_2S_3 to S and Fe_2O_3.	-Three packed bed vessels 10' dia. x 12' S/S ea. -Two rotary lobe blowers, 102 bhp ea.	196,000	222,000	418,000	61,000	479,000	7,600	43,300	84,000	113,000	197,000	45,500
6 Lo-Cat II (Wheelabrator Clean Air Systems, Inc.)	Liquid absorption by aqueous chelated iron solution, which is regenerated by air oxidation to produce S, which is removed by filtration.	-One integral separator with 2 venturi absorbers -One bag filter -Two atm. air blowers -Three circulating pumps -One filtrate return pump -Two chemical addition skids with pumps and tanks	274,000	269,000	543,000	85,000	628,000	700	23,400	58,000	141,000	199,000	46,000
7 Sulfa Treat (The Sulfa Treat Co.)	Adsorption and irreversible reaction of H_2S onto packed bed of metallic oxide granules to form nonregenerable spent product.	-Four 11' 3"dia. x 10' S/S adsorber vessels	87,800	86,000	173,800	27,200	201,000	17,900	24,200	80,000	62,000	142,000	32,800

[1] Maximum design conditions = 6,500 scfm of LFG, containing 50 ppmv S (as H_2S) @ 5 psig and 130°F, 30-40% CH_4, 30-40% CO_2, and 25-35% air
[2] All costs based on add-on desulfurization units in existing landfill gas handling systems
[3] DIC = Direct installation costs include site preparation costs
[4] NAS = Not available separately

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CHAPTER IV

EMISSION IMPACTS

CHAPTER IV - EMISSION IMPACTS

The proposed amendment to raise the allowable sulfur content of LFG from 40 ppmv to 150 ppmv will result in emissions reduction forgone of 0.29 ton per day SO_x emissions. The sulfur content emissions were calculated using current data shown in column 3, Table 1, from landfills subject to Rule 431.1. If all landfill operators subject to the rule could raise the sulfur content of their LFG to 150 ppmv, the proposed amendment would result in a worst case of 0.73 ton per day SO_x reduction foregone. However, since this is not possible the actual estimate of 0.29 ton per day is most realistic. Exempt sources are included in Table 1 showing their sulfur content in the LFG, but their emissions are not included in the calculation.

Table 1

LANDFILL	FLOW RATE (MMCFD)	ACTUAL H2S (PPM)	ACTUAL MASS (LB/DAY)	40 PPM MASS (LB/DAY)	150 PPM MASS (LB/DAY)
		Exempt from 431.1			
ELSINORE	0.1	6.4	0.06	0.36	1.35
CORONA	0.43	13.1	0.51	1.54	5.79
WEST RIVERSIDE	0.317	19.5	0.55	1.14	4.27
SAVAGE	1.43	5.263	0.68	5.13	19.24
EL SOBRANTE	1.08	12	1.16	3.88	14.53
MOUNTAINGATE	2.8	5	1.26	10.05	37.68
SANTIAGO	2.95	12.2	3.23	10.59	39.70
COLTON	2.67	15	3.59	9.58	35.93
MILLIKEN	4.48	10	4.02	18.08	60.28
MID-VALLEY	2.28	20	4.09	8.18	30.68
HEWITT PITT	0.96	20	1.72	3.44	12.92
MEAD VALLEY	0.494	9.3	0.41	33.37	125.15
MISSION CYN.#8 *					
RIO HONDO COLLEGE**					
DOUBLE BUTTE	0.403	30.8	1.11	1.45	5.42
WHITTIER	1.43	5.3	0.68	5.13	19.24
WATSON BIOGAS	0.43	33	1.27	1.54	5.79
MISSION CYN.#1-3	1.01	7.8	0.71	3.62	13.59
SAN TIMOTEO	0.45	0.78	0.03	1.61	6.06
SHERATON	0.216	14.4	0.28	0.78	2.91
KASIER FOUNDATION			1.00		
UPLAND	0.183	0.0015	0.00	0.58	2.19
BURBANK CITY	0.28	20	0.50	1.00	3.77
CARSON ESTATES	0.43	6	0.23	1.54	5.79
CARSON TOWN CTR.	0.19	0	0.00	0.68	2.56
SYUFY ENTER.	0.43	11	0.42	1.54	5.79
FORD LEASING	0.14	0	0.00	0.50	1.88
PICK PART (SUN VALLEY)	0.33	18	0.53	1.18	4.44
PICK PART (WILM.)			3.00		

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LANDFILL	FLOW RATE (MMCFD)	ACTUAL H2S (PPM)	ACTUAL MASS (LB/DAY)	40 PPM MASS (LB/DAY)	150 PPM MASS (LB/DAY)
		Subject to 431.1			
TOYON	2.73	25.1	6.15	9.80	36.74
PRIMA DESHECHA	2	44.4	7.97	7.18	26.91
BOWERMAN	2.53	38	8.62	9.08	34.04
AZUSA	2.4	41.8	9.00	8.61	32.30
LOPEZ	7.2	20	12.92	25.84	96.89
PENROSE	2	75.5	13.55	7.18	26.91
OLINDA	5.3	29	13.79	19.02	71.32
ROLLING HILLS	10	17	15.25	35.88	134.56
SCHOLL	10.45	16.7	15.66	37.50	140.62
CHIQUITA	2.5	90	20.18	8.97	33.64
SPADRA	6.24	36.6	20.49	22.39	83.97
SUNSHINE	3.5	79.4	24.93	12.56	47.10
BRADLEY	3.5	80	25.12	12.56	47.10
CALABASIS	9.9	35.7	31.71	35.53	133.22
COYOTE	6:34	57.3	32.59	22.75	85.31
BKK	30.51	23.7	64.87	109.48	410.56
PUENTE HILLS	40.71	70.7	258.20	146.08	547.81
Totals		780.9	580.99	530.40	1989.00

* The flow rate,ectual H_2S, and actual mass are included in the Mountaingate deta.
** The flow rate, ectual H_2S, and actual mass are included in the Puente Hills data.

CHAPTER V

SOCIOECONOMIC ASSESSMENT AND COST-EFFECTIVENESS

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CHAPTER V - SOCIOECONOMIC ASSESSMENT AND COST-EFFECTIVENESS

Proposed amendments to Rule 431.1--Sulfur Content of Gaseous Fuels--address SIP deficiencies, adjust the sulfur limit of landfill gases (LFG) to reflect the present technology trend, and extend the compliance date for emission monitoring requirements.

The proposed amendments will affect sellers, treaters, and users of LFG. Owners of landfills may play a single role (being a seller) or multiple roles (e.g., being a seller and treater) in the process. Out of the 17 landfills subject to the proposed amendments, four are in Los Angeles County and 13 in Orange County. They all belong to SIC 4953 (Refuse Systems). Moreover, facilities which treat or use landfill gases can also be subject to the proposed amendments.

Facilities which are unable to meet the current sulfur limit of 40 ppmv have been operating under AQMD variances, which also relieves them from the monitoring requirements. Under the proposed amendments, these facilities will use Rule 1150.1 compliance plans for the monitoring requirements of Rule 431.1 until their Rule 431.1 monitoring systems are in place. The proposed amendments extend the compliance date for installation and operation of continuous monitoring systems at landfills until December 31, 1998. No additional control cost is expected from relaxation of the existing sulfur limit of 40 ppmv to the proposed sulfur limit of 150 ppmv.

On October 14, 1994, the AQMD Governing Board adopted a resolution that requires staff to address whether proposed rules being considered for adoption are being presented in the order of cost effectiveness as defined in the AQMP. The proposed amendments to Rule 431.1 are not part of the 1997 AQMP. Instead, the amendments are intended to address U.S. EPA requirements and provide relief to affected facilities.

Health and Safety Code Section 40920.6 requires an incremental cost-effectiveness analysis for one or more potential control options which would achieve the emission reduction objective in the proposed regulation. The proposed amendments do not require new control and instead are projected to result in a slight increase in SOx emissions. An incremental cost-effectiveness analysis is, therefore, not required.

CHAPTER VI

COMMENTS AND RESPONSES

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During the rule making process, both oral and written questions, comments, and suggestions have been reviewed by staff and summarized in this section. Staff has only responded to similar questions one time.

A. EPA COMMENTS

B. CARB COMMENTS

C. PUBLIC COMMENTS

1. Comments submitted by County Sanitation Districts of Los Angeles County:

Comment: During the Public Workshop presentation, Mr. Dan Russell indicated that landfill operators without a South Coast Air Quality Management District (SCAQMD), California Air Resources Board (CARB), and Environmental Protection Agency (EPA) approved alternative monitoring plan would need to obtain a variance in July. Mr. Russell, with William Thompson's clarification, explained that the SCAQMD legal department would not support landfill operators using unapproved alternative monitoring plans to show compliance. The Sanitation Districts agree, and in no way suggested the use of our unapproved alternative monitoring plans for compliance. Instead, we expected that landfill operators would be required to obtain landfill gas sulfur samples in accordance with their proposed Rule 1150.1 Compliance Plan, as would be the case for operators of continuous fuel gas monitoring systems (CFGMS) under the current proposal. The Sanitation Districts understand that the SCAQMD legal department is averse to providing more time to obtain approval for alternative monitoring plans. However, we believe that the SCAQMD legal department may be unaware of a critical issue.

In 1992, landfill operators submitted alternative monitoring plans in accordance with Rule 431.1. These original plans were developed with a 40-ppm limit in mind. In the following years, the plans were updated and revised to reflect new understandings between staff and industry, yet the 40-ppm limit monitoring strategy remained essentially intact. However, the fuel-sulfur limit is proposed to increase from 40 ppm to 150 ppm, making some of the 40-ppm plans obsolete. As a result, some of the old plans may need to be revised or updated - a monitoring strategy for a 40-ppm limit is different than for a 150-ppm limit. Since some plans may need revision, it is reasonable to provide additional time for SCAQMD, CARB, and EPA review of the revisions. We, therefore, recommend that subparagraph (h)(10) be revised to include an extension for all landfills, regardless of the monitoring strategy. Proposed rule language could read, as follows.

> (10) Prior to December 31, 1998, a person burning LFG is exempt from the requirements of paragraph (e)~~(1) and (e)(2)~~ and shall determine and report the sulfur content of the fuel gas according to the proposed or approved Rule 1150.1 Compliance Plan for that landfill.

Response: Staff agrees with your comment and have revised paragraph (h)(10) requiring alternative monitoring plans or revisions to existing plans to be submitted by

September 1, 1998. During the approval or dissapproval process persons burning LFG are required to use the approved 1150.1 compliance plan to determine and report the sulfur content of the LFG.

Comment: As we proposed above, the Sanitation Districts do not believe that subparagraph (h)(10) should be written to include the exclusive use of "approved" plans. None of the four Sanitation Districts' Rule 1150.1 Compliance Plans are approved. In addition, we do not believe many, if any, other landfill operators have received SCAQMD approval for their plans. As a result, the proposed exemption may not be available. For example, the exemption was written to grant relief for one particular site where a CFGMS was installed, but is not yet operational - installation of the data acquisition and handling system (DAHS) has proven more difficult than expected. However, the site in question does not have an "approved" Rule 1150.1 Compliance Plan, and never has. As a result, upon rule adoption, the site will be in violation of the rule unless a variance has been issued. The same is true for all other sites with an as yet approved alternative monitoring plan, As we understand, the proposed amendments to Rule 431.1 were made to address the high cost of sulfur control systems and eliminate future trips to the Hearing Board. We believe this is better accomplished with the addition of "proposed", as shown above.

Response: *All operators of landfills have received an approved Rule 1150.1 compliance plan. Operations continually change at landfills and require alterations to the approved plans. Some operators may have submitted alterations to their plans and have not received approval for the alteration. However, since all landfills have received an approved Rule 1150.1 Compliance Plan and as long as the approved plan is used to monitor the sulfur content of LFG, a variance is not necessary.*

Comment: Attachment A, Sections I and II, includes a proposal to add "minimum" to the section headings. When we posed the question regarding the intent of the addition at the Public Workshop, you indicated that the addition of "minimum" would allow the use of alternative technologies.

First, the Sanitation Districts do not believe that the use of alternative technologies will increase if "minimum" is included. On the contrary - the addition of "minimum" hints to the imposition of other, yet to be determined requirements, greatly increasing the risk associated with the development and installation of new technologies, producing the opposite effect. Whereas, with the current language, a CFGMS, for instance, need only meet the six requirements specified in Section I.

Secondly, the proposal allows the SCAQMD to stipulate any other condition to the approval of a CFGMS. The Sanitation Districts purchased two CFGMS, requiring the vendor to meet the specifications in Section I. Now that "minimum" is added to Section I, SCAQMD staff could require a list of additional requirements prior to granting final approval. The requirements in Attachment A were clearly defined to provide affected industries with a fixed set of conditions necessary to receive SCAQMD approval. With the addition of "minimum", however, the clarity provided in past rulemakings is lost.

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Due to the potentially limitless boundary associated with "minimum" and that the proposed rule language may actually hinder the development and installation of alternative technologies as discussed above, the Sanitation Districts recommend that "minimum" be deleted.

Response: Staff has revised the proposed amendments to delete the word "minimum" in Attachment A, Sections I and II.

Comment: Subparagraph (d)(5) allows the use of an Optional Facility Compliance Plan (OFCP) provided SO_x continuous emissions monitoring systems (CEMS) are incorporated. The Sanitation Districts appreciate the inclusion of the OFCP, however, we believe the same should be available to facilities that monitor each common fuel source with a CFGMS. For example, most landfills collect landfill gas from a variety of locations and mix the gas prior to combustion, in effect, averaging the sulfur levels over the entire landfill. On the other hand, some sites cannot mix the gas due to a variety of reasons and combust the gas in different gas management facilities. For these sites, each individual source must meet the sulfur level limit, creating an inequity with those sites that can mix the gas and take advantage of averaging. As we mentioned at the Public Workshop, The Sanitation Districts believe that fuel gas averaging should be available where CFGMS are used. However, this may not need to be included in specific rule language. A brief discussion in the Staff Report describing the availability of fuel-gas averaging under alternative monitoring plans would suffice.

Response: The Optional Facility Compliance Plan (OFCP) specifically allows a person to achieve equivalent SO_x emission reductions within the facility in place of complying with the emission limits of the rule for combustion equipment. In other words, the OFCP allows for averaging of the facility SO_x emissions, if that facility uses CEMS data to calculate the total emissions. Currently there are no CFGMS installed at a landfill to determine whether equivalency can be achieved with the sulfur content requirements of the rule. However, staff would not be adverse to a person using a CFGMS to average the total sulfur content at the facility.

2. Comments submitted by BFI:

Comment: BFI understands that the County Sanitation Districts of Los Angeles County (Sanitation Districts) has submitted wtitten comments to you and we are in receipt of those comments. BFI also wishes to express our support for many of the proposals discussed at the workshop. In addition, the areas of concern expressed by the Sanitation Districts are similar to those of BFI. We would like to go on record concurring with those same issues raised by the Sanitation Districts.

Response: Responses to the Sanitation Districts comments may be found above.

3. Comments submitted by Ogden Power Pacific, Inc. (OPPI):

Comment: Ogden Power Pacific requests that another exemption be added to the amendments. Specifically, OPPI asks that paragraph (h)(10) be revised to include paragraph (e)(3) as follows:

> Prior to December 31, 1998, a person burning LFG is exempt from the requirements of paragraph (e)(1), (e)(2), and (e)(3), and shall determine and report the sulfur content of the fuel gas according to the approved Rule 1150.1 Compliance Plan for that landfill.

As you are aware, OPPI operates two landfill gas conversion facilities that currently have variances from Rule 431.1. Part of the variance covers the monitoring of the landfill gas while an alternative monitoring plan is approved by the District, CARB, and the EPA. Since, through no fault of OPPI, this plan will not be approved prior to the expiration of the variance, we think it is fair for the District to provide an exemption from monitoring rather than making us seek a variance extension.

Response: Your comment is similar to one submitted by the County Sanitation Districts of Los Angeles County. The proposed amendments have been revised to address your concern.

4. Comments submitted by Chevron Products Company:

Comment: Chevron is happy to report that we are very close to being fully certified under RECLAIM; however, we still have some concerns about Proposed Rule 431.1, regardless of our certification status.

Rule 431.1 Regulatory History

Rule 431.1, May 1990, amendments included 1) a sulfur limit of 40 ppm and 2) a requirement to continuously monitor the total sulfur in the fuel gas or the SO_2 emissions at the stack. The effective date for those amendments was May 4, 1992. This compliance date was subsequently extended to May 4, 1994 in October 1992 amendments.

With the adoption of RECLAIM in October 1993, RECLAIM SO_x facilities [see attached Rule 431.1(c)(10) definition] did not have to comply with Rule 431.1 [see attached Rule 2001(j), Rule 2001 Table 2, and Rule 431.1(c)(3) Table 1]. It should be noted that the exemption for RECLAIM SO_x facilities is unconditional, i.e., there is no exception made for RECLAIM facilities pending final certification or for non-RECLAIM sources at RECLAIM SO_x facilities.

Gas Flares

Gas flares are specifically exempt under RECLAIM. All refineries in the District are RECLAIM facilities and gas flares are an integral part of refineries. For safety reasons, gas flares are purged to maintain positive pressure to prevent a very dangerous explosive situation if air is allowed to enter the flare. Purge gases are generally natural gas, nitrogen, or refinery fuel gas. These gases are ignited as they pass the pilot flame.

As noted above, gas flares are exempt under RECLAIM. Additionally, Rule 431.1 exempts RECLAIM SO_x facilities and gas flares are part of RECLAIM facilities. Rule 431.1 proposed amendments would eliminate the dates for the sulfur standards, thereby eliminating the clear connection between Rule 431.1 and Rule 2001(j) and their respective exemptions. This would

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remove the "protection" provided to RECLAIM facilities for the period before final certification. For RECLAIM certified facilities, it would create uncertainty as to the applicability of Rule 431.1 to non-RECLAIM sources at RECLAIM facilities, such as gas flares.

Cost-effective Calculations

If it is the intent of the District to apply Rule 431.1 to RECLAIM SO_x facilities until final certification, or to non-RECLAIM sources at RECLAIM facilities, state law requires a cost-effectiveness analysis for control technologies to remove sulfur compounds from fuel gas at these facilities. Finally, please note that since gas flares are safety devices, refinery fuel gas is typically used as backup to natural gas or nitrogen purge systems. So the cost-effectiveness analysis must also include this scenario.

Response: Staff appreciates your concern and since it was not our intention to change this part of the rule language, existing language has been replaced to address your concern. However, staff disagrees with your interpretation that non-RECLAIM sources at RECLAIM facilities are exempt from Rule 431.1. However, this is not a Rule 431.1 issue, but a RECLAIM issue that will need to be addressed at the time RECLAIM rule amendments are next considered.

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April 15, 1998

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for First Quarter, 1998
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the eighteenth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period January through March 1998. In compliance with the SCAQMD Rule 1150. permit, this quarterly report contains information required on an annual bases (see Section A.6 of this report).

Monitoring and sampling for this report was performed on January 8, 16, 22, 26 and 30, February 13, 19, and 27, March 12, 13, 24, 30, and 31, 1998.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet (referred to as TSI for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Ambient air sampling requirements are not included in the routine quarterly monitoring for Penrose. Per Rule 1150.1 simultaneous source tests at the inlet and outlet of the gas disposal system are done at Penrose on an annual basis, and reported in the next quarterly report after data is available.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision; see Exhibit B for core group toxic air contaminants).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.
2. Types and weights of waste materials deposited in the reporting year.
3. Total amount of waste materials deposited to date.
4. Contour map showing updated landfill boundary.
5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.
6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, January through March 1998, field monitoring was conducted on January 8, 16, 22, 26, and 30, February 7, 24, and 27, and March 12, 13, 24, 30, and 31, 1998. Additional perimeter probe monitoring results collected by David Thompson from the City of Los Angeles, Environmental Affairs Department (LEA), are included in Table II and Table III. Samples were collected for laboratory analysis on January 26, February 27, and March 24 and 31, 1998. (see Exhibit C for field documentation and Exhibit D for laboratory results).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on January 8 and 30, February 13 and 27, and March 13 and 30, 1998 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Additional perimeter probe monitoring was conducted by David Thompson from the LEA on January 15, February 12, and March 17, 1998 and by Los Angeles By-Products personnel on January 22 and February 19, 1998. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 48 hours of sampling.

Perimeter probe sampling was conducted at Probe U (68'), Probe R (40') and at Probe Q (@ 10' and 40') on January 26, at Probe U (@ 37' and 68') on February 27, and at Probe U (@ 37' and 68') Probe R (10') and at Probe Q ((red) @ 10' or 40') on March 31, 1998. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on January 26, February 27, and March 24, 1998, by focusing sampling efforts in zones where TOC surface sampling had not been conducted recently. During instantaneous surface monitoring, no areas had detectable TOC readings in January, February, or March. On January 26, Areas 23 and 24 were sampled (see Integrated Surface Sampling Map in Exhibits A and C), on February 27, Areas 26 and 27 were sampled, and on March 24, 1998, Areas 28 and 29 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. The ISS field monitoring results were 4 ppm TOC from Area 23 and 30 ppm TOC from Area 24 on January 26, 1998. All other ISS field monitoring results for the First Quarter TOC and H_2S concentrations were non-detect.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path B was traversed on January 8, 1998. Path A was traversed on February 13, and March 12, 1998. In January, February, and March no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Ogden Power Pacific, Inc. (formerly Pacific Energy) electrical generation plant inlet pipeline on January 26, February 27, and March 24, 1998. TOC was monitored with a GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were collected on August 22, 1997 and results of inlet analyses were reported in the third and fourth quarter 1997 reports.

B.6 Reporting Requirements

This is the eighteenth in a series of quarterly reports and the first quarterly report for Penrose Landfill for 1998. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Positive Lab Service. The early (to mid-) month data is used to select the monthly probe sampling stations and the (mid to) late-month monitoring is used to fulfill any required follow-up probe monitoring. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

January 16, 1998 monitoring results showed the high combustible gas readings at Probes Q (55% @ 10', 22% @ 40'), R (18% @ 40'), and U (26% @ 68'). Additional perimeter probe monitoring conducted by the LEA on January 15, yielded a "no violations" report; and, by Los Angeles By-Products personnel on January 22 yielded non-detect readings from all probes at Probe clusters P, Q, R, T, and U. January 1998 perimeter probe data is summarized in Table I. Probes U (68-foot depth), R (40-foot depth), Q (10-foot depth), and Q (40-foot depth), were sampled on January 26, 1998.

Table I - January 1998
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBE SAMPLED ON
January 26, 1998

Probe No.	Depth (ft)	TOC 1/15/98 (% Vol) LEA	TOC 1/16/98 (% Vol)	Follow up TOC 1/22/98 (% Vol)	TOC 1/26/98 (% Vol)	Lab Results 1/26/98 (% Vol)	Follow up TOC 1/30/98 (% Vol)
U	68	<5	26	ND	0.8	0.5	28
R	40	<5	18	ND	ND	0.0015	ND
Q	10	<5	55	ND	ND	<0.0001	ND
Q	40	<5	22	ND	5	1.7	ND

Note: Laboratory samples were collected 1/26/98. Field values are volume percent TOC.

ND None detected.

February 13, 1998 perimeter probe monitoring results showed high combustible gas readings at Probes U (20% @ 37' and 21% @ 68'). Perimeter probe monitoring conducted by the LEA on February 15, yielded high combustible gas readings at Probes U (10.9% @ 37' and 10.5% @ 68'). Additional perimeter probe monitoring conducted by Los Angeles By-Products personnel on February 19 yielded combustible gas readings at Probes U (ND @ 37' and 5% @ 68'). Probes U at the 37-foot and 68-foot depths was sampled on February 27, 1998. Laboratory analytical and follow-up monitoring results were less than one percent of volume methane (see Table II).

Table II - February 1998
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
February 27, 1998

Probe No.	Depth (feet)	VOC 2/12/98 (% Vol) LEA	VOC 2/13/98 (% Vol)	VOC 2/19/98 (% Vol)	VOC 2/27/98 (% Vol)	Lab Result 2/27/98 (% Vol)	Follow up VOC 2/27/98 (% Vol)
U	37	10.9	20	ND	ND	0.0002	ND
U	68	10.5	21	5	ND	0.0003	ND

Note: Laboratory samples were collected 2/27/98. Laboratory results are volume percent of methane. Field values are volume percent TOC.

Perimeter probe monitoring on March 13, 1998 resulted in non-detect TOC readings at all probes. March 17, 1998 perimeter probe monitoring results by LEA indicated combustible gas readings at Probes Q (2% and 35%), R (22% @ 10' and 1% @ 40%), U (5% @ 37' and 9% @ 68'), and # 10 (2.9%). On March 31, 1998, Probes Q (10 ' and 40'), Probe R (10'), and Probe U (37' and 68') were sampled (see lab results in Table III).

Table III - March 1998
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
March 31, 1998

Probe No.	Depth (feet)	VOC 3/13/98 (% Vol)	VOC 3/17/98 (% Vol)	VOC 3/31/98 (% Vol)	Lab Results 3/31/98 (% Vol)	Follow up VOC 4/98 (% Vol)
Q	Red	ND	35	ND	>0.0001	NA
R	10	ND	22	ND	>0.0001	NA
U	37	ND	5	ND	0.0002	NA
U	68	ND	9	ND	0.0003	NA

Note: Laboratory samples were collected 3/31/98. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NA Not available.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples ~~were~~ analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. Table V summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FIRST QUARTER 1998
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA		CH_4 (PPMV)	TGNMO (PPMV)
1/26/98	AREA # 23	4	11
1/26/98	AREA # 24	29	10
2/27/98	AREA # 26	2	4
2/27/98	AREA # 27	2	4
3/24/98	AREA # 28	2	8
3/24/98	AREA # 29	3	10

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the First Quarter of 1998.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 39.2% methane on January 26, 35.9% methane on February 27, and 39.9% methane on March 24, 1998. Dreager tube analytical results were 90 ppm H_2S on January 26, 100 ppm H_2S on February 27, 1998 and 90 ppm H_2S on March 24, 1998. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling was conducted on August 22, 1997. The analytical results from the samples collected at the plant inlet and generator exhaust, for source testing in 1997, were included in Exhibit E of the Third and Fourth Quarter 1997 Reports.

C.6 Report Requirements

This report constitutes the 1998, First Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

As a first quarter report the required annual requirements 8.2 are included below.

A. Ogden Power Pacific's power plant is the only facility operating on the property.

B. No wastes materials have been deposited in the landfill during this reporting period.

C. The total material deposited in Penrose Landfill to date is estimated at 14 million tons.

D. A contour map with the landfill boundary is included in Exhibit A. Trash extends throughout the site to within 10 feet of the property line, except along the south property line where trash is approximately 50 feet north of the property line and at the corners of the site where "rounding" resulted from accommodating excavation.

E. The collection system and the electrical power (disposal system) plant is operated by Ogden Power Pacific. Their records of the amount of landfill gas collected during the years 1988 through 1997 and projections are included in Exhibit E (amounts are in MMBTU).

F. Maps of the collection system and disposal (electric power plant) system are included in E. The annual disposal rates during the years 1988 through 1997 are included in E above.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

Positive Lab Service detected high TOC concentrations from perimeter probes during both January monitoring events. LEA detected high perimeter probe concentrations in February and March. Mitigation methods, including selective gas extraction from the area of excessive landfill gas (LFG) migration, were enacted and follow-up monitoring of the same probes was performed in compliance with SCAQMD Rule 1150.1.

Major compliance endeavors enacted by Los Angeles By-Products Company and Ogden Power Pacific in the past several years include:

- Mitigation well (8 wells) program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter 1995 (including revised and improved gas collection system, see Gas Collection System map in Exhibit A); probes 2 through 8 were replaced at this time; and
- Replacement probe (A1, K1, and J1) installation in Fourth Quarter, 1995.
- Closure plan construction at clubhouse and BMX track locations in 1997 and 1998.

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E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO.
C 37509
exp. 6-30-2000
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.618/atf

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EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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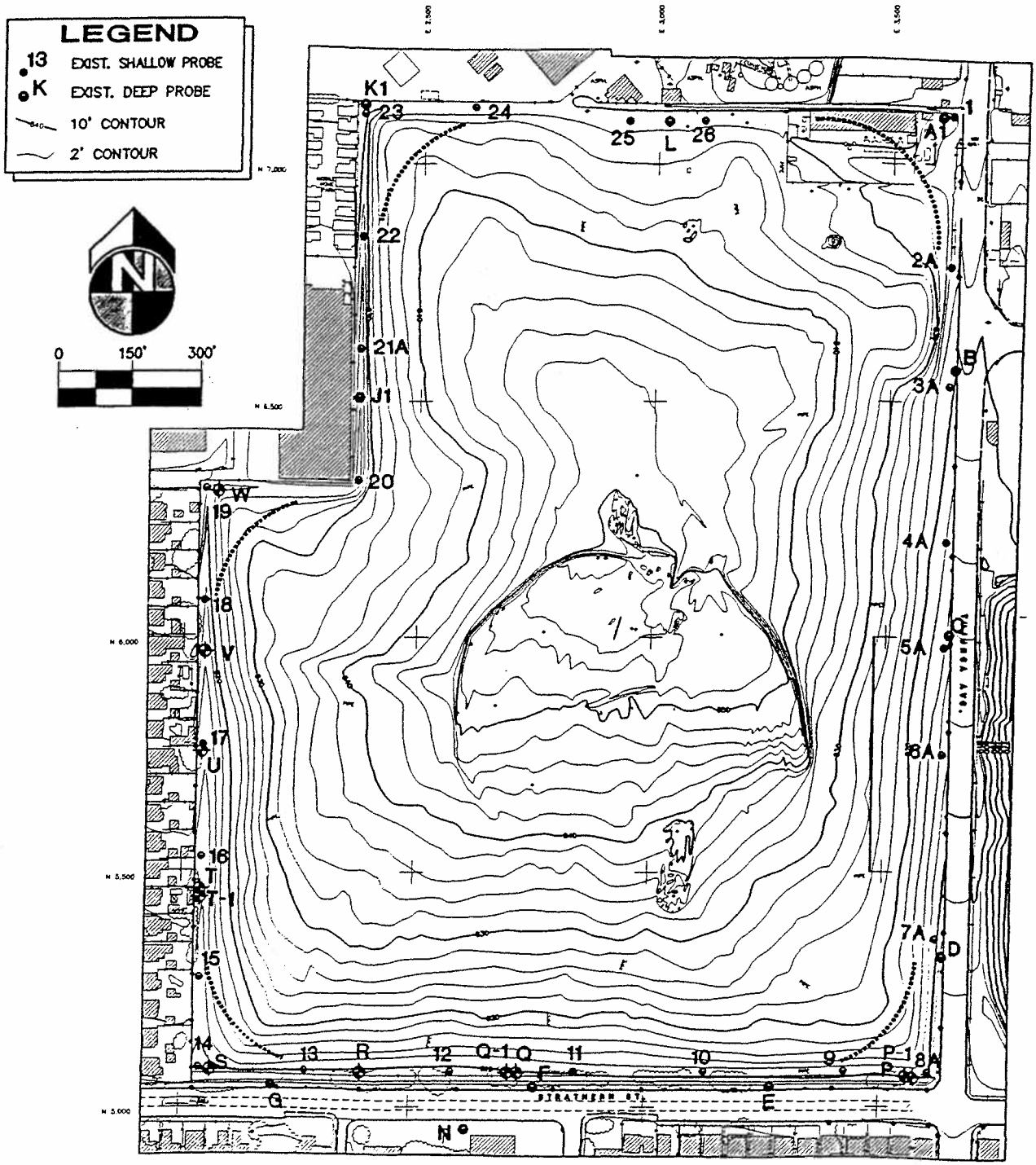
PENROSE LANDFILL MONITORING PROBE LOCATIONS



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SPECIALISTS

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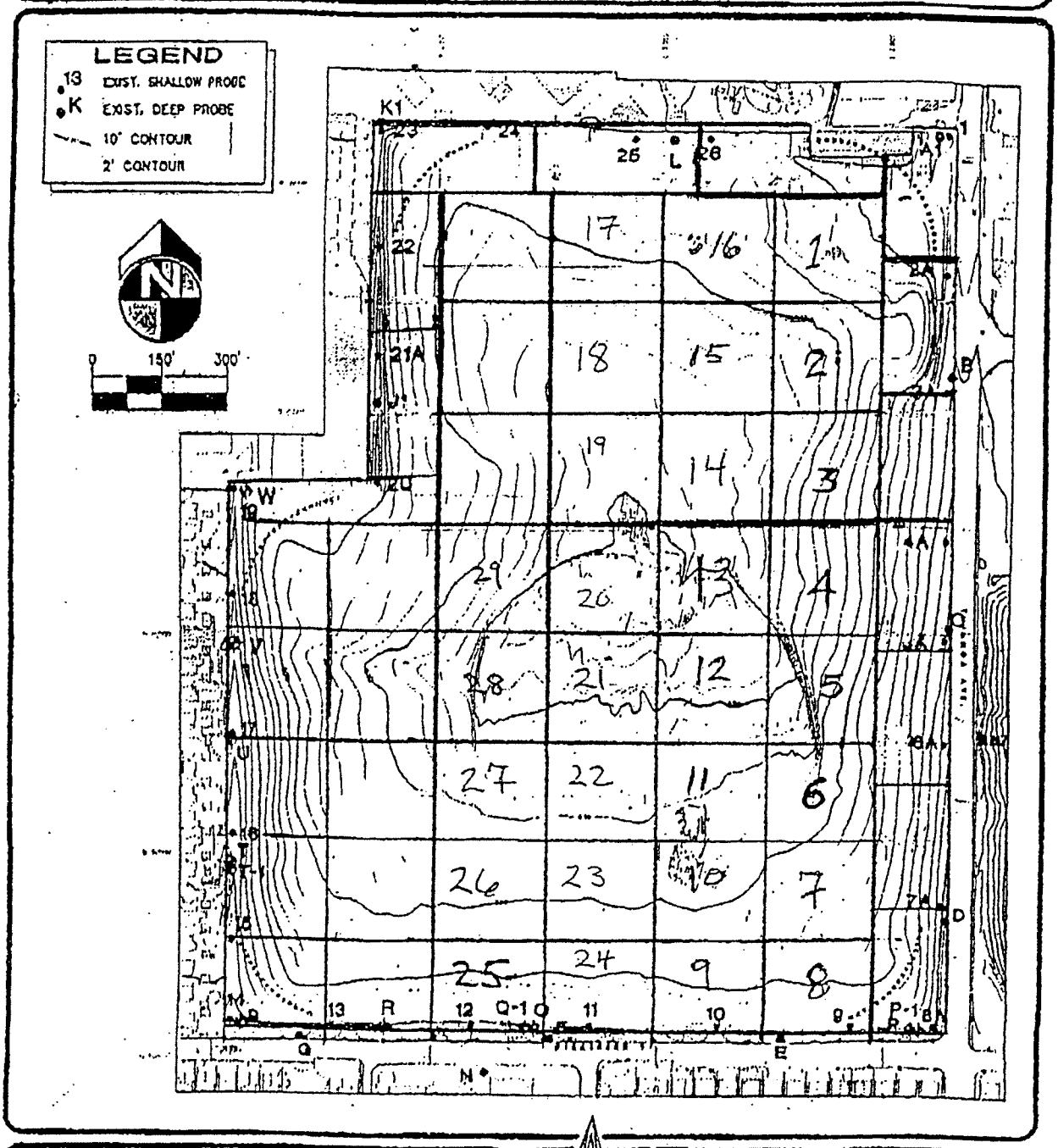
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



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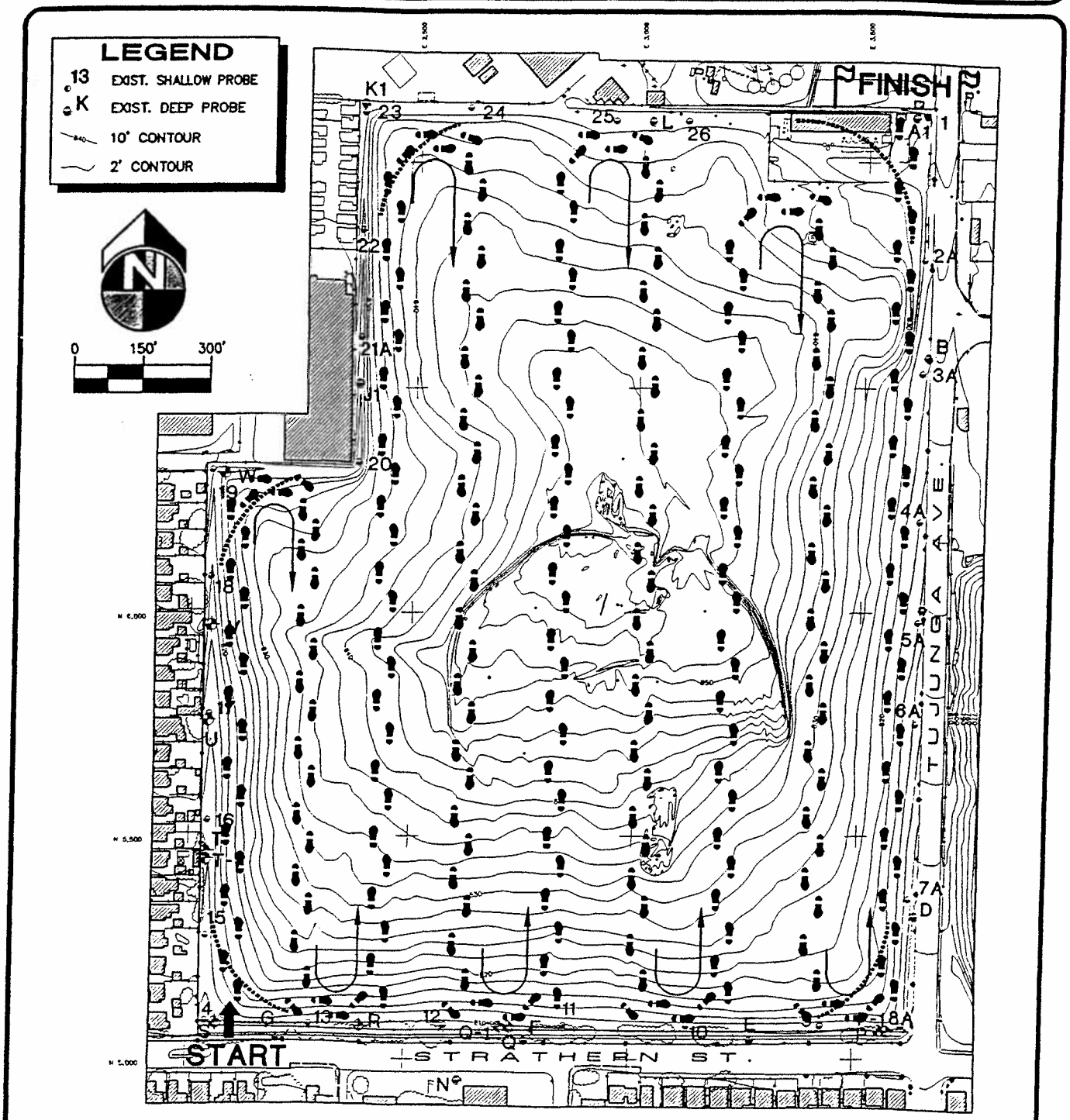
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



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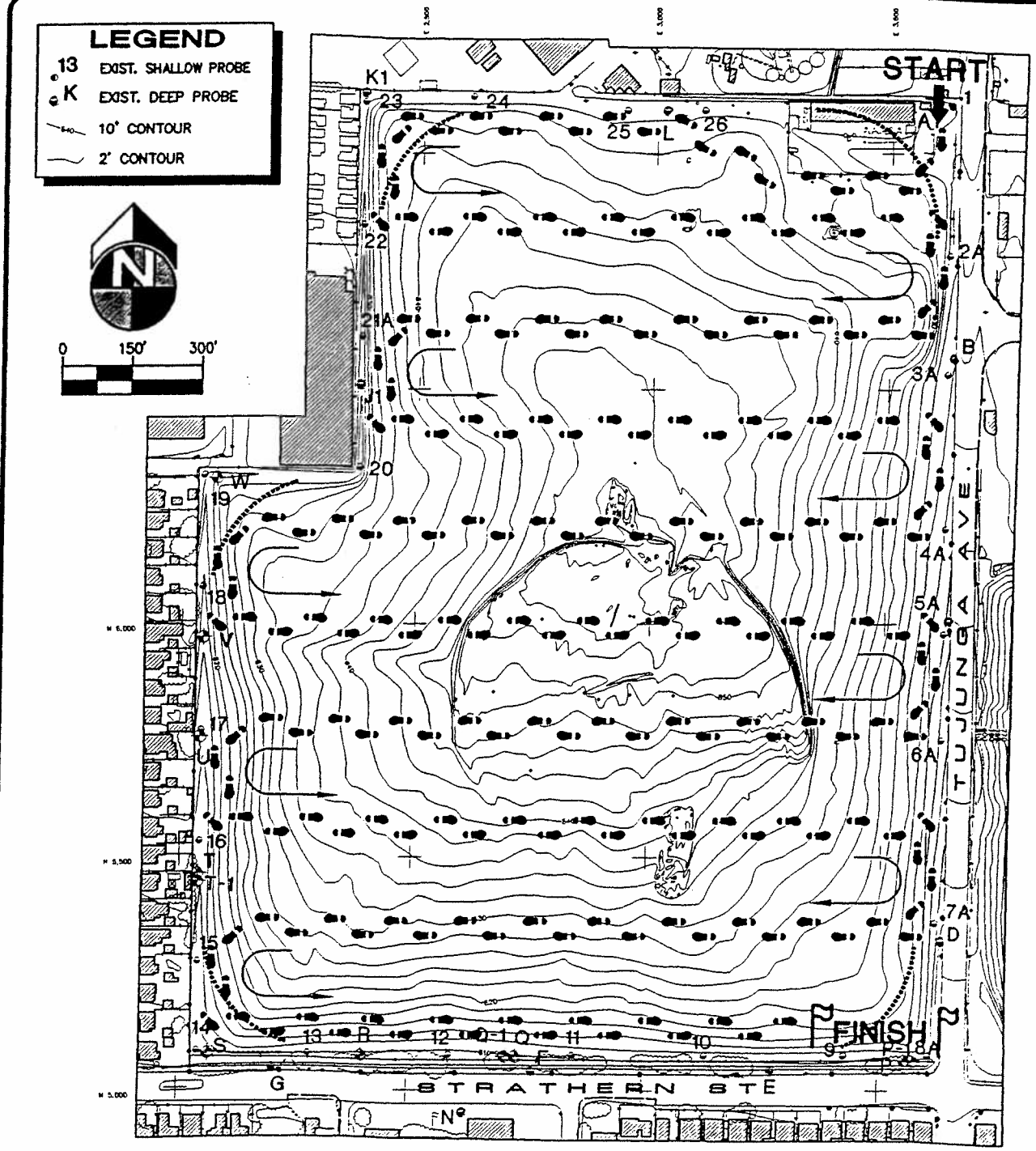
INSTANTANEOUS SURFACE MONITORING



PATH B

3-12-98 J152PATH

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PENROSE LANDFILL GAS COLLECTION SYSTEM

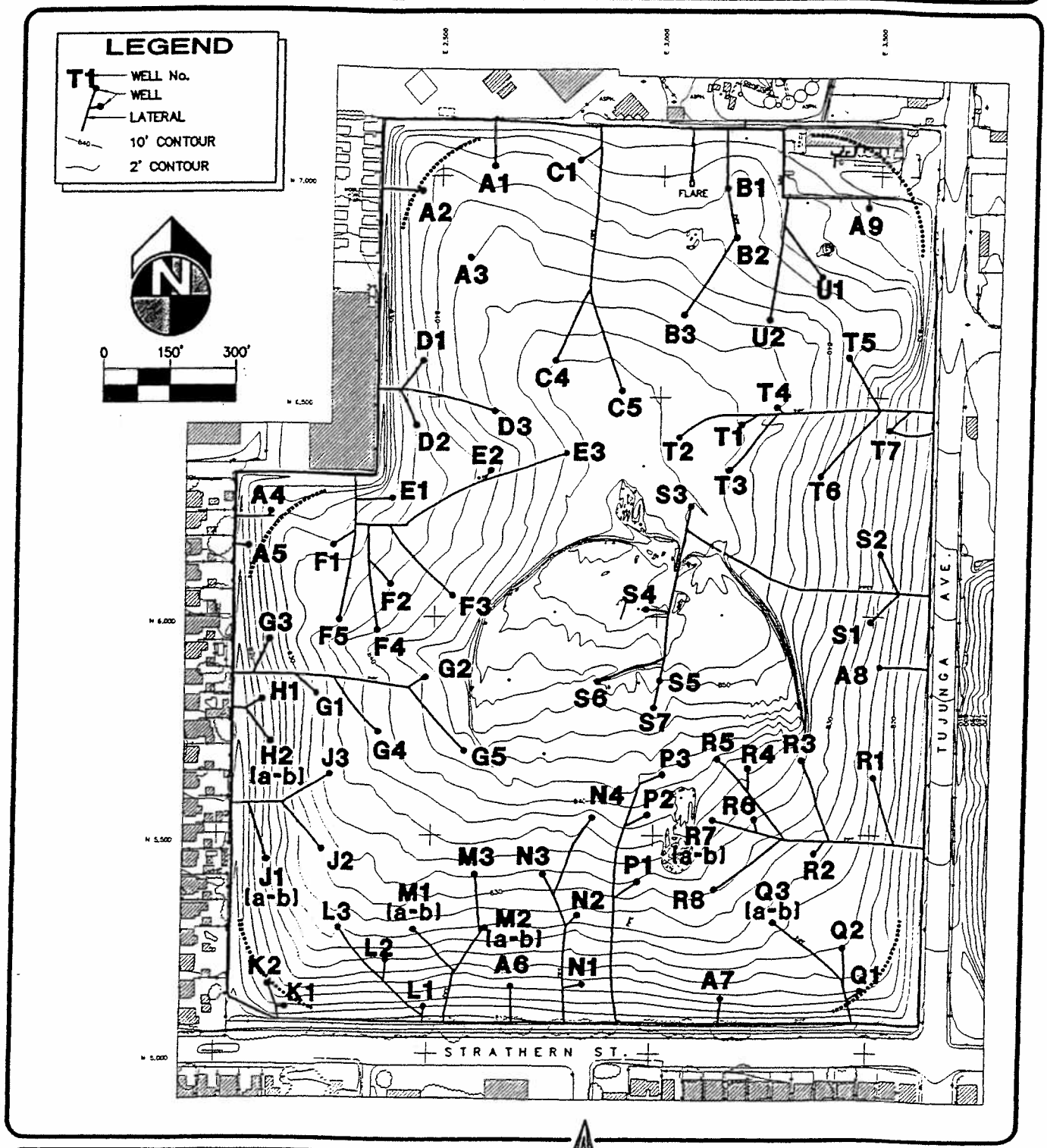

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EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - First Quarter, 1998

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JOB NAME: PENROSE

JOB No. J152-6

DATE 1/8/98

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain — <32° F / 71°-85° / 33°-55° / 86°-100° / 56°-70° / >100° F — still / breeze / wind — dry / moderate / humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was cool with a high cloud cover and no detectable wind according to an electronic wind speed indicator. Last recorded rainfall was over 72 hours ago. OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister 11/24/97. Contractor followed PATH 'B'. Monitor began at 8:30 am and finished at 10:05 am with a result of ND.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

January 23, 1998

RECEIVED
JAN 27 1998
LA BY-PROD CO

FILE NO: 72986

LAB NO: 8016151700

SAMPLE: On 01/16/98 at 08:15, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	-	13	-	25	-	L	(2)*
2-A	-	14	-	26	-	N	(3)*
3-A	-	15	-	A1	-	P	(4)*
4-A	-	16	-	B	-	P1@120'	PLUGGED
5-A	-	17	-	C	(1)*	Q	(5)*
6-A	-	18	-	D	-	Q1	(6)*
7-A	-	19	-	E	-	R	(7)*
8-A	-	20	-	F	-	S	(8)*
9	-	21-A	-	G	-	T	(9)*
10	-	22	-	J1	-	T1-72'	ND
11	-	23	-	K1	-	U	(10)*
12	-	24	-			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

January 23, 1998

FILE NO: 72986

LAB NO: 8016151700

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	-	Red	-	Red	-	@ 10'	ND
Yellow	-	Yellow	-	Yellow	-	@ 40'	ND
Orange	-	Orange	-	Orange	-	@ 80'	ND
Green	-	Green	-	Green	-		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	55%	@ 120'	ND	@ 10'	ND	@ 10'	-
@ 40'	22%	@ 158'	ND	@ 40'	18%	@ 40'	-
@ 75'	ND			@ 80'	ND	@ 80'	-
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	PLUGGED	@ 68'	26%	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

NOTE: Due to time restraints, partial sampling was performed.

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakamoto

CONFIDENTIAL

( ) ( )

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 1/22/98

INSPECTION REPORT

CLIMATE: bright, clear, fog / cloudy, overcast, rain / <32° F, 33°-55°, 56°-70° / 71°-[illegible], [illegible]-100°, >100° F / still, breeze, wind / dry, moderate, humid

LOCATION: PENROSE

PURPOSE: Perimeter Probe Monitor - Follow up inspection of Positive lab monitor on 1/16/98.

CONTRACTOR(S): Robert McAllister

REMARKS: Clear blue skies with a slight southerly breeze. Toc meter used was a Natural Gas Indicator last calibrated by J.G. Tucker and Son on 2-18-96. Contractor monitored the following:

P	10' - ND	R -	10' - ND
	40' - ND		40' - ND
	80' - ND		80' - ND
Q	10' - ND		120' - ND
	40' - ND	T -	10' - ND
	75' - ND		40' - ND
Q1	120' - ND		73' - Plugged
U	10' - ND	T-1	72' - ND
	37' - ND		
	68' - ND		

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 1/26/98

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE LANDFILL

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was cloudy with bright sunshine through overcast clouds. Last recorded rainfall was over 72 hours ago. In the morning there was no detectable wind but by the afternoon there was a slight breeze of 0.0 to 1.7 mph out of the Southwest, according to an electronic wind speed indicator.

All air samples were collected in 10-liter Tedlar bags and placed into a black trash bag for protection from sunlight. The H_2S tests were done with a Drager pump and a Drager tube. The TOC tests were done with a

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
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TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6

DATE 1/26/98

REMARKS CONTINUED: a Natural Gas Indicator model npl-204 last calibrated by J.G. Tucker and Son on 2-18-96. ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min. The OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister 11/24/97.

PPS U 68' was collected at 11:00 AM and tested for H_2S (ND) and TOC (.8%). PPS R 40' was collected at 11:30 AM and tested for H_2S (ND) and TOC (ND). PPS Q 10' was collected at 12:01 PM and tested for H_2S (ND) and TOC (ND). Q 40' was collected at 12:30 PM and tested for H_2S (ND) and TOC (5%). The TSI was collected at 12:20 PM and tested for TOC (43%) and H_2S (100ppm). The ISS #23 was collected at 2:30 pm and tested for H_2S (ND) and OVA (4 ppm). The ISS #24 was collected at 3:00 PM and tested for H_2S (ND) and OVA (30 ppm).

Robert McAllister
INSPECTOR

PRINCIPAL

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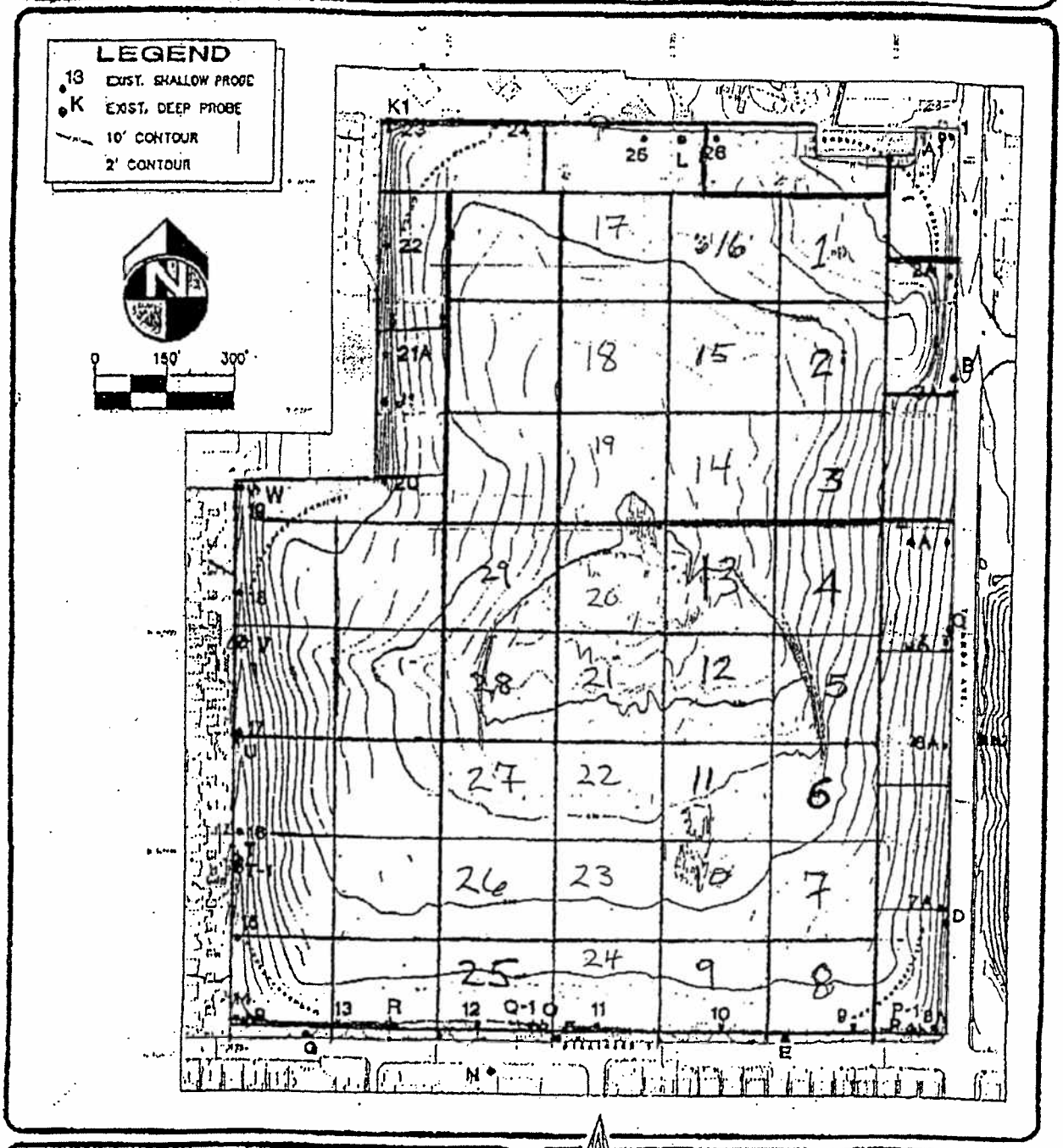
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



SEPICH ASSOCIATES, Inc.
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CIVIL ENGINEERS SANITARY ENVIRONMENTAL WASTE AND GAS CONTROL SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1923
1810 East 25th St. Los Angeles, CA 90058
Tel: (213) 233-4175 • Fax: (213) 233-4170

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TOTAL P.01

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 1/26/98

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS OVERCAST - CLOUDY - HOT -
TIME	U-68' - 11:00 AM TSI - 12:20 PM
INSTRUMENT	R-40' - 11:30 AM ISS #23 - 2:30 PM
PARAMETER	Q-10' - 12:00 pm ISS #24 - 3:00 PM
	Q-40' - 12:30 PM

PROBE #			PROBE #		TOC	H_2S			TOC	H_2S
1			A-1				R	10'		
2 A			B					40'	ND	ND
3 A			C	GREEN-21'				80'		
4 A				YELLOW-41'				120'		
5 A				ORANGE-61'			S	10'		
6 A				RED - 81'				40'		
7 A			D					80'		
8 A			E					120'		
9			F				T	10'		
10			G					40'		
11			J-1					73'		
12			K-1				T-1	72'		
13			L	GREEN-45'			U	10'		
14				YELLOW-65'				37'		
15				ORANGE-85'				68'	.8%	ND
16				RED - 105'			V	10'		
17			N	GREEN-22'				40'		
18				YELLOW-45'				73'		
19				ORANGE-68'			W	10'		
20				RED - 90'				40'		
21 A			P	10'				80'		
22				40'				120'		
23				80'				158'		
24			P-1	120'						
25			Q	10'	ND	ND	TSI		43%	100ppm
26				40'	5%	ND			OVA	H_2S
				75'				ISS 23	4 ppm	ND
			Q-1	120'				ISS 24	30ppm	ND
				158'						

CH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, C. 3021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

February 3, 1998

RECEIVED
FEB 04 1998
LA BY-PROD CO.

FILE NO: 70237

LAB NO: 8033165800

SAMPLE: On 01/30/98 at 12:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

February 3, 1998

FILE NO: 70237

LAB NO: 8033165800

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	20%	@ 40'	ND	@ 40'	ND
@ 73'	PLUGGED	@ 68'	28%	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

F. Fernando

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 2/13/98

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: What a Beautiful DAY! Clear blue skies with many wild flowers blooming. Electronic wind speed indicator received a ND for wind velocity. Last rainfall recorded was over 72 hours ago. OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 2-13-98. Monitor began at 9:20 am and concluded at 10:40 am with a result of ND. Contractor followed path 'A'.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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001133

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

February 19, 1998

RECEIVED
FEB 23 1998
L.A. BY-PROD. CO.

FILE NO: 72986

LAB NO: 8048115800

SAMPLE: On 02/13/98 at 12:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

February 19, 1998

FILE NO: 72986

LAB NO: 8048115800

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	20%	@ 40'	ND	@ 40'	ND
@ 73'	PLUGGED	@ 68'	21%	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakamoto

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 2/19/98

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, (overcast), fog, rain | <32° F, (71-85), 33°-55°, 86°-100°, 56°-70°, >100° F | still, (breeze), wind | dry, moderate, (humid)

LOCATION: PENROSE

PURPOSE: PROBE MONITOR

CONTRACTOR(S): Robert McAllister and Gerald Ameluxen

REMARKS: Tested U 37' with result ND. Also tested U 68' result was 5%. Instrument used was a Natural Gas Indicator model NPL-204 last calibrated by J.G. Tucker and Sons on 2-18-96. This inspection is a follow up for the Positive lab service monitor on 2/13/98.

☒ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

001186

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J1526

DATE 2/27/98

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain

<32° F / 33°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F

still / light / wind

dry / moderate / humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): Robert McAllister

REMARKS: Clear blue skies. Electronic wind speed indicator recorded a North East wind at 2.0 to 4.6 mph. with gusts up to 8.3 mph occassionally. Last recorded rainfall was over 72 hours ago.

OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 2-13-98. The TOC instrument used was a Natural Gas Indicator last calibrated by J.G. Tucker and Sons on 2-18-96, model # npl-204. ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min. H_2S levels

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6

DATE 2/27/98

REMARKS CONTINUED:

were determined with a Drager Pump and Drager tubes. All air samples were collected in 10-liter Tedlar bags and placed into a black trash bag for protection from sunlight.

ISS #26 was collected at 9:20 am and tested for H_2S (ND) and OVA (ND). ISS #27 was collected at 9:50 am and tested for H_2S (ND) and OVA (ND). PPS U 68' was collected at 10:25 am and tested for TOC (ND) and H_2S (ND). PPS U 37' was collected at 10:50 am and tested for TOC (ND) and H_2S (ND). The TSI sample was collected at 11:45 am and tested for H_2S (90 ppm) and TOC (43%).

Inspector collected and tested PPS U 68' and PPS U 37' as a followup of inspection on 2/19/98 by Robert McAllister and Gerald Ameluxen.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

001138

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE	2/27/88
JOB No.	J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS N.E. winds - gusts up to 8.3 mph
TIME	Clear blue skies
INSTRUMENT	ISS 26 - 9:20 am U - 37' - 10:50 am
	ISS 27 - 9:50 am TSI - 11:45 am
PARAMETER	U 68' - 10:25 am

PROBE #			PROBE #						TOC	H_2S
1			A-1				R	10'		
2 A			B					40'		
3 A			C	GREEN-21'				80'		
4 A				YELLOW-41'				120'		
5 A				ORANGE-61'			S	10'		
6 A				RED - 81'				40'		
7 A			D					80'		
8 A			E					120'		
9			F				T	10'		
10			G					40'		
11			J-1					73'		
12			K-1				T-1	72'		
13			L	GREEN-45'			U	10'		
14				YELLOW-65'				- 37'	ND	ND
15				ORANGE-85'				- 68'	ND	ND
16				RED - 105'			V	10'		
17			N	GREEN-22'				40'		
18				YELLOW-45'				73'		
19				ORANGE-68'			W	10'		
20				RED - 90'				40'		
21 A			P	10'				80'		
22				40'				120'		
23				80'				158'		
24			P-1	120'						
25			Q	10'			TSI		43%	90ppm
26				40'					H_2S	OVA
				75'				ISS 26	ND	ND
			Q-1	120'				ISS 27	ND	ND
				158'						

SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 620 WALNUT STREET MOORPARK, C. 93021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

Revised
March 3, 1998

RECEIVED
MAR 11 1998

FILE NO: 70237

LAB NO: 8061143700

SAMPLE: On 02/27/98 at 13:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

March 3, 1998

FILE NO: 70237

LAB NO: 8061143700

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Gerardo Sapien A. For:

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 3/12/98

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was cool with thick cloud cover. There was a south wind, detected by an electronic wind speed indicator with wind velocity to be 4.4 mph. OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 3-12-98. Contractor followed path 'A' and began monitor at 9:15 am and finished at 10:45 am. Monitor result was ND.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

March 17, 1998

FILE NO: 72986

LAB NO: 8075115300

SAMPLE: On 03/13/98 at 12:15, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

March 17, 1998

FILE NO: 72986

LAB NO: 8075115301

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakamoto

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J952-6
DATE 3/24/98

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain; <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F; still, breeze, wind; dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS & TSI

CONTRACTOR(S): Robert McAllister

REMARKS: OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 3-12-98. The TOC instrument used was a Natural Gas Indicator last calibrated by J.G. Tucker and Sons on 2-18-96, model # npl-204. ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 ml/min. H_2S levels were determined with a Drager Pump and Drager tubes. All air samples were collected in 18-liter tedlar bags and placed into a black trash bag for protection from sunlight.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 3/24/98

REMARKS CONTINUED:

Last recorded rainfall was over 72 hours ago. ISS #28 was collected at 9:45 am and tested for H_2S (ND) and OVA (ND). ISS #29 was collected at 10:30 am and tested for H_2S (ND) and OVA (ND). The TSI was collected at 12:01 pm and tested for TOC (.44%) and H_2S (90 ppm).

Robert m Allit
INSPECTOR

PRINCIPAL

JSA0075 4/15/94

SHEET__OF__

CONFIDENTIAL

04/13/1998 09:59 2132334170 L.A. BY-PRODUCTS CO. PAGE 06

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

3/24/98

Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		

REMARKS:
ISS #28 9:45 Am
ISS #29 10:30 Am
TSI 12:00 NOON.

PROBE #			PROBE #				PROBE #			
1							Q	10'		
2			B					40'		
3			C	GREEN-21'				75'		
4				YELLOW-41'			Q-1	120'		
5				ORANGE-61'				158'		
6				RED-81'			R	10'		
7			D					40'		
8			E					80'		
9			F					120'		
10			G				S	10'		
11			H					40'		
12			I	GREEN-17'				80'		
13				YELLOW-37'				120'		
14				ORANGE-57'			T	10'		
15				RED-77'				40'		
16			J					73'		
17			K				T-1	72'		
18			L	GREEN-45'			U	10'		
19				YELLOW-65'				37'		
20				ORANGE-85'				68'		
21				RED-105'			V	10'		
22			M					40'		
23			N	GREEN-22'				73'		
24				YELLOW-45'			W	10'		
25				ORANGE-68'				40'		
26				RED-90'				80'		
			P	10'				120'		
	DNA	H_2S		40'				158'		
ISS #28	ND	ND		80'					TOC	H_2S
ISS #29	ND	ND	P-1	120'				TSI	44%	90ppm

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #300
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3012 FAX: (805) 373-8807

CONFIDENTIAL

(483)

JOB NAME: PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES

FILE (JOB#): J152-6

DATE: 3/24/98

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		FIXED GAS			TOC	REMARKS
J152 6	3/24 98	9:45 Am	C	1	ISS #28	✓	✓	✓						
J152 6	3/24 98	10:30 Am	C	1	ISS #29	✓	✓	✓						
J152 6	3/24 98	12:01 Pm	G	1	TSI	✓	✓			✓				

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	[signature]	LABYPRO	3/25/98	9:00 am
RECEIVED BY:	[signature]	CHASCIENCE	3/25/98	9:00 am
RELINQUISHED BY:	[signature]	CHASCIENCE	3/25/98	10:35 am
RECEIVED BY:	[signature]	CHASCIENCE	3/25/98	10:35 am
RELINQUISHED BY:				
RECEIVED BY:				

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

April 1, 1998

RECEIVED
APR 08 1998
L.A. BY-PROD. CO.

FILE NO: 70237

LAB NO: 8091110700

SAMPLE: On 03/30/98 at 15:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

April 1, 1998

Page 2

FILE NO: 70237

LAB NO: 8091110700

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND	Green	NA	Green	ND		

(5) Site O	Percent Methane	(6) Site O1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 3/31/98

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain; <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F; still, breeze, wind; dry, humid

LOCATION: PENROSE

PURPOSE: PPS

CONTRACTOR(S): Robert McAllister

REMARKS: TOC instrument used was a Natural Gas Indicator last calibrated by J.G. Tucker and Sons on 2-18-96 model #ap1-204. H_2S tests were done with a Drager Pump and Drager tubes. All air samples were collected in 10-liter Tedlar bags and placed into a black trash bag for protection from sunlight.

PPS u 68' was collected at 8:40 am and tested for H_2S (ND) and TOC (ND). PPS u 37' was collected at 9:05 am and tested for H_2S (ND) and TOC (ND). PPS R 10' was collected at 10:35 am and tested for H_2S (ND) and TOC (ND). Q-BED was collected at

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 3/31/98

REMARKS CONTINUED:

11:15 am and tested for H_2S (ND) and TOC (ND).

There were slight rain showers and a wind from the South at about 13 mph.

Robert m Allison
INSPECTOR

PRINCIPAL

SHEET__OF__

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04/13/1998 13:41 2132334170

L.A. BY-PRODUCTS CO.

PAGE 01

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 235-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Job # J152-6

GAS CONCENTRATIONS

3/31/98

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		

REMARKS:
Cloudy - Windy - RAIN
U68 - 8:40 R10' - 10:35
U37 - 9:05 R RED - 11:15

PROBE #			PROBE #				PROBE #		TOC	H_2S
1							Q	10'		
2			B					40'		
3			C	GREEN-21'				RED	ND	ND
4				YELLOW-41'			Q-1	120'		
5				ORANGE-61'				158'		
6				RED-81'			R	10'	ND	ND
7			D					40'		
8			E					80'		
9			F					120'		
10			G				S	10'		
11			H					40'		
12			I	GREEN-17'				80'		
13				YELLOW-37'				120'		
14				ORANGE-57'			T	10'		
15				RED-77'				40'		
16			J					73'		
17			K				T-1	72'		
18			L	GREEN-45'			U	10'		
19				YELLOW-65'				37'	ND	ND
20				ORANGE-85'				68'	ND	ND
21				RED-105'			V	10'		
22			M					40'		
23			N	GREEN-22'				73'		
24				YELLOW-45'			W	10'		
25				ORANGE-68'				40'		
26				RED-90'				80'		
			P	10'				120'		
				40'				158'		
				80'						
			P-1	120'						

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #300 WESTLAKE VILLAGE, CA. 91362 TEL: (805) 373-8997 FAX: (818) 707-3012

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JOB NAME: PENROSE LANDFILL INTEGRATED SURFACE SAMPLES (0008)

FILE (JOB#): J152-6

DATE: 3-30-98

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORR GROUP	NMHC	CH_4					TOC	REMARKS
J152-6	3/30/98	8:40 Am	G	1	U 68'	✓	✓							
J152-6	3/30/98	9:05 Am	G	1	U 37'	✓	✓							
J152-6	3/30/98	10:35 Am	G	1	R 10'	✓	✓							
J152-6	3/30/98	11:15 Am	G	1	Q - RED	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	4/1	0830
RECEIVED BY:	Per [illegible]	CALSCIENCE	04/01/98	0830
RELINQUISHED BY:	Per [illegible]	CALSCIENCE	04/01/98	1130
RECEIVED BY:	[illegible]	Calscience	4/1/98	1130
RELINQUISHED BY:				
RECEIVED BY:				

CONFIDENTIAL

EXHIBIT D

Laboratory Analytical Results - First Quarter, 1998

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	01/26/98
1810 East 25th Street	Date Received:	01/28/98
Los Angeles, CA 90058	Date Analyzed:	01/28/98
	Work Order No.:	98-01-521
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: U-68'

Analyte	Concentration	Reporting Limit
CH4	5170	
TGNMO	22	1

Sample Number: R-40'

CH4	15	
TGNMO	17	1

Sample Number: Q-10'

CH4	ND	1
TGNMO	25	1

Sample Number: Q-40'

CH4	1.7%	
TGNMO	32	1

Sample Number: TSI

Oxygen plus Argon	0.3*	0.1
Nitrogen	17.9*	0.1
Methane	39.2*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	42.6*	0.1
TGNMO	1010	1

* Reported in percent (%) by volume.

001256

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.		Date Sampled:	01/26/98
1810 East 25th Street		Date Received:	01/28/98
Los Angeles, CA 90058		Date Analyzed:	01/28/98
		Work Order No.:	98-01-521
Attn: Robert McAllister		Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6		Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: U-68'

Analyte	Concentration	Reporting Limit
TGNMO	22	1

Sample Number: R-40'

TGNMO	17	1

Sample Number: Q-10'

TGNMO	25	1

Sample Number: Q-40'

TGNMO	32	1

Sample Number: TSI

Oxygen plus Argon	0.3*	0.1
Nitrogen	17.9*	0.1
Methane	39.2*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	42.6*	0.1
TGNMO	1010	1

* Reported in percent (%) by volume.

001207

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

February 10, 1998
PM02498

Robert McAllister
L.A. By Products/Sepich Associates, Inc.
1810 East 25th Street
Los Angeles, CA 90058

Subject: **Calscience Work Order Number: 98-01-521**
Client Reference: Penrose Landfill/J152-6

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 01/28/98 and analyzed in accordance with the attached chain-of-custody.

Due to instrument problems, samples for this project were transferred to summa canisters to extend the holding time prior to TO-14 analysis.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc
Jody R. McInerney
Project Manager

William H. Christensen
Deliverables Manager

001208

7440 Lincoln Way. Garden Grove. CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	01/26/98 01/28/98 01/28/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 1 of 3	98-01-521 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: U-68'

Analyte	Concentration	Reporting Limit
TGNMO	22	1

Sample Number: R-40'

TGNMO	17	1

Sample Number: Q-10'

TGNMO	25	1

Sample Number: Q-40'

TGNMO	32	1

Sample Number: TSI

Oxygen plus Argon	0.3*	0.1
Nitrogen	17.9*	0.1
Methane	39.2*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	42.6*	0.1
TGNMO	1010	1

* Reported in percent (%) by volume.

001209

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	01/26/98 01/28/98 01/28/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 2 of 3	98-01-521 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: ISS #23

Analyte	Concentration	Reporting Limit
Methane	4	1
TGNMO	11	1

Sample Number: ISS #24

Methane	29	1
TGNMO	10	1

Sample Number: Method Blank #1

Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1
TGNMO	ND	1

Sample Number: Method Blank #2

Methane	ND	1

* Reported in percent (%) by volume.

001210

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	01/26/98 01/28/98 01/28/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 3 of 3	98-01-521 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

QA/QC

Sample Number: 98-01-512-1 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen plus Argon	2.7*	2.8*	4	0 - 25
Methane	479	474	1	0 - 25
Carbon Monoxide	0.4*	0.4*	0	0 - 25
Carbon Dioxide	9.8*	9.7*	1	0 - 25
TGNMO	103	84	20	0 - 25

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-521		
QC Batch ID:	980205	Date Collected:	01/26/98
Matrix:	Air	Date Received:	01/28/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	02/05/98

Client Sample Number: **U-68'**
Lab Sample Number: 98-01-521-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.9	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	4.4	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.7	0.5		ppb (v/v)
Chlorobenzene	1.0	0.5		ppb (v/v)
Xylenes (total)	6.3	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	6.9	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-521		
QC Batch ID:	980205	Date Collected:	01/26/98
Matrix:	Air	Date Received:	01/28/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	02/06/98

Client Sample Number: **R-40'**
Lab Sample Number: 98-01-521-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	1.4	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	52.9	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.7	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	9.7	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	1.6	0.5		ppb (v/v)
Chlorobenzene	2.0	0.5		ppb (v/v)
Xylenes (total)	29.3	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	10.2	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-521		
QC Batch ID:	980205	Date Collected:	01/26/98
Matrix:	Air	Date Received:	01/28/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	02/06/98

Client Sample Number: **Q-10'**
Lab Sample Number: 98-01-521-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	38.8	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.9	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	19.3	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	2.0	0.5		ppb (v/v)
Chlorobenzene	3.5	0.5		ppb (v/v)
Xylenes (total)	48.6	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	8.4	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-521		
QC Batch ID:	980205	Date Collected:	01/26/98
Matrix:	Air	Date Received:	01/28/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	02/06/98

Client Sample Number: **Q-40'**
Lab Sample Number: 98-01-521-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	29.8	2.5		ppb (v/v)
Acetonitrile	13.7	5.0		ppb (v/v)
1,1-Dichloroethene	ND	2.5		ppb (v/v)
Methylene Chloride	ND	10		ppb (v/v)
1,1-Dichloroethane	ND	2.5		ppb (v/v)
Chloroform	2.6	2.5		ppb (v/v)
1,2-Dichloroethane	ND	2.5		ppb (v/v)
1,1,1-Trichloroethane	ND	2.5		ppb (v/v)
Benzene	4.7	2.5		ppb (v/v)
Carbon Tetrachloride	ND	2.5		ppb (v/v)
Toluene	4.9	2.5		ppb (v/v)
Trichloroethene	ND	2.5		ppb (v/v)
Tetrachloroethene	5.7	2.5		ppb (v/v)
Chlorobenzene	ND	2.5		ppb (v/v)
Xylenes (total)	24.4	7.5		ppb (v/v)
Benzyl Chloride	ND	2.5		ppb (v/v)
1,3-Dichlorobenzene	ND	2.5		ppb (v/v)
1,4-Dichlorobenzene	15.3	2.5		ppb (v/v)
1,2-Dichlorobenzene	ND	2.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-521		
QC Batch ID:	980205	Date Collected:	01/26/98
Matrix:	Air	Date Received:	01/28/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	02/06/98

Client Sample Number: **TSI**
Lab Sample Number: 98-01-521-5

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	330	100		ppb (v/v)
Acetonitrile	ND	200		ppb (v/v)
1,1-Dichloroethene	ND	100		ppb (v/v)
Methylene Chloride	ND	400		ppb (v/v)
1,1-Dichloroethane	ND	100		ppb (v/v)
Chloroform	ND	100		ppb (v/v)
1,2-Dichloroethane	ND	100		ppb (v/v)
1,1,1-Trichloroethane	ND	100		ppb (v/v)
Benzene	1380	100		ppb (v/v)
Carbon Tetrachloride	ND	100		ppb (v/v)
Toluene	13700	100		ppb (v/v)
Trichloroethene	230	100		ppb (v/v)
Tetrachloroethene	190	100		ppb (v/v)
Chlorobenzene	1520	100		ppb (v/v)
Xylenes (total)	19300	300		ppb (v/v)
Benzyl Chloride	ND	100		ppb (v/v)
1,3-Dichlorobenzene	ND	100		ppb (v/v)
1,4-Dichlorobenzene	1310	100		ppb (v/v)
1,2-Dichlorobenzene	ND	100		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-521		
QC Batch ID:	980205	Date Collected:	01/26/98
Matrix:	Air	Date Received:	01/28/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	02/06/98

Client Sample Number: **ISS #23**
Lab Sample Number: 98-01-521-6

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.9	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	8.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.9	0.5		ppb (v/v)
Chlorobenzene	0.8	0.5		ppb (v/v)
Xylenes (total)	12.8	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	6.0	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-521		
QC Batch ID:	980205	Date Collected:	01/26/98
Matrix:	Air	Date Received:	01/28/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	02/06/98

Client Sample Number: **ISS #24**
Lab Sample Number: 98-01-521-7

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	1.4		ppb (v/v)
Acetonitrile	ND	2.9		ppb (v/v)
1,1-Dichloroethene	ND	1.4		ppb (v/v)
Methylene Chloride	7.1	5.8		ppb (v/v)
1,1-Dichloroethane	ND	1.4		ppb (v/v)
Chloroform	ND	1.4		ppb (v/v)
1,2-Dichloroethane	ND	1.4		ppb (v/v)
1,1,1-Trichloroethane	ND	1.4		ppb (v/v)
Benzene	2.0	1.4		ppb (v/v)
Carbon Tetrachloride	ND	1.4		ppb (v/v)
Toluene	9.6	1.4		ppb (v/v)
Trichloroethene	ND	1.4		ppb (v/v)
Tetrachloroethene	ND	1.4		ppb (v/v)
Chlorobenzene	ND	1.4		ppb (v/v)
Xylenes (total)	16.1	4.3		ppb (v/v)
Benzyl Chloride	ND	1.4		ppb (v/v)
1,3-Dichlorobenzene	ND	1.4		ppb (v/v)
1,4-Dichlorobenzene	7.5	1.4		ppb (v/v)
1,2-Dichlorobenzene	ND	1.4		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-521		
QC Batch ID:	980205	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	02/05/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-390

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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LCS/LCSD Batch Number:	980205	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	02/05/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	96	99	60-140	3	0-30	
1,2-Dichloroethane	88	90	60-140	2	0-30	
Benzene	91	88	60-140	3	0-30	
Carbon Tetrachloride	94	96	60-140	2	0-30	
Trichloroethene	93	94	60-140	1	0-30	
Tetrachloroethene	88	83	60-140	5	0-30	
1,4-Dichlorobenzene	96	101	60-140	5	0-30	
1,2-Dichlorobenzene	97	100	60-140	3	0-30	

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GLOSSARY OF TERMS AND QUALIFIERS

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Work Order Number: 98-01-521

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	1-26-98

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

	SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		FIXED GAS			TOC	REMARKS
1	J152 6	1-26 98	11:00 AM	G	1	U-68'	✓	✓							
2	J152 6	1-26 98	11:30 AM	G	1	R-40'	✓	✓							
3	J152 6	1-26 98	12:01 pm	G	1	Q-10'	✓	✓							
4	J152 6	1-26 98	12:30 AM	G	1	Q-40'	✓	✓							
5	J152 6	1-26 98	12:20 pm	G	1	TSI	✓	✓			✓				
6	J152 6	1-26 98	2:30 pm	C	1	ISS #23	✓	✓	✓						
7	J152 6	1-26 98	3:00 pm	C	1	ISS #24	✓	✓	✓						

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	[illegible]	LABYPRO	1-28-98	
RECEIVED BY:	[illegible]	CALSCIENCE	1-28-98	0900
RELINQUISHED BY:	[illegible]	CALSCIENCE	1-28-98	0955
RECEIVED BY:	[illegible]	Cal Science	1-28-98	0955
RELINQUISHED BY:				
RECEIVED BY:				

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	02/27/98 02/27/98 02/28/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 1 of 3	98-02-753 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #26		
Methane	2	1
TGNMO	4	1
Sample Number: ISS #27		
Methane	2	1
TGNMO	4	1
Sample Number: U 68'		
Methane	3	1
TGNMO	2	1
Sample Number: U 37'		
Methane	2	1
TGNMO	4	1

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	02/27/98 02/27/98 02/28/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 2 of 3	98-02-753 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reporting Limit
Sample Number: TSI		
Oxygen plus Argon	0.4*	0.1
Methane	35.9*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	39.5*	0.1
TGNMO	813	1
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1
Methane	ND	1
TGNMO	ND	1

* Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	02/27/98 02/27/98 02/28/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 3 of 3	98-02-753 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: TSI (Duplicate)				
Oxygen plus Argon	0.4*	0.3*	6	0 - 25
Methane	35.9*	35.8*	0	0 - 25
Carbon Monoxide	ND*	ND*	NA	0 - 25
Carbon Dioxide	39.5*	39.4*	0	0 - 25
TGNMO	813	833	2	0 - 25

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-02-753		
QC Batch ID:	980227	Date Collected:	02/27/98
Matrix:	Air	Date Received:	02/27/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	03/01/98

Client Sample Number: **ISS #26**
Lab Sample Number: 98-02-753-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	1.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	2.4	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	1.9	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-02-753		
QC Batch ID:	980227	Date Collected:	02/27/98
Matrix:	Air	Date Received:	02/27/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	03/01/98

Client Sample Number: **ISS #27**
Lab Sample Number: 98-02-753-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	6.4	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	1.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	1.5	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-02-753		
QC Batch ID:	980227	Date Collected:	02/27/98
Matrix:	Air	Date Received:	02/27/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	03/01/98

Client Sample Number: **U 68'**
Lab Sample Number: 98-02-753-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.5	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	1.5	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-02-753		
QC Batch ID:	980227	Date Collected:	02/27/98
Matrix:	Air	Date Received:	02/27/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	03/01/98

Client Sample Number: **U 37"**
Lab Sample Number: 98-02-753-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.5	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	1.5	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-02-753		
QC Batch ID:	980227	Date Collected:	02/27/98
Matrix:	Air	Date Received:	02/27/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	03/01/98

Client Sample Number: **TSI**
Lab Sample Number: 98-02-753-5

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	500		ppb (v/v)
Acetonitrile	ND	1000		ppb (v/v)
1,1-Dichloroethene	ND	500		ppb (v/v)
Methylene Chloride	ND	2000		ppb (v/v)
1,1-Dichloroethane	ND	500		ppb (v/v)
Chloroform	ND	500		ppb (v/v)
1,2-Dichloroethane	ND	500		ppb (v/v)
1,1,1-Trichloroethane	ND	500		ppb (v/v)
Benzene	1500	500		ppb (v/v)
Carbon Tetrachloride	ND	500		ppb (v/v)
Toluene	17700	500		ppb (v/v)
Trichloroethene	ND	500		ppb (v/v)
Tetrachloroethene	ND	500		ppb (v/v)
Chlorobenzene	1500	500		ppb (v/v)
Xylenes (total)	27100	1500		ppb (v/v)
Benzyl Chloride	ND	500		ppb (v/v)
1,3-Dichlorobenzene	ND	500		ppb (v/v)
1,4-Dichlorobenzene	1000	500		ppb (v/v)
1,2-Dichlorobenzene	ND	500		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-02-753		
QC Batch ID:	980227	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	02/28/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-406

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	980227	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	02/28/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	108	100	60-140	7	0-30	
1,2-Dichloroethane	100	97	60-140	3	0-30	
Benzene	95	98	60-140	3	0-30	
Carbon Tetrachloride	95	94	60-140	1	0-30	
Trichloroethene	102	99	60-140	2	0-30	
Tetrachloroethene	98	92	60-140	6	0-30	
1,4-Dichlorobenzene	119	108	60-140	9	0-30	
1,2-Dichlorobenzene	125	116	60-140	7	0-30	

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JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES	J152-6	2-27-98

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4			FIXED GAS		TOC	REMARKS
J152-6	2-27 98	9:20 Am	C	1	ISS #26	✓	✓	✓						
J152-6	2-27 98	9:50 Am	C	1	ISS #27	✓	✓	✓						
J152-6	2-27 98	10:25 Am	G	1	" 68'	✓	✓							
J152-6	2-27 98	10:50 AM	G	1	" 37'	✓	✓							
J152-6	2-27 98	11:00 Am	G	1	TSI	✓	✓				✓			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	2/28/98	158
RECEIVED BY:	[illegible]	Calscience	2/28/98	158
RELINQUISHED BY:	[illegible]	Calscience	3/2/98	[illegible]
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	calscience	2/27/98	1500

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	03/24/98
1810 East 25th Street	Date Received:	03/25/98
Los Angeles, CA 90058	Date Analyzed:	03/25/98
	Work Order No.:	98-03-783
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v)unless otherwise noted.

Analyte	Concentration	Reporting Limit
Sample Number: ISS #28		
Methane	2	1
TGNMO	8	1
Sample Number: ISS #29		
Methane	3	1
TGNMO	10	1
Sample Number: TSI		
Oxygen plus Argon	0.2*	0.1
Nitrogen	16.6*	0.1
Methane	39.9*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	43.3*	0.1
TGNMO	926	1
Sample Number: Method Blank #1		
Methane	ND	1
TGNMO	ND	1

*Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	03/24/98 03/25/98 03/25/98
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 2 of 2	98-03-783 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in percent (%) by volume.

Analyte	Concentration	Reporting Limit
Sample Number: Method Blank #2		
Oxygen plus Argon	ND	0.1
Nitrogen	ND	0.1
Methane	ND	0.1
Carbon Monoxide	ND	0.1
Carbon Dioxide	ND	0.1

QA/QC

Sample Number: 98-03-854-4 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen	0.4	0.5	22	0 - 25
Nitrogen	24.3	24.8	2	0 - 25
Methane	32.3	32.2	0	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	37.1	37.0	0	0 - 25
TGNMO	1100	1110	1	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-03-783		
QC Batch ID:	980326	Date Collected:	03/24/98
Matrix:	Air	Date Received:	03/25/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	03/27/98

Client Sample Number: **ISS #28**
Lab Sample Number: 98-03-783-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.2	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	7.4	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.5	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	9.0	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	3.8	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-03-783		
QC Batch ID:	980326	Date Collected:	03/24/98
Matrix:	Air	Date Received:	03/25/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	03/27/98

Client Sample Number: **ISS #29**
Lab Sample Number: 98-03-783-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.3	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	4.3	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.6	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	3.8	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	3.4	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-03-783		
QC Batch ID:	980326	Date Collected:	03/24/98
Matrix:	Air	Date Received:	03/25/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	03/27/98

Client Sample Number: **TSI**
Lab Sample Number: 98-03-783-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	290	200		ppb (v/v)
Acetonitrile	ND	400		ppb (v/v)
1,1-Dichloroethene	ND	200		ppb (v/v)
Methylene Chloride	820	800		ppb (v/v)
1,1-Dichloroethane	ND	200		ppb (v/v)
Chloroform	ND	200		ppb (v/v)
1,2-Dichloroethane	ND	200		ppb (v/v)
1,1,1-Trichloroethane	ND	200		ppb (v/v)
Benzene	1260	200		ppb (v/v)
Carbon Tetrachloride	ND	200		ppb (v/v)
Toluene	9770	200		ppb (v/v)
Trichloroethene	ND	200		ppb (v/v)
Tetrachloroethene	460	200		ppb (v/v)
Chlorobenzene	860	200		ppb (v/v)
Xylenes (total)	12200	600		ppb (v/v)
Benzyl Chloride	ND	200		ppb (v/v)
1,3-Dichlorobenzene	ND	200		ppb (v/v)
1,4-Dichlorobenzene	470	200		ppb (v/v)
1,2-Dichlorobenzene	ND	200		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-03-783		
QC Batch ID:	980326	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	03/26/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-417

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	980326	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	03/27/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	84	82	60-140	2	0-30	
1,2-Dichloroethane	107	106	60-140	0	0-30	
Benzene	93	93	60-140	0	0-30	
Carbon Tetrachloride	99	103	60-140	3	0-30	
Trichloroethene	101	102	60-140	0	0-30	
Tetrachloroethene	95	97	60-140	2	0-30	
1,4-Dichlorobenzene	100	98	60-140	2	0-30	
1,2-Dichlorobenzene	102	106	60-140	3	0-30	

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(483)

JOB NAME: PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES

FILE (JOB#): J152-6

DATE: 3/24/98

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		FIXED GAS			TOC	REMARKS
J152-6	3/24/98	9:45 Am	C	1	ISS #28	✓	✓	✓						
J152-6	3/24/98	10:30 Am	C	1	ISS #29	✓	✓	✓						
J152-6	3/24/98	12:01 Pm	G	1	TSI	✓	✓			✓				

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	3/25/98	9:00 Am
RECEIVED BY:	[illegible]	CALSCIENCE	3/25/98	9:00 am
RELINQUISHED BY:	[illegible]	CALSCIENCE	3/25/98	10:35 am
RECEIVED BY:	[illegible]	CALSCIENCE	3/25/98	10:35 am
RELINQUISHED BY:				
RECEIVED BY:				

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	03/30/98
1810 East 25th Street	Date Received:	04/01/98
Los Angeles, CA 90058	Date Analyzed:	04/01/98
	Work Order No.:	98-04-0008
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reporting Limit
Sample Number: U 68'		
Methane	3	1
TGNMO	5	1
Sample Number: U 37'		
Methane	2	1
TGNMO	6	1
Sample Number: R 10'		
Methane	ND	1
TGNMO	3	1
Sample Number: Q-RED		
Methane	ND	1
TGNMO	7	1
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	03/30/98
1810 East 25th Street	Date Received:	04/01/98
Los Angeles, CA 90058	Date Analyzed:	04/01/98
	Work Order No.:	98-04-0008
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

QA/QC

Sample Number: 98-04-0007-1 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Methane	1.6*	1.6*	0	0 - 25
TGNMO	69	71	3	0 - 25

*Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-04-0008		
QC Batch ID:	980401	Date Collected:	03/31/98
Matrix:	Air	Date Received:	04/01/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	04/01/98

Client Sample Number: **U 68'**
Lab Sample Number: 98-04-0008-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.7	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	2.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	1.8	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	2.3	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-04-0008		
QC Batch ID:	980401	Date Collected:	03/31/98
Matrix:	Air	Date Received:	04/01/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	04/01/98

Client Sample Number: **U 37'**
Lab Sample Number: 98-04-0008-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.6	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	2.0	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	2.0	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	3.2	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-04-0008		
QC Batch ID:	980401	Date Collected:	03/30/98
Matrix:	Air	Date Received:	04/01/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	04/01/98

Client Sample Number: **R 10'**
Lab Sample Number: 98-04-0008-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	0.7	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	1.4	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-04-0008		
QC Batch ID:	980401	Date Collected:	03/3Ø/98
Matrix:	Air	Date Received:	04/01/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	04/01/98

Client Sample Number: **Q-RED**
Lab Sample Number: 98-04-0008-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	4.1	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.5	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	1.7	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	2.0	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	2.0	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-04-0008		
QC Batch ID:	980401	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	03/31/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-421

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	980401	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	04/01/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	87	90	60-140	3	0-30	
1,2-Dichloroethane	103	102	60-140	0	0-30	
Benzene	96	98	60-140	2	0-30	
Carbon Tetrachloride	96	98	60-140	2	0-30	
Trichloroethene	102	107	60-140	4	0-30	
Tetrachloroethene	98	99	60-140	1	0-30	
1,4-Dichlorobenzene	100	107	60-140	6	0-30	
1,2-Dichlorobenzene	105	108	60-140	2	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	3-30-98

0008

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					TOC	REMARKS
J152-6	3/30/98	8:40 Am	G	1	U 68'	✓	✓							
J152-6	3/30/98	9:05 Am	G	1	U 37'	✓	✓							
J152-6	3/30/98	10:35 AM	G	1	R 10'	✓	✓							
J152-6	3/30/98	11:15 Am	G	1	Q - RED	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABYPRO	4/1	0830
RECEIVED BY:	Per [illegible]	CALSCIENCE	04/01/98	0830
RELINQUISHED BY:	Per [illegible]	CALSCIENCE	04/01/98	1130
RECEIVED BY:	[illegible]	Calscience	4/1/98	1130
RELINQUISHED BY:				
RECEIVED BY:				

001250

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EXHIBIT E

Documentation for Annual Requirements

First Quarter, 1998

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PENROSE LANDFILL - Landfill Gas Generation

YEAR	Estimated Generation (MMBTU)	Collection Efficiency	Collected (MMBTU)
ACTUAL:			
1988	533,722	85.00%	453,664
1989	507,036	85.78%	434,912
1990	481,684	83.78%	403,572
1991	457,600	78.25%	358,055
1992	434,720	83.57%	363,291
1993	412,984	94.40%	389,842
1994	395,045	85.00%	335,788
1995	404,104	85.00%	343,488
1996	407,191	85.00%	346,112
1997	377,488	85.00%	320,865
PROJECTED:			
1998	358,614	85.00%	304,822
1999	340,683	85.00%	289,581
2000	323,649	85.00%	275,102
2001	307,467	85.00%	261,347
2002	292,094	85.00%	248,280
2003	277,489	85.00%	235,866
2004	263,615	85.00%	224,073
2005	250,434	85.00%	212,869
2006	237,912	85.00%	202,225

NOTES:

(1) The amount of landfill gas collected during the years 1988 through 1995 represents the actual amount of (Penrose) landfill gas burned at the Penrose electrical generation facility.

(2) The estimate of landfill gas being generated is based on an assumed 85% collection efficiency and an average decline in the generation of 5% each year.

(3) The 5% decline in landfill gas generation is based on Ogden Power Pacific's experience with other landfills and the average annual gas generation decline, based on historical collection rates at Penrose.

(4) The "Projected" portion of this table was computer generated by Methane Specialists based on Ogden Power Pacific's projection method. The "Actual" portion of this table are values from Ogden Power Pacific.

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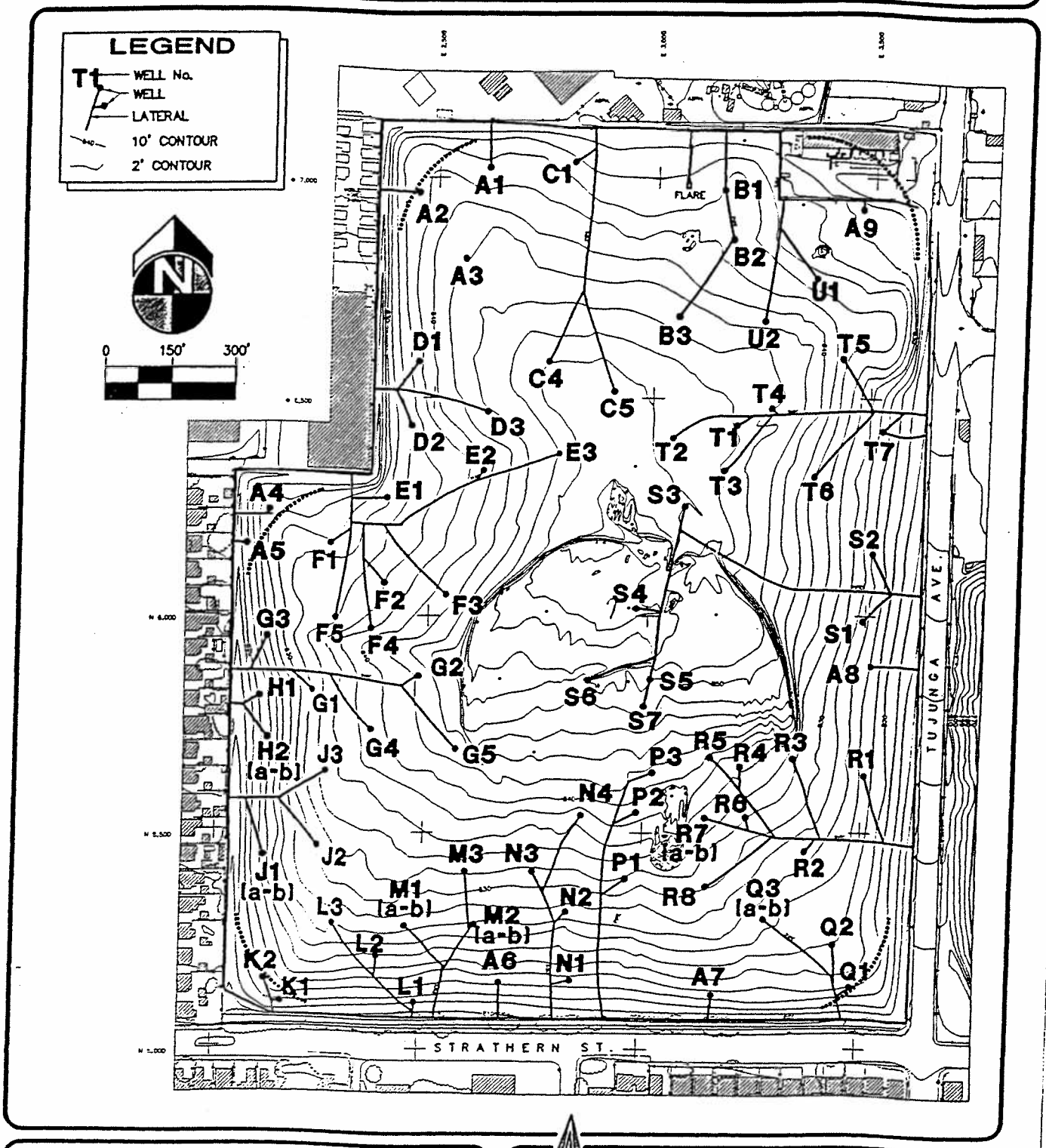
J152-6

PENROSE LANDFILL GAS COLLECTION SYSTEM



SEPICH ASSOCIATES, Inc.
680 WALNUT ST.
MOORPARK, CA 93021
TEL: (818) 707-3036 (805) 552-0000
FAX: (818) 707-3012 (805) 552-0001
CIVIL ENGINEERS SANITARY ENVIRONMENTAL WASTE AND GAS CONTROL SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

SHEET ___ OF ___

3-12-98 WELL-SYS

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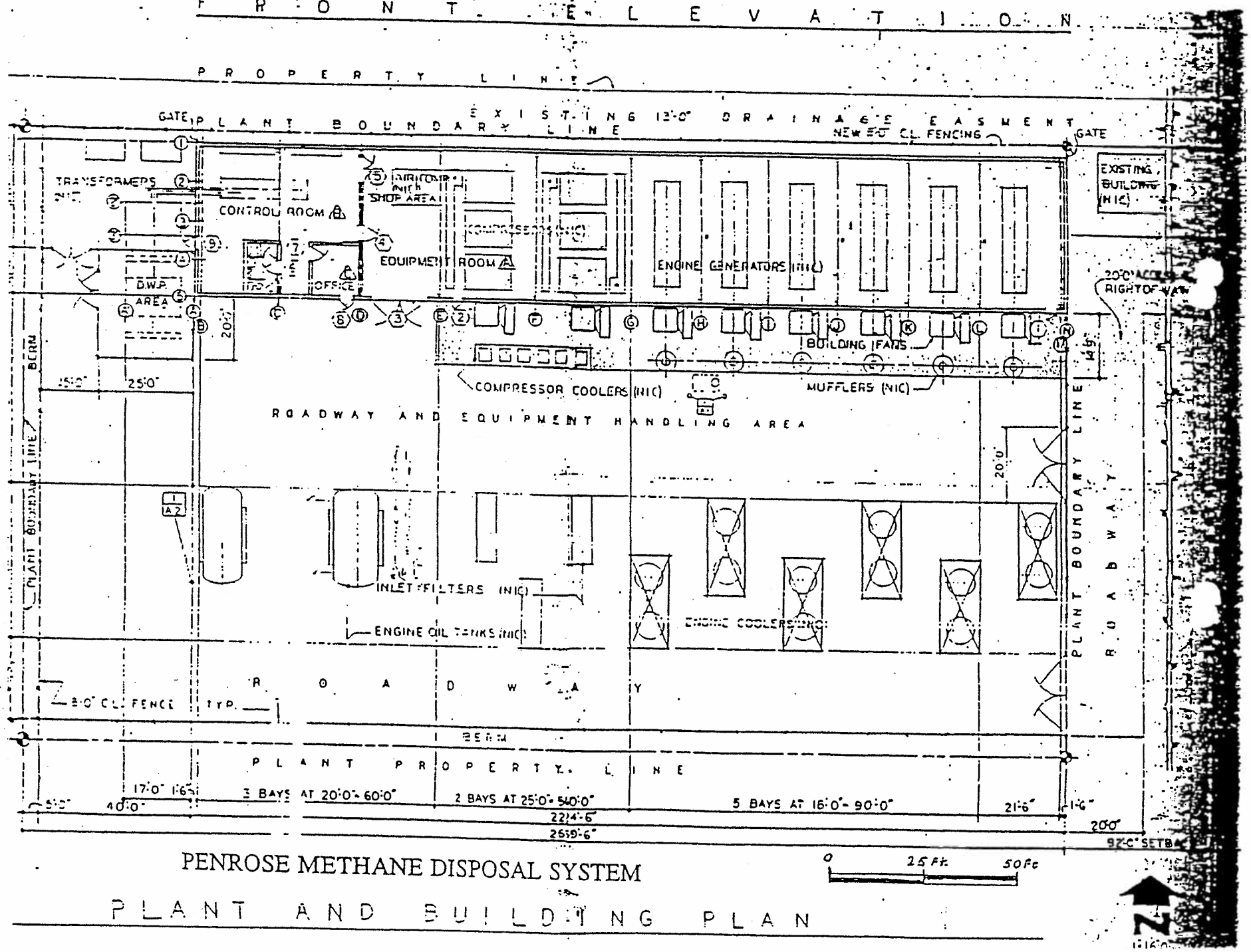

PENROSE METHANE DISPOSAL SYSTEM

PLANT AND BUILDING PLAN

001254

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Public Facilities Branch / SCAQMD

April 15, 1998

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

California Integrated Waste Management Board
8800 Cal Center Drive
Sacramento, CA 95826

Attention: Mr. Peter Janicke

City of Los Angeles
Environmental Affairs Department
201 North Figueroa St., Suite 200
Los Angeles, California 90012

Attention: Mr. David Thompson

LOS ANGELES BY-PRODUCTS Co.
1810 East 25th St.
Los Angeles, California 90058

Attention: Mr. Mike McAllister

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SEPICH ASSOCIATES, Inc.
and METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

TEL (818) 707-3036
(805) 552-0000
FAX (818) 707-3012
(805) 552-0001

January 22, 1998

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

RECEIVED
JAN 30 1998
L.A. BY-PROD. CO.

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Fourth Quarter, 1997
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the seventeenth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October through December 1997. December sampling planned for the later part of the month were delayed due to weather conditions and laboratory scheduling until January 8, 1998. In compliance with the SCAQMD Rule 1150. permit, this quarterly report contains source test information required on an annual bases (see Section A.5 of this report).

Monitoring and sampling for this report was performed on October 9, 13, 29, and 31, November 7, 24, and 25, December 15, 17, 23, and 26, 1997, and January 8, 1998.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet (referred to as TSI for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Ambient air sampling requirements are not included in the routine quarterly monitoring for Penrose. Per Rule 1150.1 simultaneous source tests at the inlet and outlet of the gas disposal system are done at Penrose on an annual basis, and reported in the next quarterly report after data is available.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, October through December 1997, field monitoring was conducted on October 9, 13, 29, and 31, November 7, 24, and 25, and December 15, 17, 23, and 26, 1997, and January 8, 1998. Additional perimeter probe monitoring results collected by David Thompson from the City of Los Angeles, Environmental Affairs Department (LEA), are included in Table II and Table III. Samples were collected for laboratory analysis on October 29, November 25, and January 8, 1998. (see Exhibit C for field documentation).

B.1 Perimeter Probe Monitoring and Sampling (PPS)

Perimeter probe monitoring on October 13 and 31, November 7 and 24, and December 15 and 26, 1997 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 48 hours of sampling.

Perimeter probe sampling was conducted at Probe 3A (5') on October 29, at Probe U (68') on November 25, and at Probe U (68') on January 8, 1998. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on October 29, November 25, and January 8, 1998, by focusing sampling efforts in zones where TOC surface sampling had not been conducted recently. During instantaneous surface monitoring, no areas had detectable TOC readings in October, November, or December. On October 29, Areas 19 and 20 were sampled (see Integrated Surface Sampling Map in Exhibit A), on November 25, Areas 21 and 22 were sampled, and on January 8, 1998, Areas 21 and 22 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. The ISS field monitoring results for the Fourth Quarter TOC and H_2S concentrations were all non-detect.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path A was traversed on October 9, and December 17. Path B was traversed on November 24, 1997. In October, November, and December no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Pacific Energy (PE) electrical generation plant inlet pipeline on October 29, November 25, and January 8, 1998. TOC was monitored with a GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were collected on August 22, 1997 and results of inlet analyses were reported in the third quarter 1997 report. LA By-Products Company sampled from an inlet containing Penrose gas only. Exhaust samples were collected from three of the engines at the power plant by Horizon Air Measurement Services, Inc., for the SCAQMD. The exhaust samples are from the mixture of landfill gas from Penrose, Sheldon, and Bradley landfills, that is being burned at the plant.

B.6 Reporting Requirements

This is the seventeenth in a series of quarterly reports and the fourth quarterly report for Penrose Landfill for 1997. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Positive Lab Service. The early (to mid-) month data is used to select the monthly probe sampling stations and the (mid to) late-month monitoring is used to fulfill any required follow-up probe monitoring. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

October 13, 1997 perimeter probe monitoring results indicated non-detect (ND) readings of TOC from all probes. Probe 3A (5-foot depth) was sampled on October 29, 1997.

Table I - October 1997
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBE SAMPLED ON
October 29, 1997

Probe Number	Depth (feet)	Field Value 10/13/97 (% Vol)	Field Value 10/29/97 (% Vol)	Lab Results 10/29/97 (% Vol)	Follow-up Field Value 10/31/97 (% Vol)
3A	5	ND	ND	0.0003	ND

Note: Laboratory samples were collected 10/29/97. Field values are volume percent TOC.

ND None detected.

November 7 and 24, 1997 perimeter probe monitoring results indicated non-detect (ND) readings of TOC from all probes. David Thompson from the City of Los Angeles, LEA, had reported high gas readings from Probe U at 37 feet and 68 feet (monitored on November 21, 1997). Probe U (68-foot depth) was sampled on November 25, 1997. Analytical results were 23.7 percent of volume methane. Adjustments were made to the gas extraction system from the vicinity of Probe U and follow-up monitoring by LEA on December 3, 1997 recorded ND results at both depths.

Table II - November 1997
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
November 25, 1997

Probe Number	Depth (feet)	Field Value 11/21/97 (% Vol)	Field Value 11/24/97 (% Vol)	Field Value 11/25/97 (% Vol)	Lab Result 11/25/97 (% Vol)	Follow-up Field Value 12/3/97 (% Vol)
U	37	35	ND	NA	NA	ND
U	68	34	ND	29.5	23.7	ND

Note: Laboratory samples were collected 11/25/97. Laboratory results are volume percent of methane. Field values are volume percent TOC.

Follow-up monitoring on December 3 (LEA) and 23, indicated non-detect TOC from Probe U. December 15, and 26, 1997 perimeter probe monitoring results indicated non-detect TOC from all probes. The December sampling was delayed past the end of the month. On January 8, 1998, Probe U at a depth of 68 feet was sampled. Analytical results indicated methane was at a concentration of 15.7 percent of volume. Adjustments were again made to the gas extraction system from the vicinity of Probe U.

Table III - December 1997
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
January 8, 1998

Probe Number	Depth (feet)	Field Value 12/3/97 (% Vol)	Field Value 12/15/97 (% Vol)	Field Value 12/17/97 (% Vol)	Field Value 12/26/98 (% Vol)
U	37	ND	ND	NA	ND
U	68	ND	ND	ND	ND

Note: Laboratory samples were collected 1/8/98. Laboratory results are volume percent of methane. Field values are volume percent TOC.

Table IV - January 1998
SUMMARY OF ADDITIONAL MONITORING AND SAMPLING RESULTS
FROM PERIMETER PROBE U

Probe Number	Depth (feet)	Field Value 1/8/98 (% Vol)	Lab Result 1/8/98 (% Vol)	Follow-up Field Value 1/98 (% Vol)
U	37	NA	NA	NA
U	68	21	15.7	NA

Note: Laboratory samples were collected 1/8/98. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NA Not available.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. Table V summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table V - FOURTH QUARTER 1997
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
10/29/97 AREA # 19	3	39
10/29/97 AREA # 20	3	5
11/25/97 AREA # 21	18,000	54
11/25/97 AREA # 22	3	17
1/8/98 AREA # 21	2	6
1/8/98 AREA # 22	2	4

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

When the integrated surface sample was collected on November 25, 1997, Area #21 contained a leaking gas pipeline. The sample (ISS 21) submitted to the laboratory contained 1.8% methane. The gas pipeline was repaired and an integrated surface sample collected on January 8, 1998 contained 2 ppm detectable methane.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Fourth Quarter of 1997.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 37.1% methane on October 29, 38.2% methane on November 25, and 40.3% methane on January 8, 1998. Dreager tube analytical results were 100 ppm H_2S on October 29, and November 25, 1997 and on January 8, 1998. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling was conducted on August 22, 1997. The analytical results from the samples collected at the plant inlet, for source testing in 1997, were included in Exhibit E of the Third Quarter Report. The analytical results from the exhaust samples (from Engines #2, #3, and #5) were not available for the Third Quarter Report, the inlet and exhaust sample results are include in this Fourth Quarter Report.

C.6 Report Requirements

This report constitutes the 1997, Fourth Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

Positive Lab Service did not detect high TOC concentrations from perimeter probes during the fourth quarter monitoring. LEA detected high perimeter probe concentrations in November. Mitigation methods, including selective gas extraction from the area of excessive LFG migration, were enacted and follow-up monitoring of the same probes in December recorded ND results.

Major compliance endeavors enacted by Los Angeles By-Products Company and Pacific Energy in the past several years include:

- Mitigation well (8 wells) program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter 1995 (including revised and improved gas collection system, see Gas Collection System map in Exhibit A); probes 2 through 8 were replaced at this time; and
- Replacement probe (A1, K1, and J1) installation in Fourth Quarter, 1995.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision jn accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
exp. 6-30-2000
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.617/atf

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Mr. David Thompson

California Integrated Waste Management Board

- Mr. Peter Janicke

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Fourth Quarter, 1997
- EXHIBIT D: Laboratory Analytical Results - Fourth Quarter, 1997
- EXHIBIT E: Laboratory Analytical Results - Source Tests, 1997 (Plant Inlet and Exhaust)

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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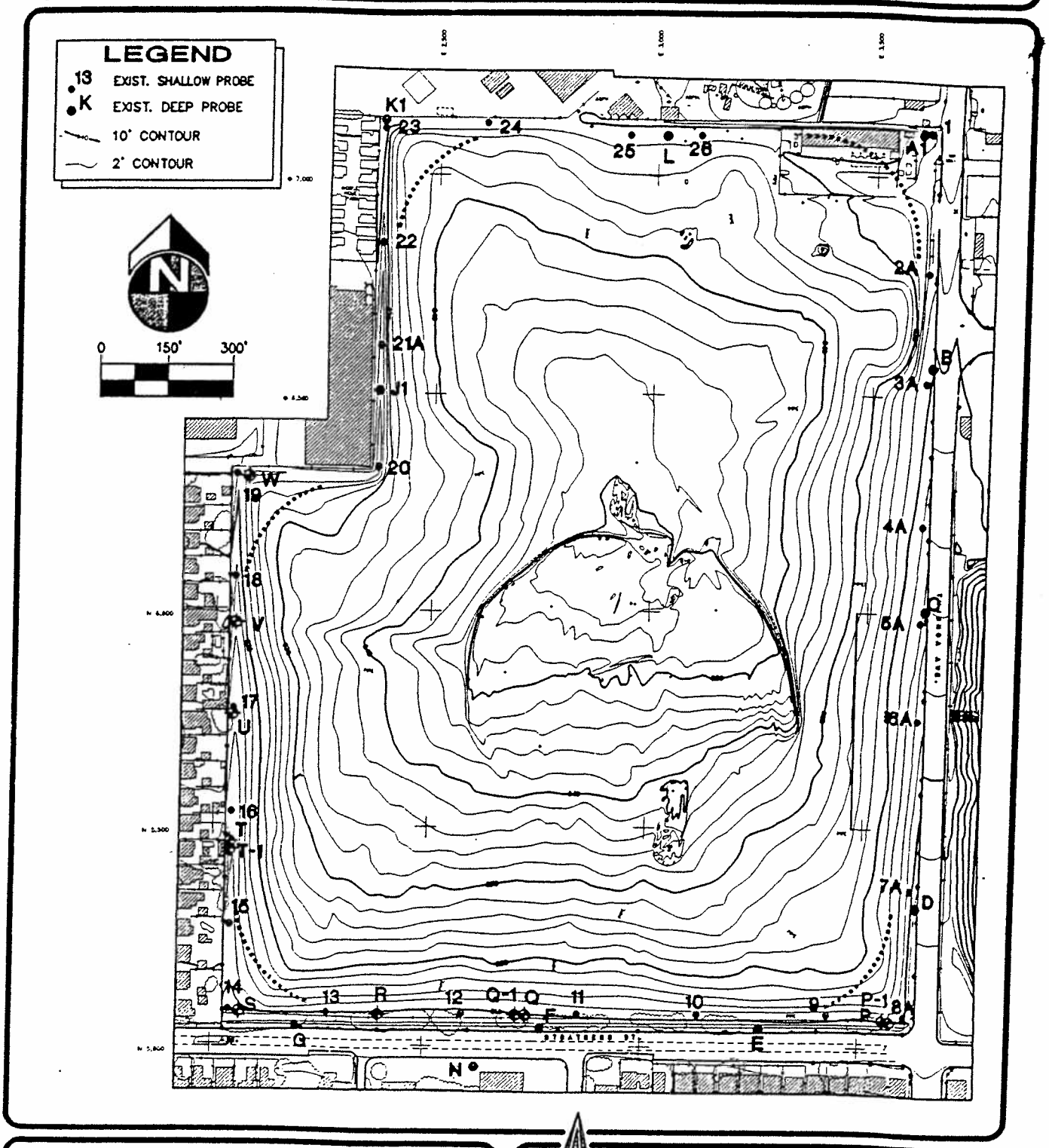
PENROSE LANDFILL MONITORING PROBE LOCATIONS



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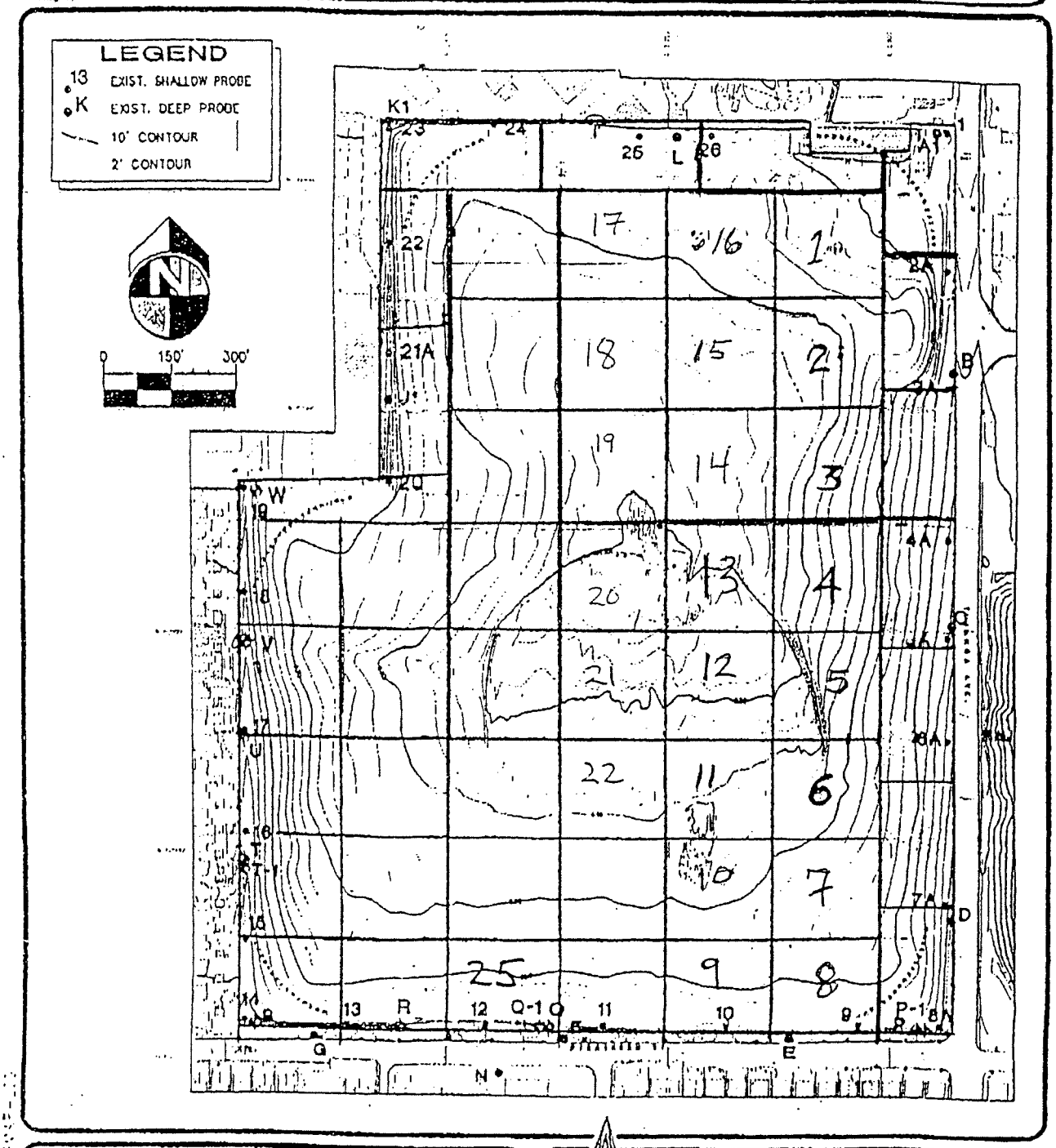
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



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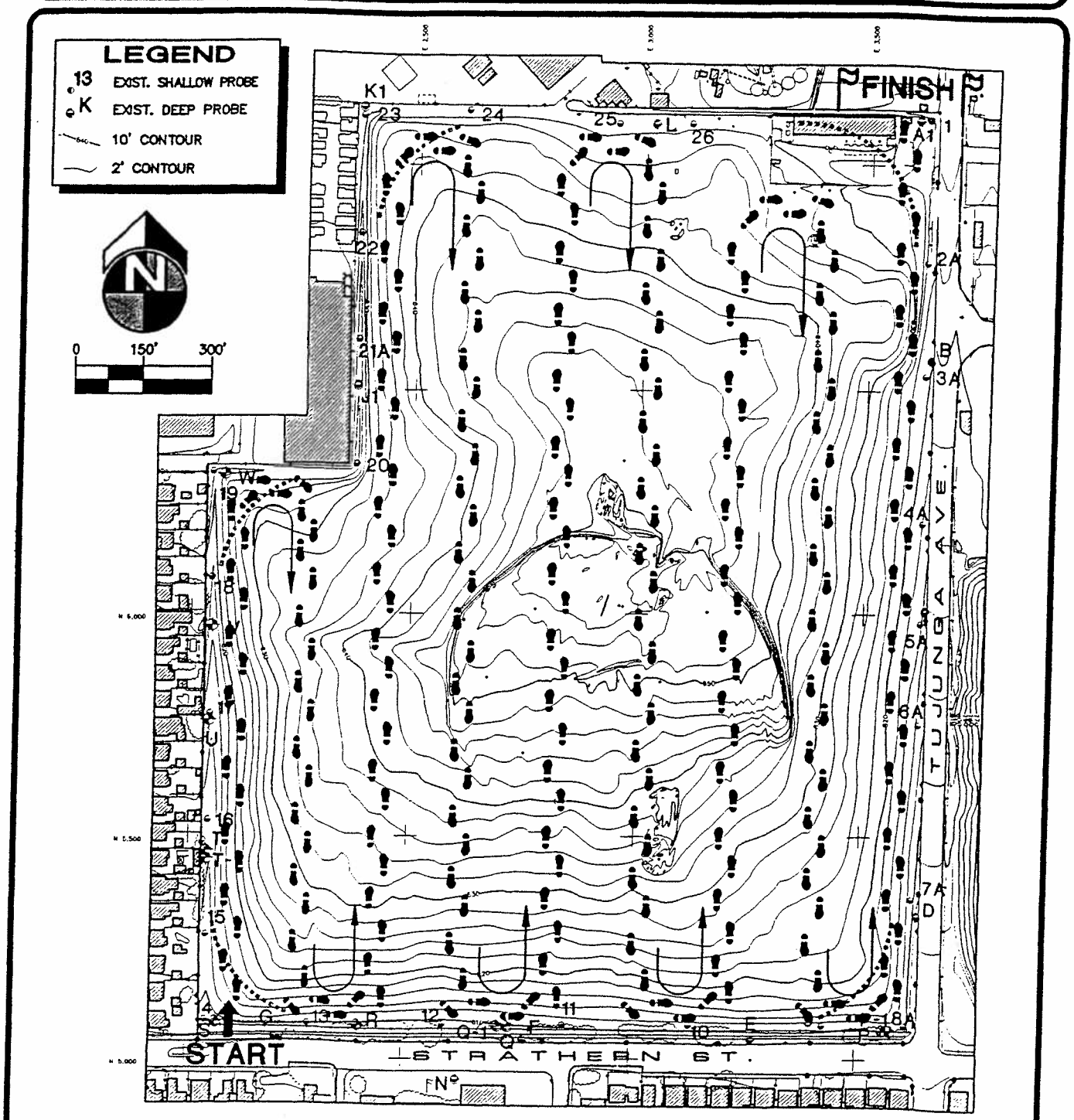
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

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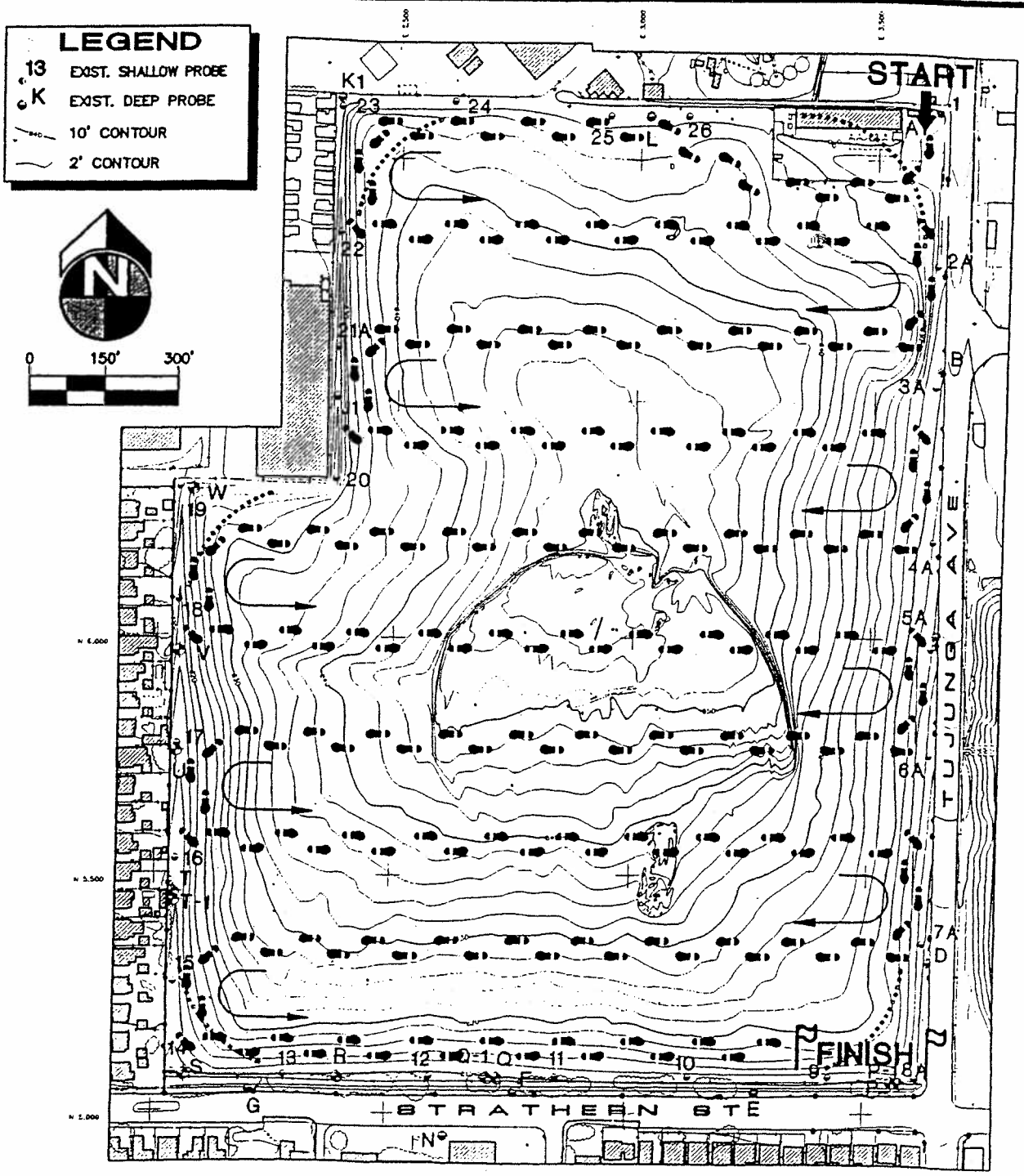
INSTANTANEOUS SURFACE MONITORING



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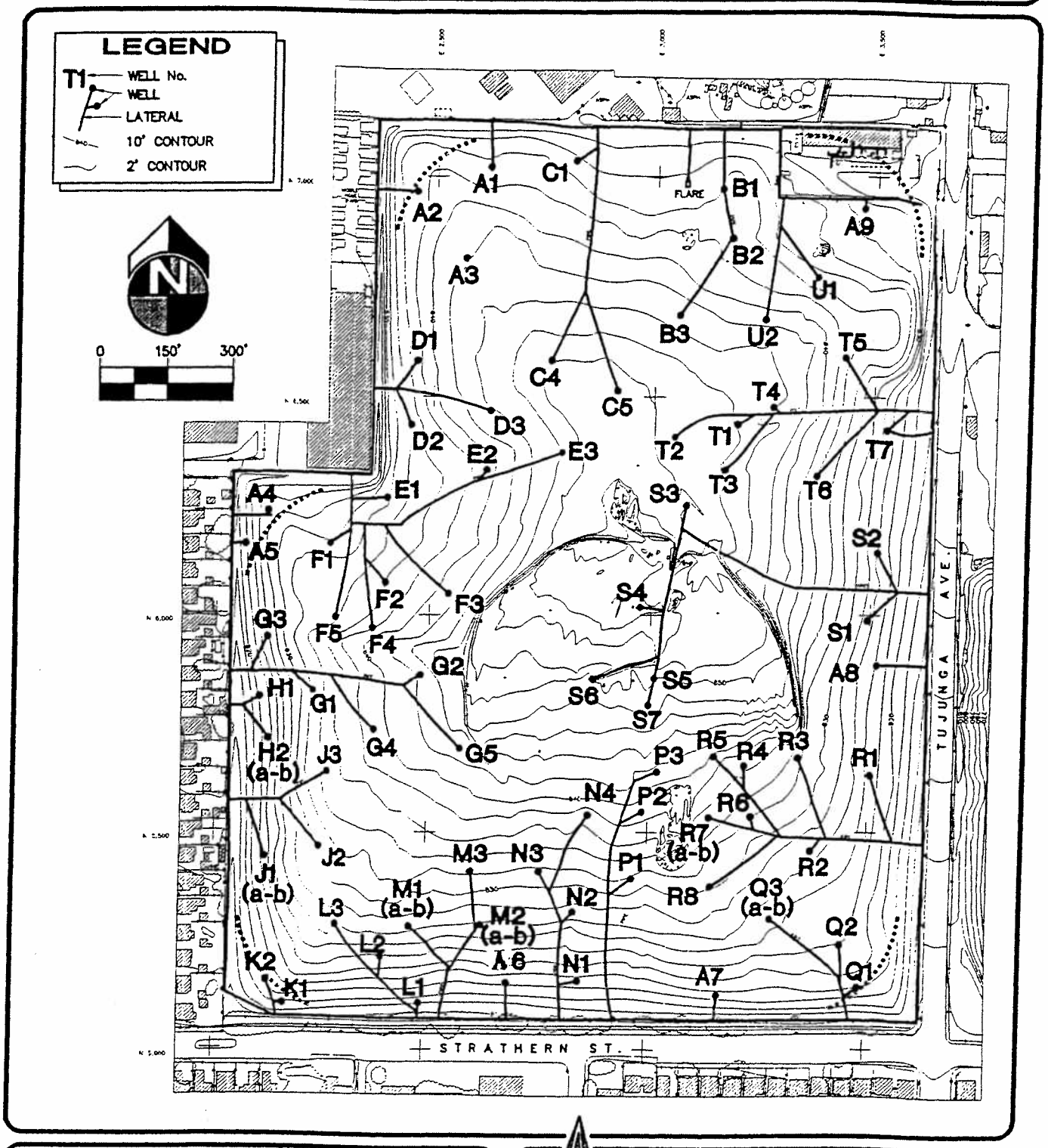
PENROSE LANDFILL
GAS COLLECTION SYSTEM



10-15-96 WELL-SYS

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EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Fourth Quarter, 1997

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JOB NAME: PENROSE

JOB No. J152-6

DATE 10/9/97

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): RIBERT McAllister

REMARKS: There was a High cloud cover and a slight breeze from South determined by an electronic wind speed indicator to be .6 to 2.3 mph. The OVA instrument used in monitor was the FOXBORO 128 last calibrated by Robert McAllister at 8:00 am, 10/9/97. The contractor followed PATH "A". Monitor began at 9:30 a.m. and was finished at 10:55 am, with a result of N.D.

(no wind limit noted in instantaneous regs)
(5 mph limit for integrated surface sampling)

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

October 13, 1997

FILE NO: 72986

LAB NO: 7287145100

SAMPLE: On 10/13/97 at 14:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

October 13, 1997

FILE NO: 72986

LAB NO: 7287145100

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakamoto

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 10/29/97

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: HOT WEATHER! Bright sunshine with few clouds. Electronic wind speed indicator detected ND for wind velocity. Last rainfall was over 76 hours ago.

All air samples were collected in 10-liter Tedlar bags and placed in a black trash bag for protection from sunlight. OVA meter used was a FOXBORO 128 last calibrated by Robert McAllister 10/9/97. H_2S tests were done with Drager tubes and a Drager pump. TOC tests were done with a Natural Gas Indicator model # NPI-204, last calibrated by J.G. Tucker and Son on 2-18-96. ISS

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J752-6

DATE 10/29/97

REMARKS CONTINUED: samples were collected with its own internal power supply, which collected samples at 400 cc/min.

ISS # 19 was collected at 10:15 am and tested for H_2S (ND) and OVA (ND). ISS #20 was collected at 10:40 am and tested for H_2S (ND) and OVA (ND). The TSI sample was collected at 11:12 am was tested for H_2S (100 ppm) and TOC (44%). The PPS #3A was collected at 11:50 Am and tested for H_2S (ND) and TOC (ND).

Robert Medlin
INSPECTOR

PRINCIPAL

SHEET__OF__

CONFIDENTIA

J152-6

Los Angeles By-Products Co.
incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE	10/29/97
JOB No.	J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS
TIME	HOT - NO WIND -
INSTRUMENT	
PARAMETER	

PROBE #	H_2S	TOC
1		
2 A		
3 A	ND	ND
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		

PROBE #						H_2S	TOC
A-1				R	10'		
B					40'		
C	GREEN-21'		-		80'		
	YELLOW-41'				120'		
	ORANGE-61'			S	10'		
	RED - 81'				40'		
D					80'		
E					120'		
F				T	10'		
G					40'		
J-1					73'		
K-1				T-1	72'		
L	GREEN-45'			U	10'		
	YELLOW-65'				37'		
	ORANGE-85'				68'		
	RED - 105'			V	10'		
N	GREEN-22'				40'		
	YELLOW-45'				73'		
	ORANGE-68'			W	10'		
	RED - 90'				40'		
P	10'				80'		
	40'				120'		
	80'				158'		
P-1	120'					H_2S	TOC
Q	10'			TSI		100ppm	44%
	40'						
	75'					H_2S	OVA
Q-1	120'				ISS #19	ND	ND
	158'				ISS #20	ND	ND

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, C. 3021 TEL (818)707-3036 FAX (818)707-3012

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

November 5, 1997

FILE NO: 70237

LAB NO: 7307112000

SAMPLE: On 10/31/97 at 13:20, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

November 5, 1997

FILE NO: 70237

LAB NO: 7307112000

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

F Fernando

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

November 11, 1997

RECEIVED
NOV 17 1997

FILE NO: 72986

LAB NO: 7314114600

SAMPLE: On 11/07/97 at 15:45, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

November 11, 1997

FILE NO: 72986

LAB NO: 7314114600

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Ol	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

for Ronald Bateman

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakamoto

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/24/97

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 71-85, 33°-55°, 86°-100°, 56°-70°, >100° F | chill, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: High clouds were visible. The electronic wind speed indicator detected ND. The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllistor on 11/24/97. The contractor followed PATH "B" and began monitor at 8:40 AM and finished monitor 10:00 am. The result of monitor was ND. Last recorded rainfall was over 72 hours ago.

☐ REINSPECTION REQUIRED

Robert McAllistor
INSPECTOR

PRINCIPAL

SHEET OF

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

December 2, 1997

RECEIVED
DEC 0 J 1997

FILE NO: 70237

LAB NO: 7329122100

SAMPLE: On 11/24/97 at 14:15, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

December 2, 1997

FILE NO: 70237

LAB NO: 7329122100

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/25/97

INSPECTION REPORT

CLIMATE: (bright) cloudy / clear / overcast / fog / rain

<32° F / 33°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F

(still) / breeze / wind

dry / (moderate) / humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: All air samples were collected in 10-liter Tedlar Bags and placed into a Black trash bag for protection from sunlight. The ISS samples were collected with a portable self contained unit with its own internal power supply, which collected samples at 400 cc/min. The OVA instrument used was the Foxboro 128 last calibrated by Robert McAllister 11/24/97. The H_2S tests were done with Drager tubes and a Drager Pump. The TOC instrument used was a Natural Gas Indicator model #npl-204 last calibrated by J.G. Tucker and Son on 2-18-96.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

001

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/25/97

REMARKS CONTINUED:

The electronic wind speed indicator detected an ND. Last recorded rainfall was over 72 hours ago.

ISS #21 was collected at 9:40 am and tested for H_2S (ND) and OVA (ND). ISS #22 was collected at 10:10 am and tested for OVA (ND) and H_2S (ND). PPS U 68' was collected at 11:50 AM and tested for TOC (29.5%) and H_2S (ND). The TSI was collected at 2:00 pm and tested for TOC (45%) and H_2S (100 ppm).

Robert madrid
INSPECTOR

PRINCIPAL

SHEET__OF__

001200

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 11-25-97

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS
TIME	ISS # 21 9:40 AM
INSTRUMENT	ISS #22 10:10 AM
	PPS U 68' 11:50 AM
PARAMETER	TSI 2:00 PM

PROBE #	CH4	H2S
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		

PROBE #		CH4	H2S
	A-1		
	B		
C	GREEN-21'		
C	YELLOW-41'		
C	ORANGE-61'		
C	RED - 81'		
	D		
	E		
	F		
	G		
	J-1		
	K-1		
L	GREEN-45'		
L	YELLOW-65'		
L	ORANGE-85'		
L	RED - 105'		
N	GREEN-22'		
N	YELLOW-45'		
N	ORANGE-68'		
N	RED - 90'		
P	10'		
P	40'		
P	80'		
P-1	120'		
Q	10'		
Q	40'		
Q	75'		
Q-1	120'		
Q-1	158'		

PROBE #	depth	CH4	H2S
R	10'		
R	40'		
R	80'		
R	120'		
S	10'		
S	40'		
S	80'		
S	120'		
T	10'		
T	40'		
T	73'		
T-1	72'		
U	10'		
U	37'	TOC	H_2S
U	68'	29.5%	ND
V	10'		
V	40'		
V	73'		
W	10'		
W	40'		
W	80'		
W	120'		
W	158'		
		TOC	H_2S
TSI		45%	100 ppm
		OVA	H_2S
	ISS #21	ND	ND
	ISS #22	ND	ND

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
680 WALNUT STREET MOORPARK, C. 93021 TEL (818)707-3036 FAX (818)707-3012

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

December 18, 1997

FILE NO: 72986

LAB NO: 7351124500

SAMPLE: On 12/15/97 at 14:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

December 18, 1997
~~November 11,~~ 1997

Page 2

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

FILE NO: 72986

LAB NO: 7351124500

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Gerardo Sayin H. FOR:

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakamoto

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6

DATE 12/17/97

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | breeze, wind | dry, humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Contractor followed path 'A'. According to an electronic wind speed indicator a South wind at .3 to 2.7 mph. was evident during monitor. Last recorded rainfall was over 72 hours ago. Monitor began at 9:09 am and was completed by 10:41 am with a result of N.D. Instrument used in monitor was a FOXBORO 128 last calibrated by Robert McAllister on 11/24/97.

☐ REINSPECTION REQUIRED

Robt mcallist
INSPECTOR

PRINCIPAL

SHEET__OF__

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 12/23/97

INSPECTION REPORT

CLIMATE:

bright / clear / fog	cloudy / overcast / rain	<32° F / 33°-55° / 56°-70°	71°-85° / 86°-100° / >100° F	still / breeze / wind	dry / moderate / humid

LOCATION: PENROSE

PURPOSE: Perimeter Probe Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Contractor used a Toc instrument, a Natural Gas Indicator model #npl-204 last calibrated by J.G. Tucker and Son on 2-18-96. Contractor monitored only probe U at 68' with a result of ND. This monitor was a follow up due to a 34% level discovered on November 21, 1997 by David Thompson.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET __ OF __

001294

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

December 30, 1997

RECEIVED
JAN 05 1998

FILE NO: 70237

LAB NO: 7363145400

SAMPLE: On 12/26/97 at 13:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

December 30, 1997

FILE NO: 70237

LAB NO: 7363145400

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 1/8/98

INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still
clear	overcast	33°-55°	86°-100°	breeze
fog	rain	56°-70°	>100° F	wind

dry / moderate / humid

LOCATION: PENROSE

PURPOSE: ISS, PSI, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was cool with a high cloud cover and no detectable wind according to an electronic wind speed indicator. Last recorded rainfall was over 72 hours ago.

The ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min. The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister 11/24/97. The H_2S tests were done with a Drager tube and a Drager Pump. The TOC instrument used was a Natural Gas Indicator model #npl-204 last calibrated by J.G.

☒ REINSPECTION REQUIRED monitor Probe U 68'

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 1/8/98

REMARKS CONTINUED: Tucker and Son on 2-18-96. All air samples were collected in 10-liter Tedlar bags and placed into a black trash bag for protection from sunlight.

ISS #21 was collected at 10:15 AM and tested for H_2S (ND) and OVA (ND). ISS #22 was collected at 10:50 AM and tested for H_2S (ND) and OVA (ND). PPS U-68' was collected at 11:40 AM and tested for TOC (21%) and H_2S (ND). The TSI was collected at 12:50 pm. and tested for TOC (46%) and H_2S (100 ppm).

Robert Mallitt
INSPECTOR

PRINCIPAL

SHEET__OF__

001293

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J152-6

Los Angeles By-Products Co.
incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 1/8/98

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS – High Clouds - Cool Temp. Slight WEST/South wind
TIME	ISS-21 - 10:15 Am
INSTRUMENT	ISS-22 - 10:50 Am
	PPSU 68' - 11:40 Am
PARAMETER	TSI - 12:50 PM

PROBE #			PROBE #							
1			A-1			R	10'			
2 A			B				40'			
3 A			C	GREEN-21'			80'			
4 A				YELLOW-41'			120'			
5 A				ORANGE-61'		S	10'			
6 A				RED - 81'			40'			
7 A			D				80'			
8 A			E				120'			
9			F			T	10'			
10			G				40'			
11			J-1				73'			
12			K-1			T-1	72'			
13			L	GREEN-45'		U	10'			
14				YELLOW-65'			37'	TOC	H_2S	
15				ORANGE-85'			68'	21%	ND	
16				RED - 105'		V	10'			
17			N	GREEN-22'			40'			
18				YELLOW-45'			73'			
19				ORANGE-68'		W	10'			
20				RED - 90'			40'			
21 A			P	10'			80'			
22				40'			120'			
23				80'			158'			
24			P-1	120'						
25			Q	10'		TSI		46%	100ppm	
26				40'						
				75'				OUA	H_2S	
			Q-1	120'			ISS 21	ND	ND	
				158'			ISS 22	ND	ND	

STEPHCH ASSOCIATES, Inc. METHANE SPECIALISTS 620 WALNUT STREET MOORPARK, C. 93021 TEL (818)707-3036 FAX (818)707-3012

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EXHIBIT D

Laboratory Analytical Results - Fourth Quarter, 1997

CONFIDENTIAI

Calscience
Environmental
Laboratories, Inc.

ACCREDITED

November 06, 1997

Robert McAllister
L.A. By Products/Sepich Associates, Inc.
1810 East 25th Street
Los Angeles, CA 90058

Subject: **Calscience Work Order Number:** **97-10-489**
Client Reference: ***Penrose Landfill/J152-6***

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/30/97 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

William H. Christensen
Deliverables Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	10/29/97
1810 East 25th Street	Date Received:	10/30/97
Los Angeles, CA 90058	Date Analyzed:	10/31/97
	Work Order No.:	97-10-489
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reportable Limit
Sample Number: ISS #19		
Methane	3	1
TGNMO	39	1
Sample Number: ISS #20		
Methane	3	1
TGNMO	5	1
Sample Number: TSI		
Oxygen plus Argon	0.9*	0.1
Nitrogen	18.3*	0.1
Methane	37.1*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	39.8*	0.1
TGNMO	742	1
Sample Number: PPS #3A		
Methane	3	1
TGNMO	20	1

*Reported in % by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	10/29/97
1810 East 25th Street	Date Received:	10/30/97
Los Angeles, CA 90058	Date Analyzed:	10/31/97
	Work Order No.:	97-10-489
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Sample Number: Method Blank #1

Methane	ND	1
TGNMO	ND	1

Sample Number: Method Blank #2

Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: TSI (Duplicate)				
Oxygen plus Argon	0.9*	0.8*	12	0 - 25
Nitrogen	18.3*	18.1*	1	0 - 25
Methane	37.1*	37.1*	0	0 - 25
Carbon Monoxide	ND*	ND*	NA	0 - 25
Carbon Dioxide	39.8*	40.0*	1	0 - 25
TGNMO	742	757	2	0 - 25

*Results reported in % by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-10-489		
QC Batch ID:	971031	Date Collected:	10/29/97
Matrix:	Air	Date Received:	10/30/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	10/31/97

Client Sample Number: **ISS #19**
Lab Sample Number: 97-10-489-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	2.3	0.5		ppb (v/v)
Benzene	1.9	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	21.0	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.5	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	7.7	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	4.4	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-10-489		
QC Batch ID:	971031	Date Collected:	10/29/97
Matrix:	Air	Date Received:	10/30/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	10/31/97

Client Sample Number: **ISS #20**
Lab Sample Number: 97-10-489-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	2.6	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	42.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	8.8	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	4.5	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-10-489		
QC Batch ID:	971031	Date Collected:	10/29/97
Matrix:	Air	Date Received:	10/30/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	10/31/97

Client Sample Number: TSI
Lab Sample Number: 97-10-489-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	440	120		ppb (v/v)
Acetonitrile	ND	250		ppb (v/v)
1,1-Dichloroethene	ND	120		ppb (v/v)
Methylene Chloride	ND	500		ppb (v/v)
1,1-Dichloroethane	ND	120		ppb (v/v)
Chloroform	ND	120		ppb (v/v)
1,2-Dichloroethane	ND	120		ppb (v/v)
1,1,1-Trichloroethane	ND	120		ppb (v/v)
Benzene	1220	120		ppb (v/v)
Carbon Tetrachloride	ND	120		ppb (v/v)
Toluene	16500	120		ppb (v/v)
Trichloroethene	ND	120		ppb (v/v)
Tetrachloroethene	170	120		ppb (v/v)
Chlorobenzene	1770	120		ppb (v/v)
Xylenes (total)	22400	380		ppb (v/v)
Benzyl Chloride	ND	120		ppb (v/v)
1,3-Dichlorobenzene	ND	120		ppb (v/v)
1,4-Dichlorobenzene	1280	120		ppb (v/v)
1,2-Dichlorobenzene	ND	120		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-10-489		
QC Batch ID:	971031	Date Collected:	10/29/97
Matrix:	Air	Date Received:	10/30/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	10/31/97

Client Sample Number: **PPS #3A**
Lab Sample Number: 97-10-489-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	0.6	0.5		ppb (v/v)
Benzene	1.5	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	19.0	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	6.4	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	4.0	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-10-489		
QC Batch ID:	971031	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	10/31/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-350

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

LCS/LCSD Batch Number:	971031	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	10/31/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	107	108	60-140	0	0-30	
1,2-Dichloroethane	110	108	60-140	1	0-30	
Benzene	102	105	60-140	2	0-30	
Carbon Tetrachloride	109	111	60-140	1	0-30	
Trichloroethene	104	103	60-140	0	0-30	
Tetrachloroethene	111	111	60-140	0	0-30	
1,4-Dichlorobenzene	120	122	60-140	1	0-30	
1,2-Dichlorobenzene	119	119	60-140	0	0-30	

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(489)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	10-29-97

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

ROBERT McAllister — JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		FIXED GAS			TOC	REMARKS
J152-6	10/29 97	10:15 AM	C	1	ISS #19	✓	✓	✓						
J152-6	10/29 97	10:40 AM	C	1	ISS #20	✓	✓	✓						
J152-6	10/29 97	11:12 AM	G	1	TSI	✓	✓			✓				
J152-6	10/29 97	11:50 AM	G	1	PPS #3A	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS CO.	10-30-97	
RECEIVED BY:	[illegible]	Cal Science	10-30-97	1500
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:	[illegible]	Cal Science	10-30-97	1820
RECEIVED BY:	[illegible]	Calscience	10/30/97	1820

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	11/25/97
1810 East 25th Street	Date Received:	11/26/97
Los Angeles, CA 90058	Date Analyzed:	11/26/97
	Work Order No.:	97-11-496
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Analyte	Concentration	Reportable Limit
Sample Number: ISS #21		
Methane	1.8*	0.1
TGNMO	54	1
Sample Number: ISS #22		
Methane	3	1
TGNMO	17	1
Sample Number: PPS U 68'		
Methane	23.7*	0.1
TGNMO	168	1
Sample Number: TSI		
Oxygen plus Argon	0.6*	0.1
Nitrogen	15.1*	0.1
Methane	38.2*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	40.9*	0.1
TGNMO	786	1

*Reported in % by volume.

001311

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-11-496		
QC Batch ID:	971126	Date Collected:	11/25/97
Matrix:	Air	Date Received:	11/26/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	11/26/97

Client Sample Number: **TSI**
Lab Sample Number: 97-11-496-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	322	25		ppb (v/v)
Acetonitrile	ND	50		ppb (v/v)
1,1-Dichloroethene	ND	25		ppb (v/v)
Methylene Chloride	ND	100		ppb (v/v)
1,1-Dichloroethane	ND	25		ppb (v/v)
Chloroform	ND	25		ppb (v/v)
1,2-Dichloroethane	ND	25		ppb (v/v)
1,1,1-Trichloroethane	ND	25		ppb (v/v)
Benzene	1370	25		ppb (v/v)
Carbon Tetrachloride	ND	25		ppb (v/v)
Toluene	13600	100		ppb (v/v)
Trichloroethene	194	25		ppb (v/v)
Tetrachloroethene	178	25		ppb (v/v)
Chlorobenzene	1430	25		ppb (v/v)
Xylenes (total)	17400	300		ppb (v/v)
Benzyl Chloride	994	25		ppb (v/v)
1,3-Dichlorobenzene	ND	25		ppb (v/v)
1,4-Dichlorobenzene	830	25		ppb (v/v)
1,2-Dichlorobenzene	ND	25		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-11-496		
QC Batch ID:	971126	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	11/26/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-364

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		[illegible] v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	971126	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	11/26/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	94	95	60-140	1	0-30	
1,2-Dichloroethane	99	98	60-140	1	0-30	
Benzene	85	84	60-140	1	0-30	
Carbon Tetrachloride	100	101	60-140	0	0-30	
Trichloroethene	97	98	60-140	1	0-30	
Tetrachloroethene	90	88	60-140	2	0-30	
1,4-Dichlorobenzene	104	105	60-140	0	0-30	
1,2-Dichlorobenzene	108	108	60-140	0	0-30	

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GLOSSARY OF TERMS AND QUALIFIERS

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Work Order Number: 97-11-496

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	11-25-97

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

	SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
1	J152-6	11-25 97	9:40 Am	C	1	ISS # 21	✓	✓	✓						
2	J152-6	11-25 97	10:10 Am	C	1	ISS # 22	✓	✓	✓						
3	J152-6	11-25 97	10:50 Am	G	1	PPS U 68'	✓	✓							
4	J152-6	11-25 97	2:00 PM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS CO.	11-25-97	
RECEIVED BY:	Roy [illegible]	CASCIENCE	11-26-97	0800
RELINQUISHED BY:	Roy [illegible]	CASCIENCE	11-26-97	0800
RECEIVED BY:	Steph Norwak	CASCIENCE	11-26-97	1000
RELINQUISHED BY:				
RECEIVED BY:				

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	01/08/98 01/09/98 01/09/98
Attn: Robert McAlllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 1 of 3	98-01-127 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: ISS #21

Analyte	Concentration	Reportable Limit
Methane	2	1
TGNMO	6	1

Sample Number: ISS #22

Methane	2	1
TGNMO	4	1

Sample Number: PPS U 68'

Methane	15.7*	0.1
TGNMO	126	1

Sample Number: TSI

Oxygen plus Argon	0.2*	0.1
Nitrogen	15.7*	0.1
Methane	40.3*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	43.8*	0.1
TGNMO	917*	1

* Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	01/08/98
1810 East 25th Street	Date Received:	01/09/98
Los Angeles, CA 90058	Date Analyzed:	01/09/98
	Work Order No.:	98-01-127
Attn: Robert McAlllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: Method Blank #1

Analyte	Concentration	Reportable Limit
Methane	ND	1
TGNMO	ND	1

Sample Number: Method Blank #2

Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1

* Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	01/08/98
1810 East 25th Street	Date Received:	01/09/98
Los Angeles, CA 90058	Date Analyzed:	01/09/98
	Work Order No.:	98-01-127
Attn: Robert McAlllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen plus Argon	0.2*	0.2*	0	0 - 25
Nitrogen	15.7*	15.7*	0	0 - 25
Methane	40.3*	40.2*	0	0 - 25
Carbon Monoxide	ND*	ND*	NA	0 - 25
Carbon Dioxide	43.8*	43.8*	0	0 - 25
TGNMO	917	1060	14	0 - 25

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-127		
QC Batch ID:	980109	Date Collected:	01/08/98
Matrix:	Air	Date Received:	01/09/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	01/09/98

Client Sample Number: **ISS #21**
Lab Sample Number: 98-01-127-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.7	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	5.5	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
p/m-Xylene	2.9	1.0		ppb (v/v)
o-Xylene	1.3	0.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	2.7	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-127		
QC Batch ID:	980109	Date Collected:	01/08/98
Matrix:	Air	Date Received:	01/09/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	01/09/98

Client Sample Number: **ISS #22**
Lab Sample Number: 98-01-127-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.9	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	12.8	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.6	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
p/m-Xylene	3.7	1.0		ppb (v/v)
o-Xylene	1.7	0.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	2.2	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-127		
QC Batch ID:	980109	Date Collected:	01/08/98
Matrix:	Air	Date Received:	01/09/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	01/09/98

Client Sample Number: **PPS U 68'**
Lab Sample Number: 98-01-127-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	22.2	2.0		ppb (v/v)
Acetonitrile	ND	4.0		ppb (v/v)
1,1-Dichloroethene	10.3	2.0		ppb (v/v)
Methylene Chloride	ND	8.0		ppb (v/v)
1,1-Dichloroethane	ND	2.0		ppb (v/v)
Chloroform	ND	2.0		ppb (v/v)
1,2-Dichloroethane	ND	2.0		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0		ppb (v/v)
Benzene	53.5	2.0		ppb (v/v)
Carbon Tetrachloride	ND	2.0		ppb (v/v)
Toluene	13.3	2.0		ppb (v/v)
Trichloroethene	ND	2.0		ppb (v/v)
Tetrachloroethene	14.9	2.0		ppb (v/v)
Chlorobenzene	ND	2.0		ppb (v/v)
p/m-Xylene	ND	4.0		ppb (v/v)
o-Xylene	ND	2.0		ppb (v/v)
Benzyl Chloride	ND	2.0		ppb (v/v)
1,3-Dichlorobenzene	ND	2.0		ppb (v/v)
1,4-Dichlorobenzene	ND	2.0		ppb (v/v)
1,2-Dichlorobenzene	ND	2.0		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-127		
QC Batch ID:	980109	Date Collected:	01/08/98
Matrix:	Air	Date Received:	01/09/98
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	01/09/98

Client Sample Number: TSI
Lab Sample Number: 98-01-127-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	390	200		ppb (v/v)
Acetonitrile	ND	400		ppb (v/v)
1,1-Dichloroethene	ND	200		ppb (v/v)
Methylene Chloride	ND	800		ppb (v/v)
1,1-Dichloroethane	ND	200		ppb (v/v)
Chloroform	ND	200		ppb (v/v)
1,2-Dichloroethane	ND	200		ppb (v/v)
1,1,1-Trichloroethane	ND	200		ppb (v/v)
Benzene	2230	200		ppb (v/v)
Carbon Tetrachloride	ND	200		ppb (v/v)
Toluene	24200	200		ppb (v/v)
Trichloroethene	360	200		ppb (v/v)
Tetrachloroethene	410	200		ppb (v/v)
Chlorobenzene	3400	200		ppb (v/v)
p/m-Xylene	29000	400		ppb (v/v)
o-Xylene	16900	200		ppb (v/v)
Benzyl Chloride	ND	200		ppb (v/v)
1,3-Dichlorobenzene	ND	200		ppb (v/v)
1,4-Dichlorobenzene	5410	200		ppb (v/v)
1,2-Dichlorobenzene	ND	200		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	98-01-127		
QC Batch ID:	980109	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	01/09/98

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-383

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
p/m-Xylene	ND	1.0		ppb (v/v)
o-Xylene	ND	0.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	980109	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	01/09/98

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	105	105	60-140	0	0-30	
1,2-Dichloroethane	98	99	60-140	1	0-30	
Benzene	82	81	60-140	1	0-30	
Carbon Tetrachloride	87	86	60-140	1	0-30	
Trichloroethene	105	108	60-140	2	0-30	
Tetrachloroethene	78	82	60-140	5	0-30	
1,4-Dichlorobenzene	106	107	60-140	0	0-30	
1,2-Dichlorobenzene	102	105	60-140	2	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	1/8/98

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
J152-6	1/8 98	10:15 Am	C	1	ISS #21	✓	✓		✓					
J152-6	1/8 98	10:50 Am	C	1	ISS #22	✓	✓		✓					
J152-6	1/8 98	11:40 Am	G	1	PPS U 68'	✓	✓							
J152-6	1/8 98	12:50 PM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	1/9/98	9:00 Am
RECEIVED BY:	[illegible]	CONSCIENCE	1/9/98	9:00 Am
RELINQUISHED BY:	[illegible]	CONSCIENCE	1/9/98	1132
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	calscience	1/9/98	1146

001326

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EXHIBIT E

Laboratory Analytical Results - Source Test, 1997

(Inlet and Exhaust Results)

CONFIDENTIA

Facility ID: 043536 Name: Pacific Energy/Penrose Landfill

Address: 5050 Mt. Hollywood Drive

City: Los Angeles Zip: 90040

Test Date: 8/22/97 Test Status (P/F): Pass District Fee: $ N/A

Test Firm: Horizon R217 Status: No problems

Invoice #: 11956 Contract Fee: $ 1460.00 Invoice Date: 9-18-97

Last Test #: 96-CST044-A Last Test Date: 8/20/96 Last Test Status: Pass

EQUIPMENT INFORMATION

BCAT: BCAT Description: Unit #: Engine #5

CCAT: CCAT Description:

REPORT INFORMATION

Rpt Issued Date: 9/19/97 District Issued Date: 10-8-97

Appl #: 291396 Permit #: D86201 Co. Contact & Phone: Almo Pladson (213)662-3475

Rule	Measured	Allowed	Comment
1110.1	91.0 ppm @ 15% O_2	150 ppm @ 15% O_2	IC Engine #5 - NO_x
407(a)(1)	408.4 ppm	2000 ppm	IC Engine #5 - CO
431.1	50.8 ppm *	150	IC Engines #5 - H_2S

* For information only.

HORIZON AIR MEASUREMENT SERVICES, INC.
E43-053-FRC • Appendices

056

CONTRACT SOURCE TESTING DATA ENTRY FORM

Denotes Mandatory Entry For Test Firm

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Invoice #: 11955 Contract Fee: $ 1400.00 Invoice Date: 9-18-97

Last Test #: 96-CST044-A Last Test Date: 8/20/96 Last Test Status: Pass

EQUIPMENT INFORMATION

BCAT: BCAT Description: Unit #: Engine #3

CCAT: CCAT Description:

REPORT INFORMATION

Rpt Issued Date: 9/19/97 District Issued Date: 10-8-97

Appl #: 291392 Permit #: D86199 Co. Contact & Phone: Almo Pladson (213)662-3475

Rule	Measured	Allowed	Comment
1110.1	78.3 ppm @ 15% O_2	150 ppm @ 15% O_2	IC Engine #3 - NO_x
407(a)(1)	408.5 ppm	2000 ppm	IC Engine #3 - CO
431.1	50.8 ppm *	150	IC Engines #3 - H_2S

* For information only

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S43-059-FRB • Appendices

056

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CONTRACT SOURCE TESTING DATA ENTRY FORM

[ ] Denotes Mandatory Entry For Test Firm

TEST INFORMATION

Test Number: 97-CST053-A

Facility ID: 043536

Name: Pacific Energy/Penrose Landfill

Address: 5050 Mt. Hollywood Drive

City: Los Angeles Zip: 90040

Test Date: 8/22/97

Test Status (P/F): Pass

District Fee: $ N/A

Test Firm: Horizon

R217 Status: No problems

Invoice #: 11954

Contract Fee: $ 1460.00

Invoice Date: 9-18-97

Last Test #: 96-CST044-A

Last Test Date: 8/20/96

Last Test Status: Pass

EQUIPMENT INFORMATION

BCAT:

BCAT Description:

Unit #: Engine #2

CCAT:

CCAT Description:

REPORT INFORMATION

Rpt Issued Date: 9/19/97

District Issued Date: 10-8-97

Appl #: 291391

Permit #: D86198

Co. Contact & Phone: Paul Nakamoto (213)895-5600
Almo Pladson (213)662-3475

Rule	Measured	Allowed	Comment
1110.1	73.8 ppm @ 15% O_2	150 ppm @ 15% O_2	IC Engine #2 - NO_x
407(a)(1)	370.2 ppm	2000 ppm	IC Engine #2 - CO
431.1	50.8 ppm *	150	IC Engines #2 - H_2S

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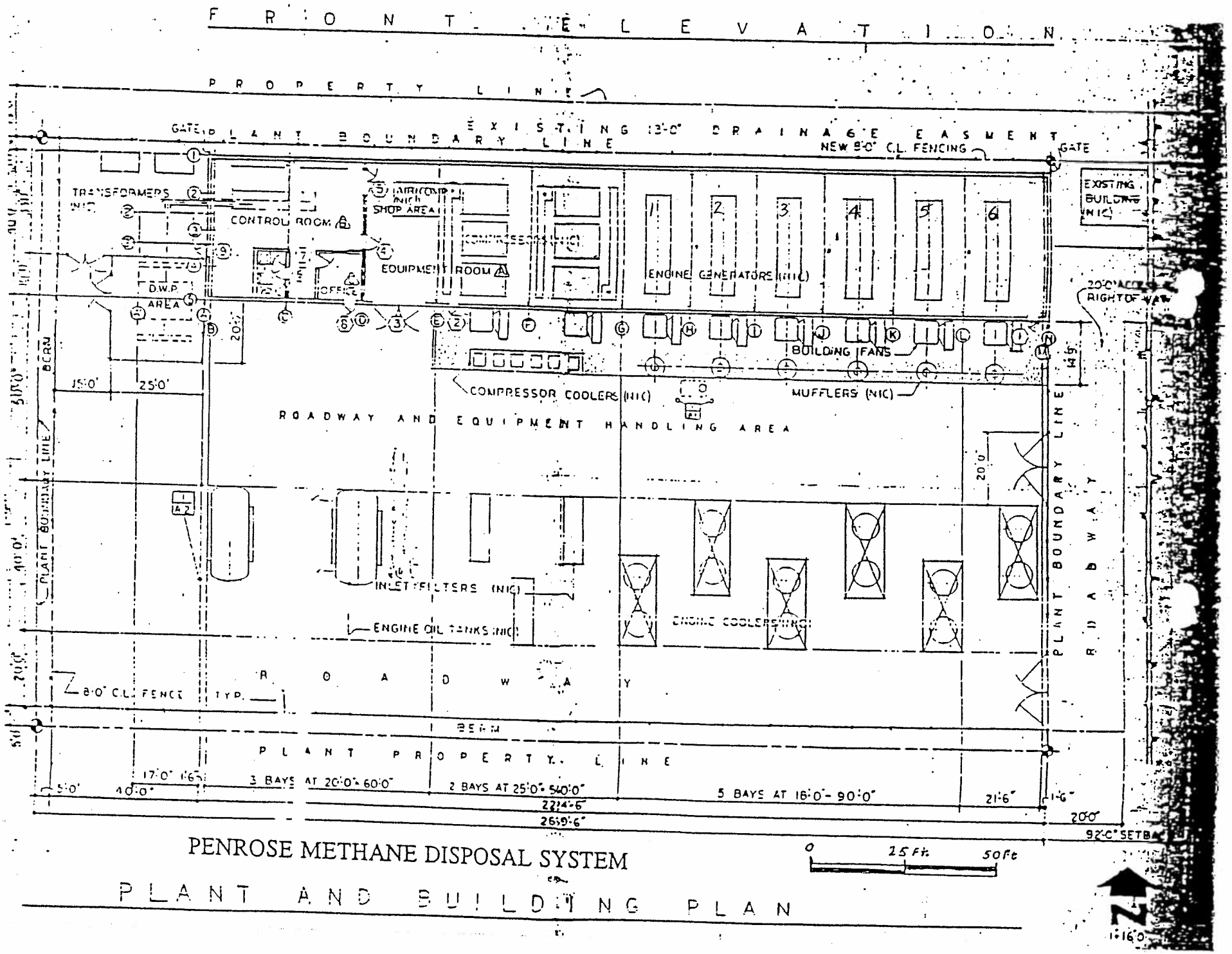

PENROSE METHANE DISPOSAL SYSTEM

PLANT AND BUILDING PLAN

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Caiscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 08/22/97
Date Received: 08/22/97
Date Analyzed: 08/22/97

Work Order No.: 97-08-354
Method: SCAQMD 25.1
Page 1 of 2

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: PPS #25 (Perimeter Probe System #25) see map

Analyte	Concentration	Reportable Limit
Methane	3	1
TGNMO	10	1

Sample Number: TSI

Oxygen plus Argon	0.6*	0.1
Nitrogen	16.5*	0.1
Methane	42.6*	0.1
Carbon Dioxide	39.4*	0.1
Carbon Monoxide	ND*	0.1
TGNMO	670	1

Sample Number: Method Blank

Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Carbon Dioxide	ND*	0.1
Carbon Monoxide	ND*	0.1
TGNMO	ND	1

* Reported in percent (%) by volume.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	08/22/97
1810 East 25th Street	Date Received:	08/22/97
Los Angeles, CA 90058	Date Analyzed:	08/22/97
	Work Order No.:	97-08-354
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen plus Argon	0.6*	0.6*	0	0 - 25
Nitrogen	16.5*	16.3*	1	0 - 25
~~Nitrogen~~ METHANE	42.6*	42.6*	0	0 - 25
Carbon Dioxide	39.4*	39.6*	1	0 - 25
Carbon Monoxide	ND*	ND*	NA	0 - 25
TGNMO	670	743	10	0 - 25

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-08-354		
QC Batch ID:	970822	Date Collected:	08/22/97
Matrix:	Air	Date Received:	08/22/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/22/97

Client Sample Number: TSI
Lab Sample Number: 97-08-354-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	710	120		ppb (v/v)
Acetonitrile	ND	250		ppb (v/v)
1,1-Dichloroethene	ND	120		ppb (v/v)
Methylene Chloride	650	500		ppb (v/v)
1,1-Dichloroethane	ND	120		ppb (v/v)
Chloroform	ND	120		ppb (v/v)
1,2-Dichloroethane	ND	120		ppb (v/v)
1,1,1-Trichloroethane	ND	120		ppb (v/v)
Benzene	1600	120		ppb (v/v)
Carbon Tetrachloride	ND	120		ppb (v/v)
Toluene	11600	120		ppb (v/v)
Trichloroethene	480	120		ppb (v/v)
Tetrachloroethene	490	120		ppb (v/v)
Chlorobenzene	1090	120		ppb (v/v)
Xylenes (total)	14000	380		ppb (v/v)
Benzyl Chloride	ND	120		ppb (v/v)
1,3-Dichlorobenzene	ND	120		ppb (v/v)
1,4-Dichlorobenzene	480	120		ppb (v/v)
1,2-Dichlorobenzene	ND	120		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-08-354		
QC Batch ID:	970822	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/22/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-321

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

LCS/LCSD Batch Number:	970822	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	08/22/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	115	121	60-140	5	0-30	
1,2-Dichloroethane	99	102	60-140	2	0-30	
Benzene	99	102	60-140	2	0-30	
Carbon Tetrachloride	99	101	60-140	2	0-30	
Trichloroethene	95	98	60-140	3	0-30	
Tetrachloroethene	95	98	60-140	3	0-30	
1,4-Dichlorobenzene	91	96	60-140	5	0-30	
1,2-Dichlorobenzene	95	96	60-140	1	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	8/22/97

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		Fixed Gas			TOC	REMARKS
J152-6	8/22/97	10:00 AM	G	1	PPS #25	X	X							
J152-6	8/22/97	10:20 AM	G	1	TSI	X	X			X				

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS	8/22/97	10:24 AM
RECEIVED BY:	[illegible]	LOS ANGELES BY-PRODUCTS	8/22/97	10:24 AM
RELINQUISHED BY:	[illegible]	LOS ANGELES BY-PRODUCTS	8/22/97	10:40 AM
RECEIVED BY:	[illegible]	CONSOLENCE	8/22/97	10:40 AM
RELINQUISHED BY:	[illegible]	CONSOLENCE	8/22/97	1230
RECEIVED BY:				

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SEPICH ASSOCIATES, Inc.
and METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

TEL (818) 707-3036
(805) 552-0000
FAX (818) 707-3012
(805) 552-0001

October 11, 1997

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

RECEIVED
OCT 29 1997

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Third Quarter, 1997
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the sixteenth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period July through September 1997. In compliance with the SCAQMD Rule 1150. permit, this quarterly report contains source test information required on an annual bases (see Section A.5 of this report).

Monitoring and sampling for this report was performed on July 14, 28, and 29, August 13, 22, 25, 26, and 28, and September 4, 12, 24, 26, and 29, 1997.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet (referred to as TSI for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Ambient air sampling requirements are not included in the routine quarterly monitoring for Penrose. Per Rule 1150.1 simultaneous source tests at the inlet and outlet of the gas disposal system are done at Penrose on an annual basis, and reported in the next quarterly report after data is available.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less,

a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, July through September 1997, field monitoring was conducted on July 14, 28, and 29, August 13, 22, 25, 26, and 28, and September 4, 12, 24, 26, and 29, 1997. Samples were collected for laboratory analysis on July 29, August 22 and 28, and September 24 and 29, 1997. (see Exhibit C for field documentation).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on July 14 and 29, August 13 and 26, and September 12 and 26, 1997 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 48 hours of sampling.

Perimeter probe sampling was conducted at Probe 22 on July 29, at Probe 25 on August 22, and at Probe R (120') on September 24, 1997. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on July 29, August 28, and September 24, 1997, by focusing sampling efforts in zones where TOC surface sampling had not been conducted recently. During instantaneous surface monitoring, no areas had detectable TOC readings in July, August, or September. On July 29, Areas 13 and 14 were sampled (see Integrated Surface Sampling Map in Exhibit A), on August 28, Areas 15 and 16 were sampled, and on September 24, Areas 17 and 18 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. The ISS field monitoring results for the Third Quarter TOC and H_2S concentrations were all non-detect.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path B was traversed on July 28, and September 4. Path A was traversed on August 25, 1997. In July, August, and September no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Pacific Energy (PE) electrical generation plant inlet pipeline on July 29, August 22, and September 29, 1997. TOC was monitored with a GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were collected on August 22, 1997 and results of inlet analyses are reported in this third quarter 1997 report. LA By-Products Company sampled from an inlet containing Penrose gas only. Exhaust samples were collected from three of the engines at the power plant by Horizon Air Measurement Services, Inc., for the SCAQMD. The exhaust samples are from the mixture of landfill gas from Penrose, Sheldon, and Bradley landfills, that is being burned at the plant.

B.6 Reporting Requirements

This is the sixteenth in a series of quarterly reports and the third quarterly report for Penrose Landfill for 1997. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Positive Lab Service. The early (to mid-) month data is used to select the monthly probe sampling stations and the (mid to) late-month monitoring is used to fulfill any required follow-up probe monitoring. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

July 14, 1997 perimeter probe monitoring results indicated non-detect (ND) readings of TOC from all probes. Probe #22 (3-foot depth) was sampled on July 29, 1997.

Table I - July 1997
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBE SAMPLED ON
July 29, 1997

Probe Number	Depth (feet)	Field Value 7/14/97 (% Vol)	Field Value 7/29/97 (% Vol)	Lab Results 7/29/97 (% Vol)	Follow-up Field Value 7/29/97 (% Vol)
22	3	ND	ND	0.0002	ND

Note: Laboratory samples were collected 7/29/97. Field values are volume percent TOC.

ND None detected.

August 13, 1997 perimeter probe monitoring results indicated non-detect (ND) readings of TOC from all probes. Probe #25 (1.5-foot depth) was sampled on August 22, 1997. Analytical results measured 3 parts per million (ppm) methane.

Table II - August 1997
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
August 22, 1997

Probe Number	Depth (feet)	Field Value 8/13/97 (% Vol)	Field Value 8/22/97 (% Vol)	Lab Result 8/22/97 (% Vol)	Follow-up Field Value 8/26/97 (% Vol)
25	1.5	ND	ND	0.0003	ND

Note: Laboratory samples were collected 8/22/97. Laboratory results are volume percent of methane. Field values are volume percent TOC.

September 12, 1997 perimeter probe monitoring results indicated non-detect TOC from all probes. On September 24, 1997, Probe R at a depth of 120 feet was sampled. Analytical results indicated methane was at a concentration of 1 ppm methane.

Table III - September 1997
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
September 24, 1997

Probe Number	Depth (feet)	Field Value 9/12/97 (% Vol)	Field Value 9/24/97 (% Vol)	Lab Result 9/24/97 (% Vol)	Follow-up Field Value 9/26/97 (% Vol)
R	120	ND	ND	0.0001	ND

Note: Laboratory samples were collected 9/24/97. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NA Not available.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - THIRD QUARTER 1997
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
7/29/97 AREA # 13	3	16
7/29/97 AREA # 14	2	9
8/28/97 AREA # 15	2	6
8/28/97 AREA # 16	2	6
9/24/97 AREA # 17	3	7
9/24/97 AREA # 18	3	9

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Third Quarter of 1997.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 43.2% methane on July 29, 42.6% methane on August 22, and 45.2% methane on September 29, 1997. Dreager tube analytical results were 115 ppm H_2S on July 29, 90 ppm H_2S and August 22, and 105 ppm H_2S on September 29, 1997. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling was conducted on August 22, 1997. The analytical results from the samples collected at the plant inlet, for source testing in 1997, are included in Exhibit E. The analytical results from the exhaust samples collected for source testing are not yet available, these will be reported in the next quarterly report.

C.6 Report Requirements

This report constitutes the 1997, Third Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

High TOC readings were not found by Positive Lab Service during the third quarter monitoring.

Major compliance endeavors enacted by Los Angeles By-Products Company and Pacific Energy in the past several years include:

- Mitigation well (8 wells) program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter, 1995 (including revised and improved gas collection system, see Gas Collection System map in Exhibit A); and
- Replacement probe (A1, K1, and J1) installation in Fourth Quarter, 1995.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 57600
exp. 6-30-2000
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.616/atf

Public Facilities Branch / SCAQMD October 11, 1997

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Mr. David Thompson

California Integrated Waste Management Board

- Mr. Peter Janicke

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Third Quarter, 1997
- EXHIBIT D: Laboratory Analytical Results - Third Quarter, 1997
- EXHIBIT E: Laboratory Analytical Results - Source Tests, 1997 (Plant Inlet Only)

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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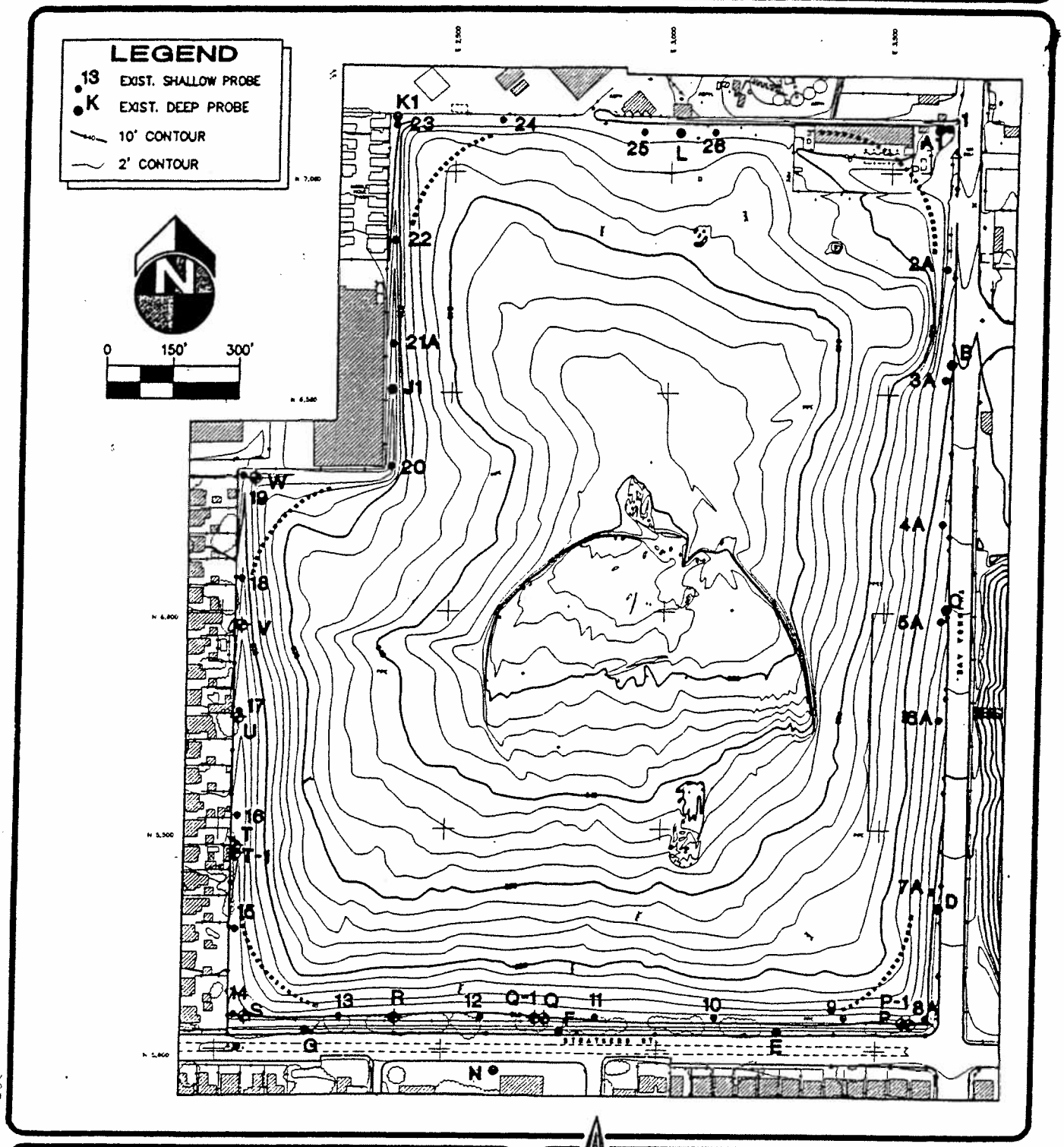
PENROSE LANDFILL
MONITORING PROBE LOCATIONS



SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
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CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

SHEET ___ OF ___

4-22-96 PMAP-LOG

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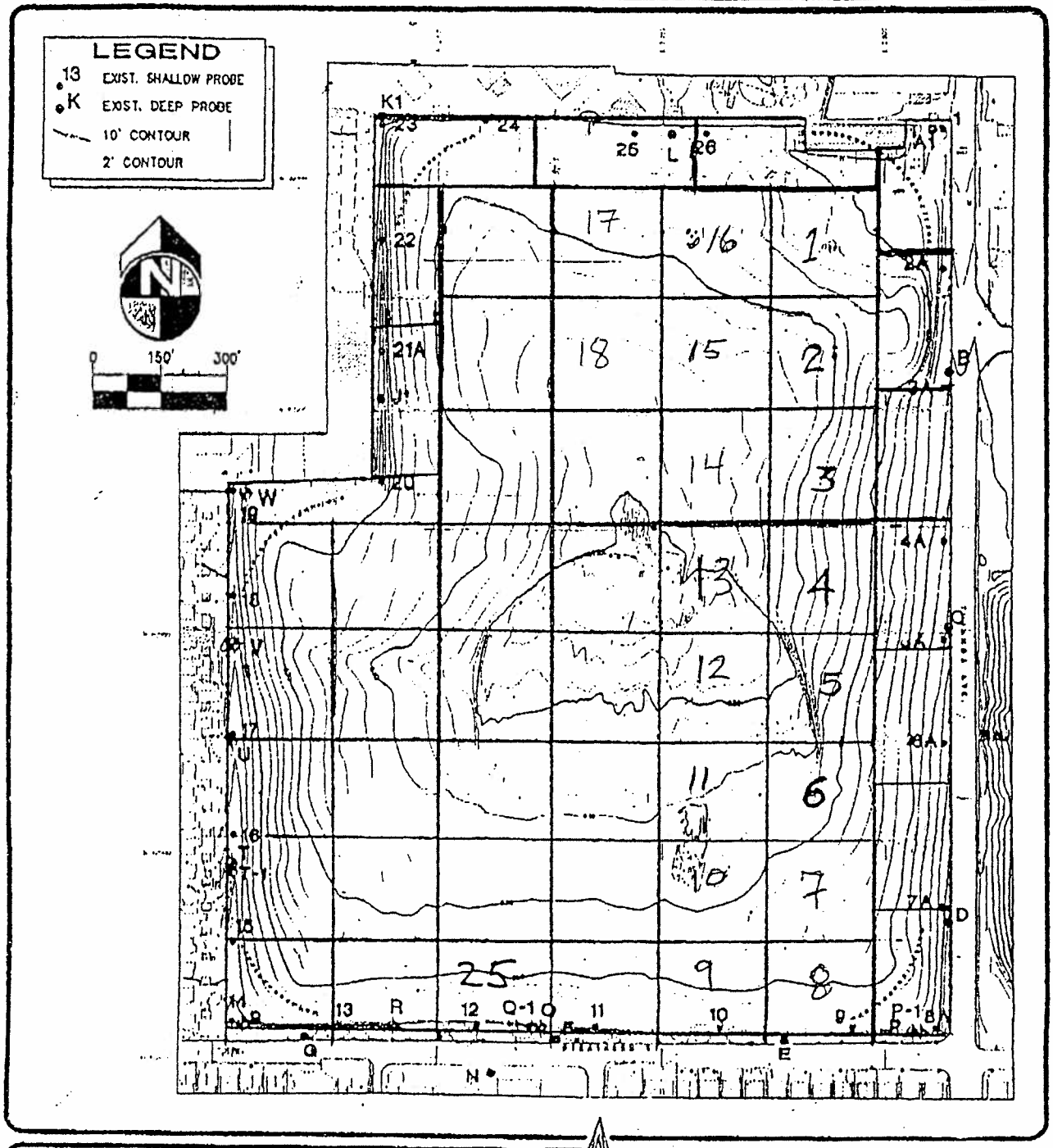
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



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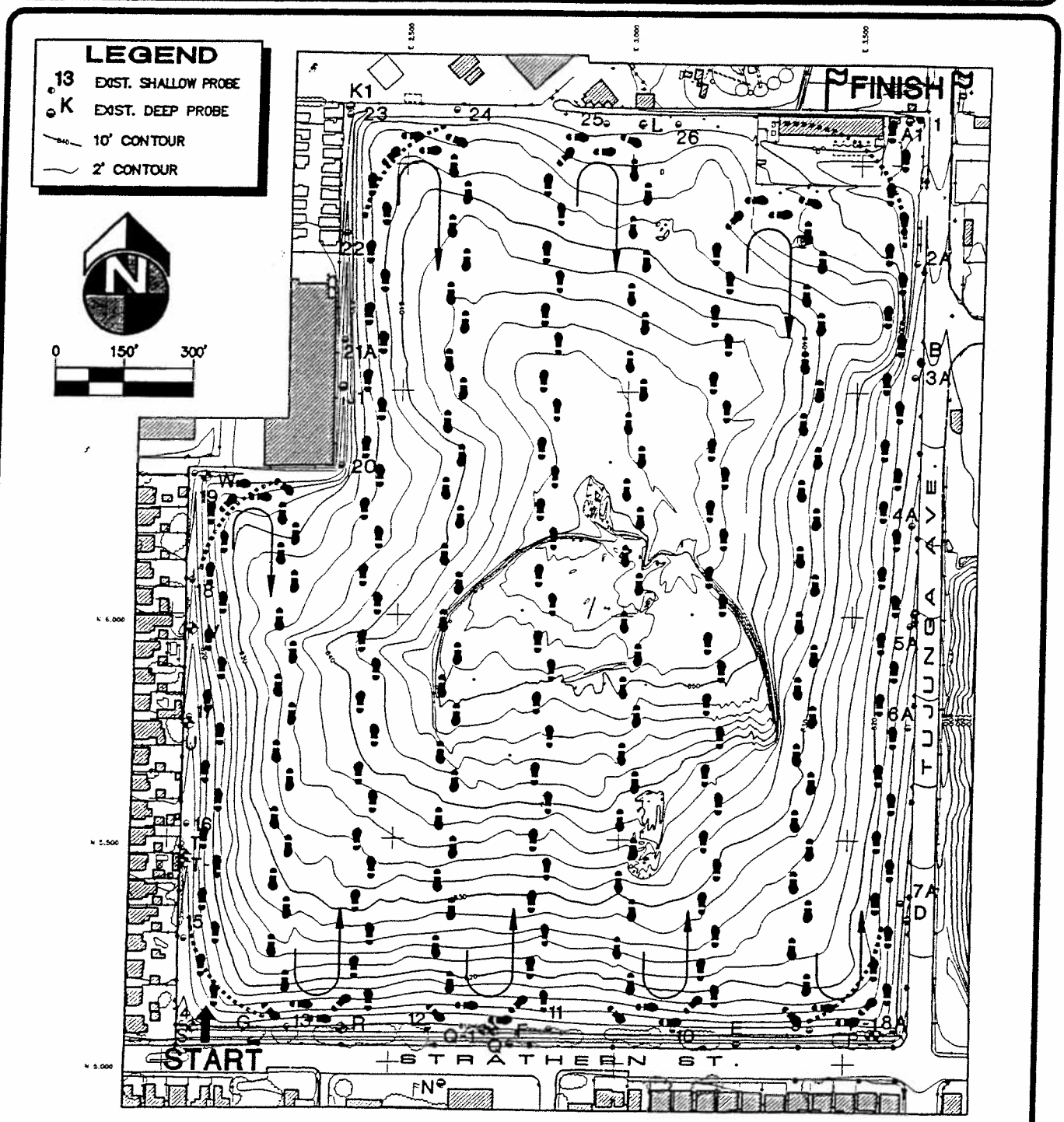
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

4-26-96 J152PATH

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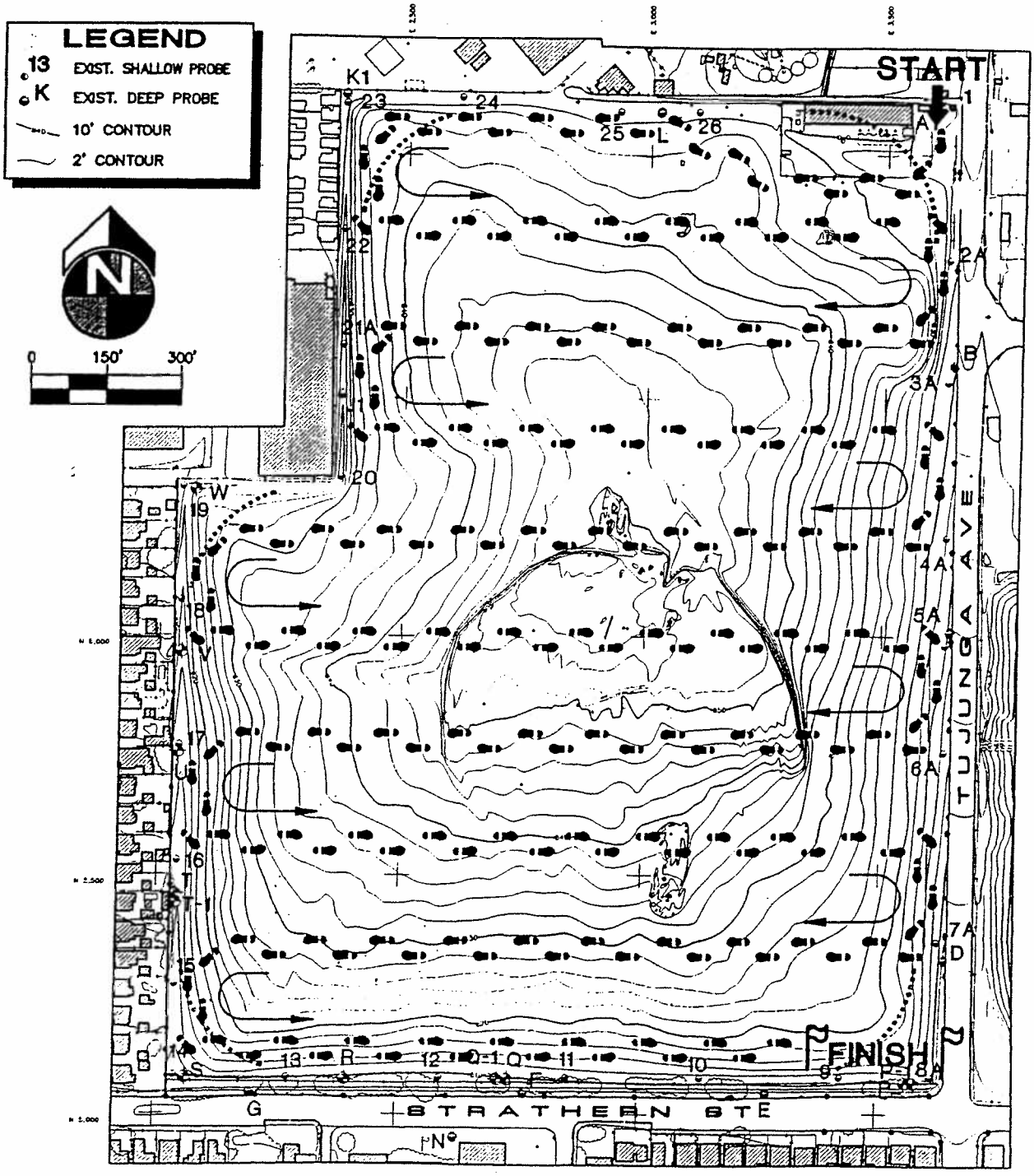
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH B

SEPICH ASSOCIATES, Inc.
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4-26-96 J152PATH

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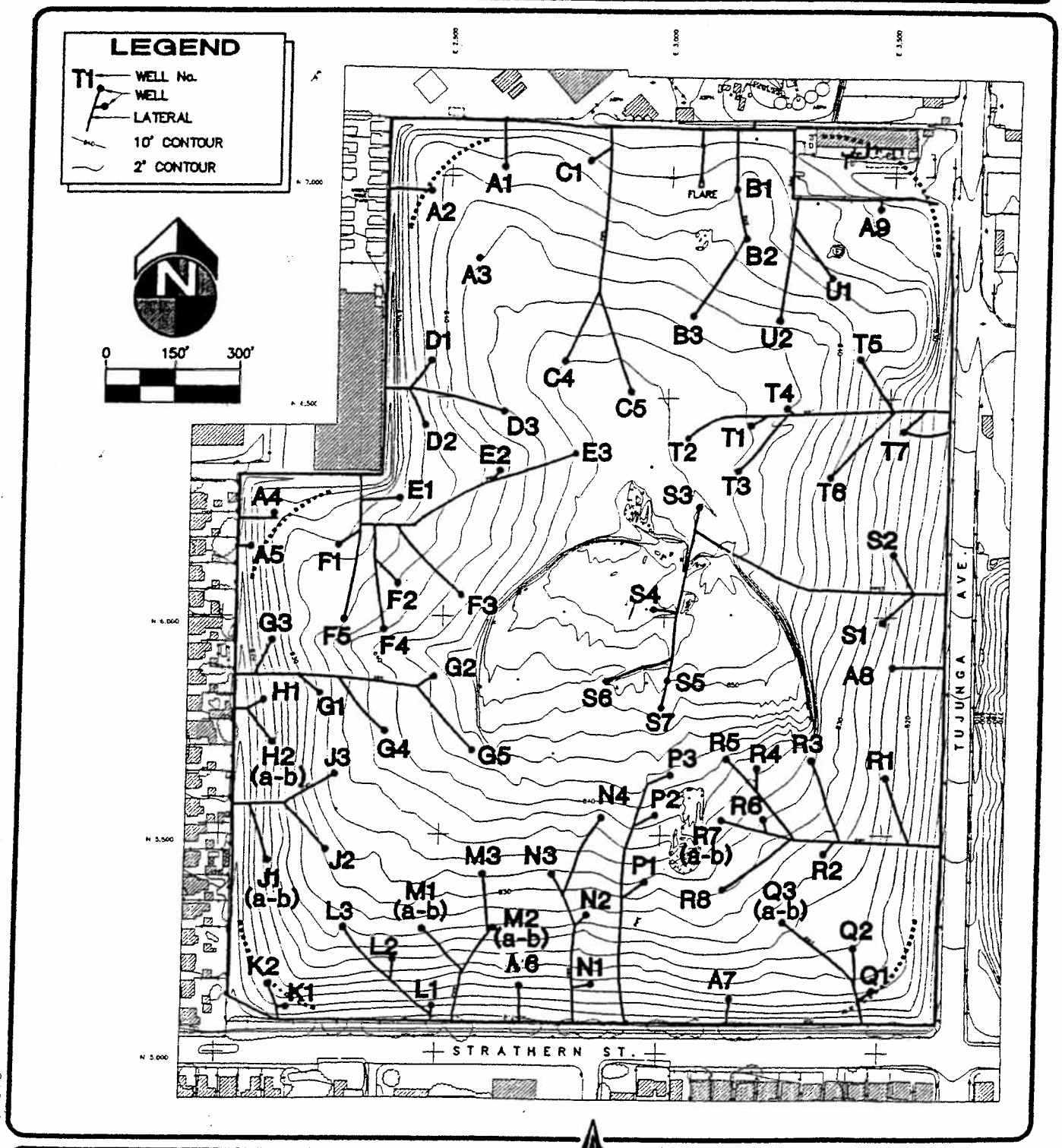
PENROSE LANDFILL GAS COLLECTION SYSTEM



10-15-96 WELL-SYS

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
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Tel: (213) 233-4175 Fax: (213) 233-4170

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EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Third Quarter, 1997

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

July 16, 1997

RECEIVED
JUL 22 1997
L.A. BY-PROD CO.

FILE NO: 72986

LAB NO: 7196122000

SAMPLE: On 07/14/97 at 14:45, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

July 16, 1997

FILE NO: 72986

LAB NO: 7196122000

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Gerardo Sapien A. FOR:

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakamoto

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6

DATE 7/28/97

INSPECTION REPORT

CLIMATE:

bright / clear / fog	cloudy / overcast / rain	<32° F / 33°-55° / 56°-70°	71°-85° / 86°-100° / >100° F	still / breeze / wind	dry / moderate / humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: There was a slight overcast or cloud cover. Electronic wind speed indicator detected No wind. The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister at 7:30 Am on 7/28/97. The monitor began at 10:15 and was finished by 12:00 Noon. Last recorded rain fall was over two weeks ago. The result of the monitor was N.D. Contractor followed PATH 'B'.

☐ REINSPECTION REQUIRED

Robert mcallist
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 7/29/97

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 71°-98°, 33°-55°, 86°-100°, 56°-70°, >100° F | calm, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS.

CONTRACTOR(S): ROBERT McAllister

REMARKS: Today was very humid with a high cloud cover. Electronic wind speed indicator recorded a 2-3 mph wind from the south. Last recorded rainfall was over two weeks ago.

The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 7/28/97. ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min. The TOC meter used was a Natural Gas Indicator model npl-204 last calibrated by J.G Tucker and Son on 2-18-96. the H_2S tests were

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 7/29/97

REMARKS CONTINUED: done with a Drager Pump and Drager tubes. All air samples were collected in 10-liter tedlar bags and placed in a black trash bag for protection from Sunlight.

ISS #13 was collected at 10:30 Am and tested for OVA (ND) and H_2S (ND). ISS #14 was collected at 10:55 AM and tested for OVA (ND) and H_2S (ND). The TSI was collected at 11:10 Am and tested for TOC (43%) and H_2S (115 ppm). The PPS #22 was collected at 11:25 AM and tested for TOC (ND) and H_2S (ND).

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 7/29/97

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS - Cloudy/overcast - Humid.
TIME	ISS #13 - 10:30 Am
INSTRUMENT	ISS #14 - 10:55 Am
	TSI - 11:10 Am
PARAMETER	PPS #22 - 11:25 Am.

PROBE #			PROBE #							
1			A-1			R	10'			
2 A			B				40'			
3 A			C	GREEN-21'			80'			
4 A				YELLOW-41'			120'			
5 A				ORANGE-61'		S	10'			
6 A				RED - 81'			40'			
7 A			D				80'			
8 A			E				120'			
9			F			T	10'			
10			G				40'			
11			J-1				73'			
12			K-1			T-1	72'			
13			L	GREEN-45'		U	10'			
14				YELLOW-65'			37'			
15				ORANGE-85'			68'			
16				RED - 105'		V	10'			
17			N	GREEN-22'			40'			
18				YELLOW-45'			73'			
19				ORANGE-68'		W	10'			
20				RED - 90'			40'			
21 A	TOC	H_2S	P	10'			80'			
22	ND	ND		40'			120'			
23				80'			158'			
24			P-1	120'					TOC	H_2S
25			Q	10'		TSI			43%	115ppm
26				40'						
	DUA	H_2S		75'						
ISS #13	ND	ND	Q-1	120'						
ISS #14	ND	ND		158'						

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, C. 93021 TEL (818)707-3036 FAX (818)707-3012

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

July 31, 1997

FILE NO: 70237

LAB NO: 7210173200

SAMPLE: On 07/29/97 at 13:15, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

July 29, 1997

FILE NO: 70237

LAB NO: 7210173200

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

August 15, 1997

FILE NO: 72986

LAB NO: 7226150000

SAMPLE: On 08/13/97 at 16:15, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

August 15, 1997

FILE NO: 72986

LAB NO: 7226150000

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakamoto

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 8/22/97

INSPECTION REPORT

CLIMATE: (bright) cloudy / clear / overcast / fog / rain — <32° F / 71°-85° / 33°-55° / 86°-100° / 56°-70° / >100° F — still / breeze / wind — dry / moderate / humid

LOCATION: PENROSE

PURPOSE: TSI, PPS

CONTRACTOR(S): Robert McAllister

REMARKS: Hot Day, with few clouds. Last recorded rainfall was over two weeks ago.

Air samples were collected in 10-liter tedlar bags and placed in a black trash bag for protection from sunlight. H_2S tests were done with a Drager tube and Drager pump. TOC tests were done with a Natural Gas Indicator npl-204 last calibrated by J.G. Tucker and Son on 2-18-96.

TSI was collected at 10:20 Am and tested for H_2S (90 ppm) and TOC (44%). The PPS #25 was tested for H_2S (ND) and TOC (ND) and collected at 10: AM.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 8/22/97

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS
TIME	Sunny Day - Hot
INSTRUMENT	TSI 10:20 AM
	PPS #25 10:00 AM
PARAMETER	

PROBE #			PROBE #							
1			A-1				R	10'		
2 A			B					40'		
3 A			C	GREEN-21'				80'		
4 A				YELLOW-41'				120'		
5 A				ORANGE-61'			S	10'		
6 A				RED - 81'				40'		
7 A			D					80'		
8 A			E					120'		
9			F				T	10'		
10			G					40'		
11			J-1					73'		
12			K-1				T-1	72'		
13			L	GREEN-45'			U	10'		
14				YELLOW-65'				37'		
15				ORANGE-85'				68'		
16				RED - 105'			V	10'		
17			N	GREEN-22'				40'		
18				YELLOW-45'				73'		
19				ORANGE-68'			W	10'		
20				RED - 90'				40'		
21 A			P	10'				80'		
22				40'				120'		
23				80'				158'		
24	H_2S	TOC	P-1	120'					H_2S	TOC
25	ND	ND	Q	10'			TSI		90ppm	44%
26				40'						
				75'						
			Q-1	120'						
				158'						

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, C. 3021 TEL (818)707-3036 FAX (818)707-3012

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 8/25/97

INSPECTION REPORT

CLIMATE: (sunny) cloudy clear overcast fog | <32° F 71°-85° 33°-55° 86°-100° 56°-70° >100° F | (still) breeze wind | dry moderate (humid)

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: HOT! WEATHER!! Electronic wind speed indicator detected ND for wind velocity. Very SUNNY with few clouds. OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister 8/25/97 at 7:45 AM. Last recorded rain fall was over two weeks ago. Contractor followed PATH 'A'. Result of monitor was ND. Monitor began at 8:30 am and was finished by 10:45 Am.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

001308

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

August 28, 1997

SEP 05 1997

FILE NO: 70237

LAB NO: 7239114200

SAMPLE: On 08/26/97 at 14:50, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

August 28, 1997

FILE NO: 70237

LAB NO: 7239114200

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
gr							
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 8/28/97

INSPECTION REPORT

CLIMATE: (bright) cloudy clear overcast fog rain | <32° F 71°-85° 33°-55° 86°-100° 56°-70° >100° F | (still) breeze wind | dry moderate (humid)

LOCATION: PENROSE

PURPOSE: ISS

CONTRACTOR(S): Robert McAllister

REMARKS: Very Hot and Humid. Few clouds but plenty of bright Sunshine. Last recorded rainfall over two weeks ago. Electronic wind speed indicator detected ND. Air Samples were collected in 10-liter Tedlar bags and placed into a black trash bag for protection from Sunlight. Last recorded rainfall was over one week ago.
H_2S tests were done with Drager tubes and Drager Pump. The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 8/25/97. ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min.
ISS # 15 was collected at 11:10 Am and tested for H_2S (ND) and OVA (ND). ISS #16 was collected at 11:45 Am and tested for H_2S (ND) and OVA (ND).

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 8/25/97

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS ISS # 15 11:10 AM
TIME	ISS # 16 · 11:45 AM
INSTRUMENT	
PARAMETER	HOT !! BRIGHT SUNSHINE

PROBE #			PROBE #							
1			A-1				R	10'		
2 A			B					40'		
3 A			C	GREEN-21'				80'		
4 A				YELLOW-41'				120'		
5 A				ORANGE-61'			S	10'		
6 A				RED - 81'				40'		
7 A			D					80'		
8 A			E					120'		
9			F				T	10'		
10			G					40'		
11			J-1					73'		
12			K-1				T-1	72'		
13			L	GREEN-45'			U	10'		
14				YELLOW-65'				37'		
15				ORANGE-85'				68'		
16				RED - 105'			V	10'		
17			N	GREEN-22'				40'		
18				YELLOW-45'				73'		
19				ORANGE-68'			W	10'		
20				RED - 90'				40'		
21 A			P	10'				80'		
22				40'				120'		
23				80'				158'		
24			P-1	120'						
25			Q	10'			TSI			
26				40'					OVA	H_2S
				75'				ISS #15	ND	ND
			Q-1	120'				ISS # 16	ND	ND
				158'						

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, C. 93021 TEL (818)707-3036 FAX (818)707-3012

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 9/4/97

INSPECTION REPORT

CLIMATE: (bright) clear fog / cloudy overcast rain / <32° F 33°-55° 56°-70° / 71°-85° 86°-100° >100° F / (still) breeze wind / dry (moderate) humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor /SM

CONTRACTOR(S): Robert McAllister

REMARKS: Last rainfall was over one week ago. Electronic wind speed indicator detected a slight South wind .2 to 1.8 mph. Weather was warm with bright sunshine and few clouds.

Monitor began 8:45 and was complete by 10:15 Am. The result of monitor was ND. The OVA instrument used was the foxboro 128 last calibrated by Robert McAllister on 8/28/97. Contractor followed path "B".

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

September 15, 1997

FILE NO: 72986

LAB NO: 7258102100

SAMPLE: On 09/12/97 at 14:45, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

September 15, 1997

FILE NO: 72986

LAB NO: 7258102100

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

F. Fernando

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Paul Nakamoto

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 9/24/97

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, ~~overcast~~, rain; <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F; ~~still~~, breeze, wind; dry, moderate, humid

LOCATION: PENROSE

PURPOSE: PPS, ISS

CONTRACTOR(S): Robert McAllister

REMARKS: Weather was humid and hot with overcast clouds. The electronic wind speed indicator detected ND for wind velocity.

All air samples were collected in 10-liter Tedlar bags and stored in a Black trash bag for protection from sunlight. H_2S tests were done with Drager tubes and Drager pump. TOC tests were done with a Natural Gas Indicator model # NPL-204 last calibrated by J. G. Tucker and Son on 2-18-96. The OVA tests were done with a FOXBORO 128 last

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 9/24/97

REMARKS CONTINUED:

calibrated by Robert McAllister on 9/24/97. ISS samples were collected with a portable self contained unit with its own internal power supply, which collected samples at 400 cc/min.

ISS #17 was collected at 9:15 am and tested for OVA (ND) and H_2S (ND). ISS # 18 was collected at 9:40 AM and tested for OVA (ND) and H_2S (ND). PPS R-120' was collected at 10:30 AM and tested for TOC (ND) and H_2S (ND).

Last recorded rainfall was over one week ago.

Robert McAllister
INSPECTOR

PRINCIPAL

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001377

CONFIDENTIA

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 9-24-97

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS – Humid – Hot – No wind – OVERCAST
TIME	ISS #17 – 9:15 Am
INSTRUMENT	ISS #18 – 9:40 Am
PARAMETER	PROBE R-120' 10:30 Am

PROBE #			PROBE #					TOC	H_2S
1			A-1			R	10'		
2 A			B				40'		
3 A			C	GREEN-21'			80'		
4 A				YELLOW-41'			120'	ND	ND
5 A				ORANGE-61'		S	10'		
6 A				RED - 81'			40'		
7 A			D				80'		
8 A			E				120'		
9			F			T	10'		
10			G				40'		
11			J-1				73'		
12			K-1			T-1	72'		
13			L	GREEN-45'		U	10'		
14				YELLOW-65'			37'		
15				ORANGE-85'			68'		
16				RED - 105'		V	10'		
17			N	GREEN-22'			40'		
18				YELLOW-45'			73'		
19				ORANGE-68'		W	10'		
20				RED - 90'			40'		
21 A			P	10'			80'		
22				40'			120'		
23				80'			158'		
24			P-1	120'					
25			Q	10'		TSI			
26				40'					
				75'				OUT	H_2S
			Q-1	120'			ISS #17	ND	ND
				158'			ISS #18	ND	ND

SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 620 WALNUT STREET MOORPARK, C. 93021 TEL (818)707-3036 FAX (818)707-3012

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

October 1, 1997

RECEIVED
OCT 06 1997
L.A. BY-PROD. CO.

FILE NO: 70237

LAB NO: 7272162000

SAMPLE: On 09/26/97 at 14:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 9/29/97

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: TSI

CONTRACTOR(S): Robert McAllister

REMARKS: TSI sample was collected in a 10-liter Tedlar bag and placed in a black trash bag for protection from Sunlight. TOC test was done with a Natural Gas Indicator model # npl-204 last calibrated by J.G. Tucker and Son on 2-18-96. H_2S tests were done with a Drager pump and Drager tube. Sample was collected at 11:00AM and tested for TOC (44%) and H_2S (105 ppm)

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

001380

CONFIDENTIA

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 9/29/97

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS
TIME	TSI Sample - 11:00 AM
INSTRUMENT	44% TOC
PARAMETER	

PROBE #			PROBE #							
1			A-1					10'		
2 A			B			R		40'		
3 A			C	GREEN-21'				80'		
4 A				YELLOW-41'				120'		
5 A				ORANGE-61'				10'		
6 A				RED - 81'			S	40'		
7 A			D					80'		
8 A			E					120'		
9			F					10'		
10			G				T	40'		
11			J-1					73'		
12			K-1			T-1		72'		
13			L	GREEN-45'				10'		
14				YELLOW-65'			U	37'		
15				ORANGE-85'				68'		
16				RED - 105'				10'		
17			N	GREEN-22'			V	40'		
18				YELLOW-45'				73'		
19				ORANGE-68'				10'		
20				RED - 90'				40'		
21 A			P	10'			W	80'		
22				40'				120'		
23				80'				158'		
24			P-1	120'					H_2S	TOC
25			Q	10'		TSI			105 ppm	44%
26				40'						
				75'						
			Q-1	120'						
				158'						

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
620 WALNUT STREET MOORPARK, C. 3021 TEL (818)707-3036 FAX (818)707-3012

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EXHIBIT D

Laboratory Analytical Results - Third Quarter, 1997

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

L.A. By Products/John Sepich Associates	Date Sampled:	07/29/97
1810 East 25th Street	Date Received:	07/30/97
Los Angeles, CA 90058	Date Analyzed:	07/30/97
	Work Order No.:	97-07-431
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Integrated Surface Samples/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: ISS #13		
Methane	3	1
TGNMO	16	1
Sample Number: ISS #14		
Methane	2	1
TGNMO	9	1
Sample Number: TSI		
Oxygen plus Argon, % by volume.	0.5	0.1
Nitrogen, % by volume.	17.8	0.1
Methane, % by volume.	43.2	0.1
Carbon Dioxide, % by volume.	39.6	0.1
Carbon Monoxide	ND	2
TGNMO	616	1
Sample Number: PPS #22		
Methane	2	1
TGNMO	6	1

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

L.A. By Products/John Sepich Associates	Date Sampled:	07/29/97
1810 East 25th Street	Date Received:	07/30/97
Los Angeles, CA 90058	Date Analyzed:	07/30/97
	Work Order No.:	97-07-431
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Integrated Surface Samples/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Oxygen plus Argon, % by volume.	ND	0.1
Nitrogen, % by volume.	ND	0.1
Methane, % by volume.	ND	0.1
Carbon Dioxide, % by volume.	ND	0.1
Methane	ND	1
Carbon Monoxide	ND	2
TGNMO	ND	1

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: TSI (Duplicate)				
Oxygen plus Argon, % by volume.	0.5	0.5	0	0 - 25
Nitrogen, % by volume.	17.8	17.9	1	0 - 25
Methane, % by volume.	43.2	43.7	1	0 - 25
Carbon Dioxide, % by volume.	39.6	39.7	0	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
TGNMO	616	631	2	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/John Sepich Associates		
Project ID:	Integrated Surface Samples/J152-6		
Work Order Number:	97-07-431		
QC Batch ID:	970730	Date Collected:	07/29/97
Matrix:	Air	Date Received:	07/30/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/30/97

Client Sample Number: **ISS #13**
Lab Sample Number: 97-07-431-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.8	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	18.0	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.7	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	6.3	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	3.4	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/John Sepich Associates		
Project ID:	Integrated Surface Samples/J152-6		
Work Order Number:	97-07-431		
QC Batch ID:	970730	Date Collected:	07/29/97
Matrix:	Air	Date Received:	07/30/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/31/97

Client Sample Number: **ISS #14**
Lab Sample Number: 97-07-431-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.7	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	25.2	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	3.4	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	3.1	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/John Sepich Associates		
Project ID:	Integrated Surface Samples/J152-6		
Work Order Number:	97-07-431		
QC Batch ID:	970730	Date Collected:	07/29/97
Matrix:	Air	Date Received:	07/30/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/31/97

Client Sample Number: **TSI**
Lab Sample Number: 97-07-431-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	30.6	2.0		ppb (v/v)
Acetonitrile	ND	4.0		ppb (v/v)
1,1-Dichloroethene	45.1	2.0		ppb (v/v)
Methylene Chloride	ND	8.0		ppb (v/v)
1,1-Dichloroethane	2.5	2.0		ppb (v/v)
Chloroform	ND	2.0		ppb (v/v)
1,2-Dichloroethane	4.3	2.0		ppb (v/v)
1,1,1-Trichloroethane	ND	2.0		ppb (v/v)
Benzene	127	2.0		ppb (v/v)
Carbon Tetrachloride	ND	2.0		ppb (v/v)
Toluene	396	2.0		ppb (v/v)
Trichloroethene	14.4	2.0		ppb (v/v)
Tetrachloroethene	23.0	2.0		ppb (v/v)
Chlorobenzene	85.7	2.0		ppb (v/v)
Xylenes (total)	763	6.0		ppb (v/v)
Benzyl Chloride	ND	2.0		ppb (v/v)
1,3-Dichlorobenzene	ND	2.0		ppb (v/v)
1,4-Dichlorobenzene	29.4	2.0		ppb (v/v)
1,2-Dichlorobenzene	5.9	2.0		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/John Sepich Associates		
Project ID:	Integrated Surface Samples/J152-6		
Work Order Number:	97-07-431		
QC Batch ID:	970730	Date Collected:	07/29/97
Matrix:	Air	Date Received:	07/30/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/31/97

Client Sample Number: **PPS #22**
Lab Sample Number: 97-07-431-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	7.1	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.7	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	19.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	3.6	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	2.8	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/John Sepich Associates		
Project ID:	Integrated Surface Samples/J152-6		
Work Order Number:	97-07-431		
QC Batch ID:	970730	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	07/30/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-306

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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LCS/LCSD Batch Number:	970730	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	07/30/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	78	77	60-140	1	0-30	
1,2-Dichloroethane	102	100	60-140	1	0-30	
Benzene	98	97	60-140	1	0-30	
Carbon Tetrachloride	110	113	60-140	2	0-30	
Trichloroethene	114	111	60-140	2	0-30	
Tetrachloroethene	113	111	60-140	1	0-30	
1,4-Dichlorobenzene	119	132	60-140	10	0-30	
1,2-Dichlorobenzene	122	140	60-140	13	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	7/29/97

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		FIXED GAS				REMARKS
J152-6	7/29/97	10:30 Am	C	1	ISS #13	✓	✓	✓						
J152-6	7/29/97	10:55 Am	C	1	ISS #14	✓	✓	✓						
J152-6	7/29/97	11:10 Am	G	1	TSI	✓	✓			✓				
J152-6	7/29/97	11:25 Am	G	1	PPS #22	✓	✓			✓				

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS CO.	7/30/97	
RECEIVED BY:	[illegible]	CALSCIENCE	7/30/97	09:00
RELINQUISHED BY:	[illegible]	CALSCIENCE	7/30/97	0945
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	V. Bukman	CALSCIENCE	7/30/97	0945

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	08/22/97
1810 East 25th Street	Date Received:	08/22/97
Los Angeles, CA 90058	Date Analyzed:	08/22/97
	Work Order No.:	97-08-354
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: PPS #25

Analyte	Concentration	Reportable Limit
Methane	3	1
TGNMO	10	1

Sample Number: TSI

Oxygen plus Argon	0.6*	0.1
Nitrogen	16.5*	0.1
Methane	42.6*	0.1
Carbon Dioxide	39.4*	0.1
Carbon Monoxide	ND*	0.1
TGNMO	670	1

Sample Number: Method Blank

Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Carbon Dioxide	ND*	0.1
Carbon Monoxide	ND*	0.1
TGNMO	ND	1

* Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	08/22/97 08/22/97 08/22/97
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 2 of 2	97-08-354 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen plus Argon	0.6*	0.6*	0	0 - 25
Nitrogen	16.5*	16.3*	1	0 - 25
~~Nitrogen~~ METHANE	42.6*	42.6*	0	0 - 25
Carbon Dioxide	39.4*	39.6*	1	0 - 25
Carbon Monoxide	ND*	ND*	NA	0 - 25
TGNMO	670	743	10	0 - 25

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-08-354		
QC Batch ID:	970822	Date Collected:	08/22/97
Matrix:	Air	Date Received:	08/22/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/22/97

Client Sample Number: **PPS #25**
Lab Sample Number: 97-08-354-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	8.0	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	0.7	0.5		ppb (v/v)
Benzene	4.1	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	20.2	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	1.9	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	29.5	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	6.4	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-08-354		
QC Batch ID:	970822	Date Collected:	08/22/97
Matrix:	Air	Date Received:	08/22/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/22/97

Client Sample Number: **TSI**
Lab Sample Number: 97-08-354-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	710	120		ppb (v/v)
Acetonitrile	ND	250		ppb (v/v)
1,1-Dichloroethene	ND	120		ppb (v/v)
Methylene Chloride	650	500		ppb (v/v)
1,1-Dichloroethane	ND	120		ppb (v/v)
Chloroform	ND	120		ppb (v/v)
1,2-Dichloroethane	ND	120		ppb (v/v)
1,1,1-Trichloroethane	ND	120		ppb (v/v)
Benzene	1600	120		ppb (v/v)
Carbon Tetrachloride	ND	120		ppb (v/v)
Toluene	11600	120		ppb (v/v)
Trichloroethene	480	120		ppb (v/v)
Tetrachloroethene	490	120		ppb (v/v)
Chlorobenzene	1090	120		ppb (v/v)
Xylenes (total)	14000	380		ppb (v/v)
Benzyl Chloride	ND	120		ppb (v/v)
1,3-Dichlorobenzene	ND	120		ppb (v/v)
1,4-Dichlorobenzene	480	120		ppb (v/v)
1,2-Dichlorobenzene	ND	120		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-08-354		
QC Batch ID:	970822	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/22/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-321

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

LCS/LCSD Batch Number:	970822	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	08/22/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	115	121	60-140	5	0-30	
1,2-Dichloroethane	99	102	60-140	2	0-30	
Benzene	99	102	60-140	2	0-30	
Carbon Tetrachloride	99	101	60-140	2	0-30	
Trichloroethene	95	98	60-140	3	0-30	
Tetrachloroethene	95	98	60-140	3	0-30	
1,4-Dichlorobenzene	91	96	60-140	5	0-30	
1,2-Dichlorobenzene	95	96	60-140	1	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	8/22/97

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		Fixed Gas			TOC	REMARKS
J152-6	8/22/97	10:00 AM	G	1	PPS #25	X	X							
J152-6	8/22/97	10:20 AM	G	1	TSI	X	X			X				

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS	8/22/97	10:24 AM
RECEIVED BY:	[illegible]	LOS ANGELES BY-PRODUCTS	8/22/97	10:24 AM
RELINQUISHED BY:	[illegible]	LOS ANGELES BY-PRODUCTS	8/22/97	10:40 AM
RECEIVED BY:	[illegible]	CAMSCIENCE	8/22/97	10:40 AM
RELINQUISHED BY:	[illegible]	CAMSCIENCE	8/22/97	1230
RECEIVED BY:				

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	08/28/97
1810 East 25th Street	Date Received:	08/29/97
Los Angeles, CA 90058	Date Analyzed:	08/29/97
	Work Order No.:	97-08-456
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 1	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reportable Limit
Sample Number: ISS #15		
Methane	2	1
TGNMO	6	1
Sample Number: ISS #16		
Methane	2	1
TGNMO	6	1
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 97-08-427-1 (Duplicate)				
Methane	46	45	2	0 - 25
TGNMO	64	64	0	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-08-456		
QC Batch ID:	970902	Date Collected:	08/28/97
Matrix:	Air	Date Received:	08/29/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	09/02/97

Client Sample Number: **ISS #15**
Lab Sample Number: 97-08-456-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.7		ppb (v/v)
Acetonitrile	ND	1.3		ppb (v/v)
1,1-Dichloroethene	ND	0.7		ppb (v/v)
Methylene Chloride	ND	2.7		ppb (v/v)
1,1-Dichloroethane	ND	0.7		ppb (v/v)
Chloroform	ND	0.7		ppb (v/v)
1,2-Dichloroethane	ND	0.7		ppb (v/v)
1,1,1-Trichloroethane	0.8	0.7		ppb (v/v)
Benzene	2.5	0.7		ppb (v/v)
Carbon Tetrachloride	ND	0.7		ppb (v/v)
Toluene	32.2	0.7		ppb (v/v)
Trichloroethene	ND	0.7		ppb (v/v)
Tetrachloroethene	1.1	0.7		ppb (v/v)
Chlorobenzene	ND	0.7		ppb (v/v)
Xylenes (total)	23.4	2.0		ppb (v/v)
Benzyl Chloride	ND	0.7		ppb (v/v)
1,3-Dichlorobenzene	ND	0.7		ppb (v/v)
1,4-Dichlorobenzene	16.7	0.7		ppb (v/v)
1,2-Dichlorobenzene	0.9	0.7		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-08-456		
QC Batch ID:	970902	Date Collected:	08/28/97
Matrix:	Air	Date Received:	08/29/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	09/02/97

Client Sample Number: **ISS #16**
Lab Sample Number: 97-08-456-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.7		ppb (v/v)
Acetonitrile	ND	1.4		ppb (v/v)
1,1-Dichloroethene	ND	0.7		ppb (v/v)
Methylene Chloride	ND	2.7		ppb (v/v)
1,1-Dichloroethane	ND	0.7		ppb (v/v)
Chloroform	ND	0.7		ppb (v/v)
1,2-Dichloroethane	ND	0.7		ppb (v/v)
1,1,1-Trichloroethane	0.8	0.7		ppb (v/v)
Benzene	3.1	0.7		ppb (v/v)
Carbon Tetrachloride	ND	0.7		ppb (v/v)
Toluene	45.6	0.7		ppb (v/v)
Trichloroethene	ND	0.7		ppb (v/v)
Tetrachloroethene	1.0	0.7		ppb (v/v)
Chlorobenzene	ND	0.7		ppb (v/v)
Xylenes (total)	20.7	2.0		ppb (v/v)
Benzyl Chloride	ND	0.7		ppb (v/v)
1,3-Dichlorobenzene	ND	0.7		ppb (v/v)
1,4-Dichlorobenzene	12.8	0.7		ppb (v/v)
1,2-Dichlorobenzene	ND	0.7		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-08-456		
QC Batch ID:	970902	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	09/02/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-324

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

LCS/LCSD Batch Number:	970902	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	09/02/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	107	104	60-140	2	0-30	
1,2-Dichloroethane	89	89	60-140	0	0-30	
Benzene	83	81	60-140	2	0-30	
Carbon Tetrachloride	91	89	60-140	2	0-30	
Trichloroethene	100	102	60-140	1	0-30	
Tetrachloroethene	102	105	60-140	2	0-30	
1,4-Dichlorobenzene	122	127	60-140	4	0-30	
1,2-Dichlorobenzene	123	128	60-140	3	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	8/28/97

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					TOC	REMARKS
J152-6	8/28/97	11:10 AM	C	1	ISS # 15	✓	✓	✓						
J152-6	8/28/97	11:45 AM	C	1	ISS # 16	✓	✓	✓						

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABT-PRODUCTS CO.	8/29/97	0830
RECEIVED BY:	[illegible]	CONSCIENCE	8/29/97	0830
RELINQUISHED BY:	[illegible]	CONSCIENCE	8/29/97	11:15
RECEIVED BY:	[illegible]	CONSCIENCE	8/29/97	11:15
RELINQUISHED BY:				
RECEIVED BY:				

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	09/24/97
1810 East 25th Street	Date Received:	09/25/97
Los Angeles, CA 90058	Date Analyzed:	09/25/97
	Work Order No.:	97-09-530
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: ISS #17		
Methane	3	1
TGNMO	7	1
Sample Number: ISS #18		
Methane	3	1
TGNMO	9	1
Sample Number: PPS R-120		
Methane	1	1
TGNMO	8	1
Sample Number: Method Blank		
Methane	ND	1
TGNMO	ND	1

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	09/24/97
1810 East 25th Street	Date Received:	09/25/97
Los Angeles, CA 90058	Date Analyzed:	09/25/97
	Work Order No.:	97-09-530
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 97-09-510-5 (Duplicate)				
Methane	1710	1690	1	0 - 25
TGNMO	100	92	8	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-09-530		
QC Batch ID:	970926	Date Collected:	09/24/97
Matrix:	Air	Date Received:	09/25/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	09/26/97

Client Sample Number: **ISS #17**
Lab Sample Number: 97-09-530-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	8.9	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	2.6	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	79.7	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	1.3	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	11.0	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	10.0	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-09-530		
QC Batch ID:	970926	Date Collected:	09/24/97
Matrix:	Air	Date Received:	09/25/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	09/26/97

Client Sample Number: **ISS #18**
Lab Sample Number: 97-09-530-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	4.4	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	1.8	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	32.0	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.8	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	8.1	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	8.5	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-09-530		
QC Batch ID:	970926	Date Collected:	09/24/97
Matrix:	Air	Date Received:	09/25/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	09/26/97

Client Sample Number: **PPS R-120**
Lab Sample Number: 97-09-530-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	4.5	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	1.5	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	1.0	0.5		ppb (v/v)
Benzene	0.7	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	30.6	0.5		ppb (v/v)
Trichloroethene	1.0	0.5		ppb (v/v)
Tetrachloroethene	26.7	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	4.9	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	8.1	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By-Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-09-530		
QC Batch ID:	970926	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	09/26/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-332

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	970926	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	09/26/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	120	124	60-140	3	0-30	
1,2-Dichloroethane	83	87	60-140	4	0-30	
Benzene	92	92	60-140	0	0-30	
Carbon Tetrachloride	84	89	60-140	5	0-30	
Trichloroethene	106	107	60-140	0	0-30	
Tetrachloroethene	105	113	60-140	7	0-30	
1,4-Dichlorobenzene	107	107	60-140	0	0-30	
1,2-Dichlorobenzene	112	112	60-140	0	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	9-24-97

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					TOC	REMARKS
J152-6	9/24/97	9:15 AM	C	1	ISS #17	✓	✓	✓						
J152-6	9/24/97	9:40 AM	C	1	ISS #18	✓	✓	✓						
J152-6	9/24/97	10:30 AM	G	1	PPS R"-120'	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	CABY-PRO	9-24-97	0900
RECEIVED BY:	[illegible]	CONSEQUENCE	9-25-97	0900
RELINQUISHED BY:	[illegible]	CONSEQUENCE	9-25-97	0945
RECEIVED BY:	[illegible]	CONSEQUENCE	9-25-97	0945
RELINQUISHED BY:				
RECEIVED BY:				

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc. 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	09/29/97 09/30/97 09/30/97
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 1 of 2	97-09-626 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in % by volume.

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Oxygen plus Argon	1.0	0.1
Nitrogen	17.5	0.1
Methane	45.2	0.1
Carbon Monoxide	ND	0.1
Carbon Dioxide	40.7	0.1
TGNMO	747	1
Sample Number: Method Blank		
Oxygen plus Argon	ND	0.1
Nitrogen	ND	0.1
Methane	ND	0.1
Carbon Monoxide	ND	0.1
Carbon Dioxide	ND	0.1
TGNMO	ND	1

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	09/29/97
1810 East 25th Street	Date Received:	09/30/97
Los Angeles, CA 90058	Date Analyzed:	09/30/97
	Work Order No.:	97-09-626
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in % by volume unless noted otherwise.

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 97-09-623-1 (Duplicate)				
Oxygen plus Argon	7.2	7.2	0	0 - 25
Nitrogen	79.7	79.9	0	0 - 25
Carbon Dioxide	17.9	17.9	0	0 - 25
Methane	1640*	1640*	0	0 - 25
Carbon Monoxide	ND*	ND*	NA	0 - 25
TGNMO	33*	31*	6	0 - 25

*Results reported in ppm (v/v).

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-09-626		
QC Batch ID:	970930	Date Collected:	09/29/97
Matrix:	Air	Date Received:	09/30/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	09/30/97

Client Sample Number: **TSI**
Lab Sample Number: 97-09-626-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	410	100		ppb (v/v)
Acetonitrile	ND	200		ppb (v/v)
1,1-Dichloroethene	ND	100		ppb (v/v)
Methylene Chloride	ND	400		ppb (v/v)
1,1-Dichloroethane	ND	100		ppb (v/v)
Chloroform	ND	100		ppb (v/v)
1,2-Dichloroethane	ND	100		ppb (v/v)
1,1,1-Trichloroethane	ND	100		ppb (v/v)
Benzene	2020	100		ppb (v/v)
Carbon Tetrachloride	ND	100		ppb (v/v)
Toluene	13700	100		ppb (v/v)
Trichloroethene	120	100		ppb (v/v)
Tetrachloroethene	200	100		ppb (v/v)
Chlorobenzene	1800	100		ppb (v/v)
Xylenes (total)	18400	300		ppb (v/v)
Benzyl Chloride	ND	100		ppb (v/v)
1,3-Dichlorobenzene	ND	100		ppb (v/v)
1,4-Dichlorobenzene	970	100		ppb (v/v)
1,2-Dichlorobenzene	ND	100		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-09-626		
QC Batch ID:	970930	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	09/30/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-336

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	970930	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	09/30/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	83	84	60-140	1	0-30	
1,2-Dichloroethane	77	79	60-140	2	0-30	
Benzene	94	94	60-140	0	0-30	
Carbon Tetrachloride	80	81	60-140	1	0-30	
Trichloroethene	104	103	60-140	0	0-30	
Tetrachloroethene	115	116	60-140	0	0-30	
1,4-Dichlorobenzene	101	107	60-140	5	0-30	
1,2-Dichlorobenzene	103	109	60-140	5	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	9/29/97

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC						Fixed Gas	REMARKS
J152-6	9/29	11:00 AM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LABY-PRO	9/30/97	
RECEIVED BY:	[illegible]	CASCIONCE	9/30/97	
RELINQUISHED BY:	[illegible]	CASCIONCE	9/30/97	
RECEIVED BY:	[illegible]	CASCIONCE	9/30/97	1800
RELINQUISHED BY:				
RECEIVED BY:				

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EXHIBIT E

Laboratory Analytical Results - Source Test, 1997

(Inlet only)

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	08/22/97
1810 East 25th Street	Date Received:	08/22/97
Los Angeles, CA 90058	Date Analyzed:	08/22/97
	Work Order No.:	97-08-354
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: PPS #25

Analyte	Concentration	Reportable Limit
Methane	3	1
TGNMO	10	1

Sample Number: TSI

Oxygen plus Argon	0.6*	0.1
Nitrogen	16.5*	0.1
Methane	42.6*	0.1
Carbon Dioxide	39.4*	0.1
Carbon Monoxide	ND*	0.1
TGNMO	670	1

Sample Number: Method Blank

Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Carbon Dioxide	ND*	0.1
Carbon Monoxide	ND*	0.1
TGNMO	ND	1

* Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich Associates, Inc.	Date Sampled:	08/22/97
1810 East 25th Street	Date Received:	08/22/97
Los Angeles, CA 90058	Date Analyzed:	08/22/97
	Work Order No.:	97-08-354
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen plus Argon	0.6*	0.6*	0	0 - 25
Nitrogen	16.5*	16.3*	1	0 - 25
~~Nitrogen~~ METHANE	42.6*	42.6*	0	0 - 25
Carbon Dioxide	39.4*	39.6*	1	0 - 25
Carbon Monoxide	ND*	ND*	NA	0 - 25
TGNMO	670	743	10	0 - 25

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-08-354		
QC Batch ID:	970822	Date Collected:	08/22/97
Matrix:	Air	Date Received:	08/22/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/22/97

Client Sample Number: **TSI**
Lab Sample Number: 97-08-354-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	710	120		ppb (v/v)
Acetonitrile	ND	250		ppb (v/v)
1,1-Dichloroethene	ND	120		ppb (v/v)
Methylene Chloride	650	500		ppb (v/v)
1,1-Dichloroethane	ND	120		ppb (v/v)
Chloroform	ND	120		ppb (v/v)
1,2-Dichloroethane	ND	120		ppb (v/v)
1,1,1-Trichloroethane	ND	120		ppb (v/v)
Benzene	1600	120		ppb (v/v)
Carbon Tetrachloride	ND	120		ppb (v/v)
Toluene	11600	120		ppb (v/v)
Trichloroethene	480	120		ppb (v/v)
Tetrachloroethene	490	120		ppb (v/v)
Chlorobenzene	1090	120		ppb (v/v)
Xylenes (total)	14000	380		ppb (v/v)
Benzyl Chloride	ND	120		ppb (v/v)
1,3-Dichlorobenzene	ND	120		ppb (v/v)
1,4-Dichlorobenzene	480	120		ppb (v/v)
1,2-Dichlorobenzene	ND	120		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich Associates, Inc.		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-08-354		
QC Batch ID:	970822	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	08/22/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-321

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

LCS/LCSD Batch Number:	970822	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	08/22/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	115	121	60-140	5	0-30	
1,2-Dichloroethane	99	102	60-140	2	0-30	
Benzene	99	102	60-140	2	0-30	
Carbon Tetrachloride	99	101	60-140	2	0-30	
Trichloroethene	95	98	60-140	3	0-30	
Tetrachloroethene	95	98	60-140	3	0-30	
1,4-Dichlorobenzene	91	96	60-140	5	0-30	
1,2-Dichlorobenzene	95	96	60-140	1	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	8/22/97

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		Fixed Gas			TOC	REMARKS
J152-6	8/22 97	10:00 AM	G	1	PPS #25	X	X							
J152-6	8/22 97	10:20 AM	G	1	TSI	X	X			X				

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS	8/22/97	10:24 AM
RECEIVED BY:	[illegible]	LOS ANGELES BY-PRODUCTS	8/22/97	10:24 AM
RELINQUISHED BY:	[illegible]	LOS ANGELES BY-PRODUCTS	8/22/97	10:40 AM
RECEIVED BY:	[illegible]	CAMSCIENCE	8/22/97	10:40 AM
RELINQUISHED BY:	[illegible]	CAMSCIENCE	8/22/97	1230
RECEIVED BY:				

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SEPICH ASSOCIATES, Inc.
and METHANE SPECIALISTS
located in the walnut adobe
680 WALNUT ST, MOORPARK, CA 93021

TEL (818) 707-3036
(805) 552-0000
FAX (818) 707-3012
(805) 552-0001

July 11, 1997

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

RECEIVED
JUL 15 1997
LA BY-PROD CO

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Second Quarter, 1997
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the fifteenth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period April through June 1997.

Monitoring and sampling for this report was performed on April 11, 15, 18, and 30, May 12, 16, 28, and 30, and June 12, 14, 25, and 26, 1997.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet (referred to as TSI for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements. Rule 1150.1 also requires simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.
2. Types and weights of waste materials deposited in the reporting year.
3. Total amount of waste materials deposited to date.
4. Contour map showing updated landfill boundary.
5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.
6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, April through June 1997, field monitoring was conducted on April 11, 15, 18, and 30, May 12, 16, 28, and 30, and June 12, 14, 25, and 26. Perimeter probe (PPS), integrated surface (ISS), and power plant inlet (TSI) samples were collected for laboratory analysis on April 30, May 28, and June 26, 1997. (see Exhibit C for field documentation).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on April 11 and 18, May 16 and 30, June 14 and 25, 1997 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 48 hours of sampling.

Perimeter probe sampling was conducted at Probe 8A on April 30 and on May 28, and at

Probe 4A on June 26, 1997. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on April 30, May 28, and June 26, 1997, by focusing sampling efforts in zones where TOC surface sampling had not been conducted recently. During instantaneous surface monitoring, no areas had detectable TOC readings in April, May, or June. On April 30, Areas 7 and 8 were sampled (see Integrated Surface Sampling Map in Exhibit A), on May 28, Areas 9 and 10 were sampled, and on June 26, Areas 11 and 12 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. The ISS field monitoring results for the Second Quarter TOC and H_2S concentrations were all non-detect.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path A was traversed on April 15, and June 12. Path B was traversed on May 12, 1997. In April, May, and June no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Pacific Energy (PE) electrical generation plant inlet pipeline on April 30, May 28, and June 26, 1997. TOC was monitored with a GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were last collected on September 5, 1996 and results of inlet analyses were reported in the fourth quarter 1996 report. LA By-Products Company sampled from an inlet containing Penrose gas only. Exhaust samples were collected from three of the engines (#1, #2, and #5) at the power plant by Horizon Air Measurement Services, Inc., for the SCAQMD. The exhaust samples are from the mixture of landfill gas from Penrose, Sheldon, and Bradley landfills, that is being burned at the plant.

B.6 Reporting Requirements

This is the fifteenth in a series of quarterly reports and the second quarterly report for Penrose Landfill for 1997. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Positive Lab Service. Normally the early (to mid-) month data is used to select the monthly probe sampling stations and the (mid to) late-month monitoring is used to fulfill any required follow-up probe monitoring. In April and June, the monthly sampling occurred after the second bi-monthly perimeter probe monitoring event, thus in those months the utilization of the monitoring events to the sampling event shifted by a half-month. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

April 11 and 18, 1997 perimeter probe monitoring results indicated non-detect (ND) readings of TOC from all probes. Probe #8A (5-foot depth) was sampled on April 30, 1997.

Table I - April 1997
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBE SAMPLED ON
April 30, 1997

Probe Number	Depth (feet)	Field Value 4/11/97 (% Vol)	Field Value 4/18/97 (% Vol)	Field Value 4/30/97 (% Vol)	Lab Results 4/30/97 (% Vol)	Follow-up Field Value 5/16/97 (% Vol)
8A	5	ND	ND	ND	0.0002	ND

Note: Laboratory samples were collected 4/30/97. Field values are volume percent TOC.

ND None detected.

May 16, 1997 perimeter probe monitoring results indicated non-detect (ND) readings of TOC from all probes. Probe #8A (5-foot depth) was sampled on May 28, 1997. Analytical results measured 2 parts per million (ppm) methane.

Table II - May 1997
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
May 28, 1997

Probe Number	Depth (feet)	Field Value 5/16/97 (% Vol)	Field Value 5/28/97 (% Vol)	Lab Result 5/28/97 (% Vol)	Follow-up Field Value 5/30/97 (% Vol)
8A	5	ND	ND	0.0002	ND

Note: Laboratory samples were collected 5/28/97. Laboratory results are volume percent of methane. Field values are volume percent TOC.

June 14 and 25, 1997 perimeter probe monitoring results indicated non-detect TOC from all probes. On June 26, 1997, Probe 4A at a total depth of 5-feet was sampled. Analytical results indicated methane was at a concentration of 2 ppm methane.

Table III - June 1997
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
June 26, 1997

Probe Number	Depth (feet)	Field Value 6/14/97 (% Vol)	Field Value 6/25/97 (% Vol)	Field Value 6/26/97 (% Vol)	Lab Result 6/26/97 (% Vol)	Follow-up Field Value 7/97 (% Vol)
4A	5	ND	ND	ND	0.0002	NA

Note: Laboratory samples were collected 6/26/97. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NA Not available.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - SECOND QUARTER 1997
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
4/30/97 AREA # 7	2	7
4/30/97 AREA # 8	2	15
5/28/97 AREA # 9	2	8
5/28/97 AREA # 10	2	7
6/26/97 AREA # 11	2	7
6/26/97 AREA # 12	2	9

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Second Quarter of 1997.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 41.4% methane on April 30, 40.5% methane on May 28, and 42.8% methane on June 26, 1997. Dreager tube analytical results were 110 ppm H_2S on April 30 and May 28, and 100 ppm H_2S on June 26, 1997. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

Results from the latest SCAQMD source test sampling, conducted on September 5, 1996, collected from the plant inlet and from engines #1, #2, and #5, were reported in the Fourth Quarter report.

C.6 Report Requirements

This report constitutes the 1997, Second Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

High TOC readings were not found by Positive Lab Service during the second quarter monitoring.

Major compliance endeavors enacted by Los Angeles By-Products Company and Pacific Energy in the past several years include:

- Mitigation wells (8 wells) program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter, 1995 (including revised and improved gas collection system, see Gas Collection System map in Exhibit A); (note that Gas Collection System map has a revised well numbering system) and
- Replacement probes (A1, K1, and J1) installation in Fourth Quarter, 1995.
- Additional Dirt cover, fall 1995 through present, approximately 50,000 c.y.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
exp. 6-30-00
CIVIL
STATE OF CALIFORNIA

Sincerely,
Sepich Associates, Inc.

John Sepich, P.E.
President

J152rept.615/atf

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Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Mr. David Thompson

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Second Quarter, 1997
- EXHIBIT D: Laboratory Analytical Results - Second Quarter, 1997

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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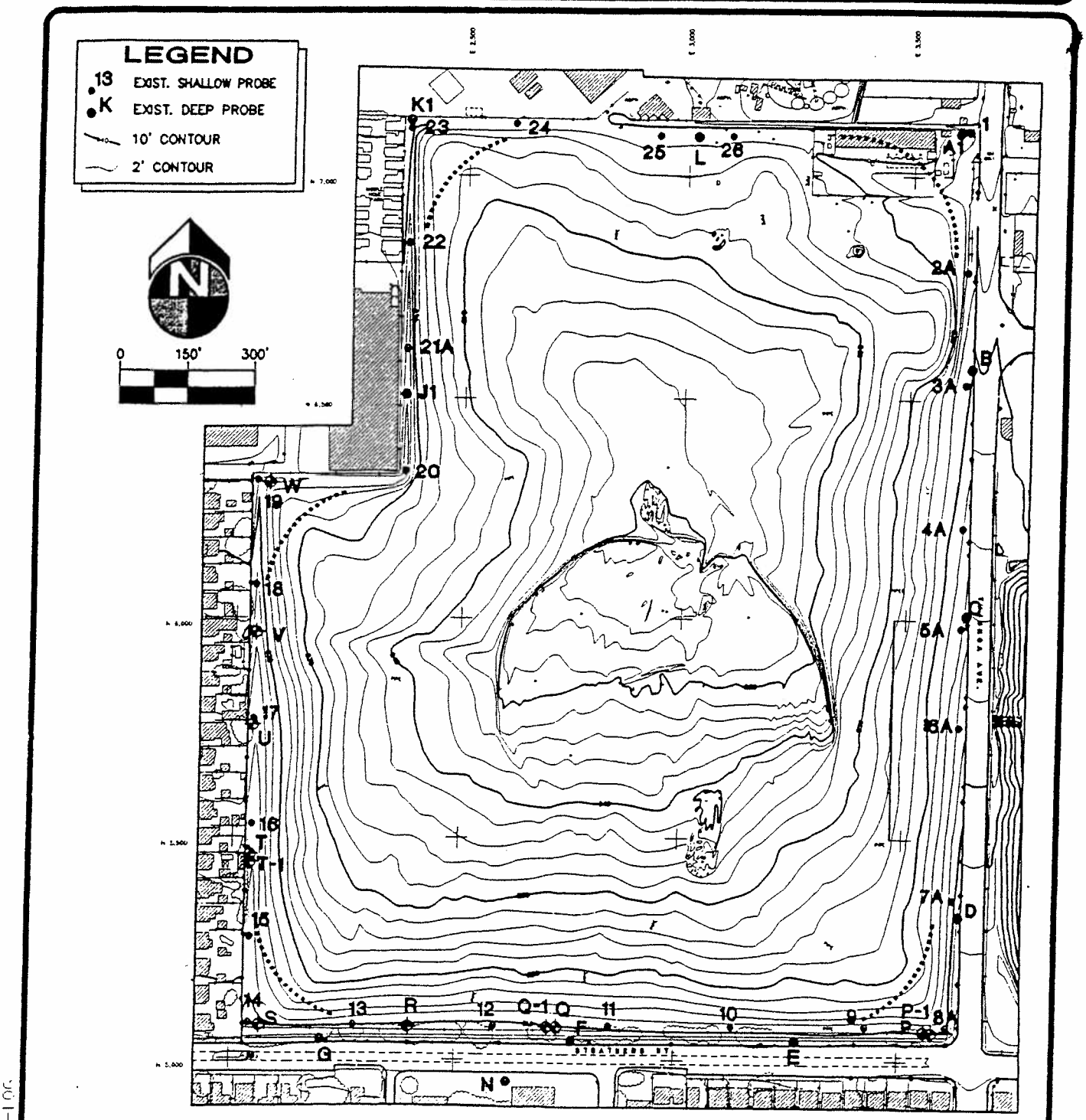
PENROSE LANDFILL
MONITORING PROBE LOCATIONS



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SPECIALISTS

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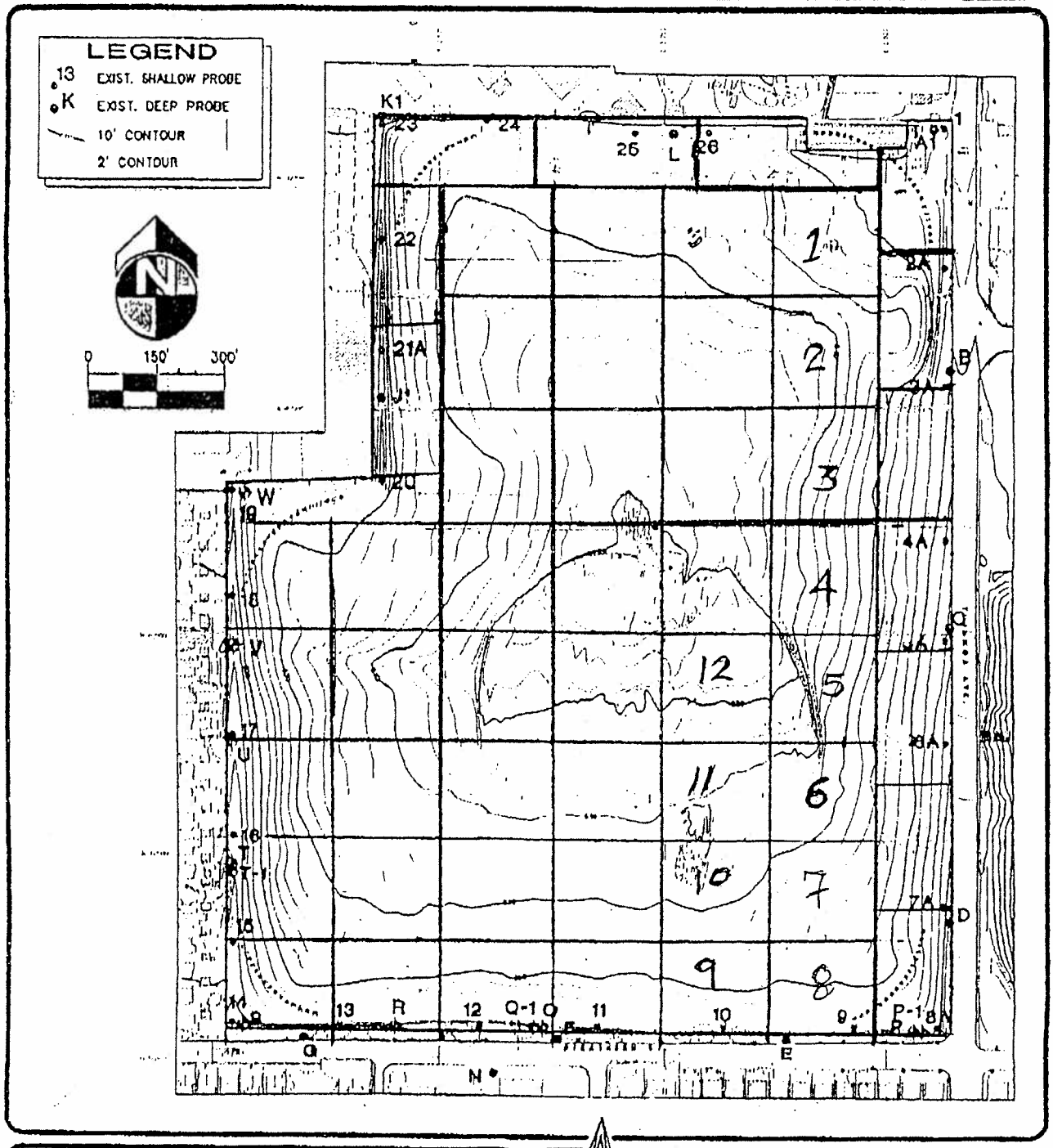
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



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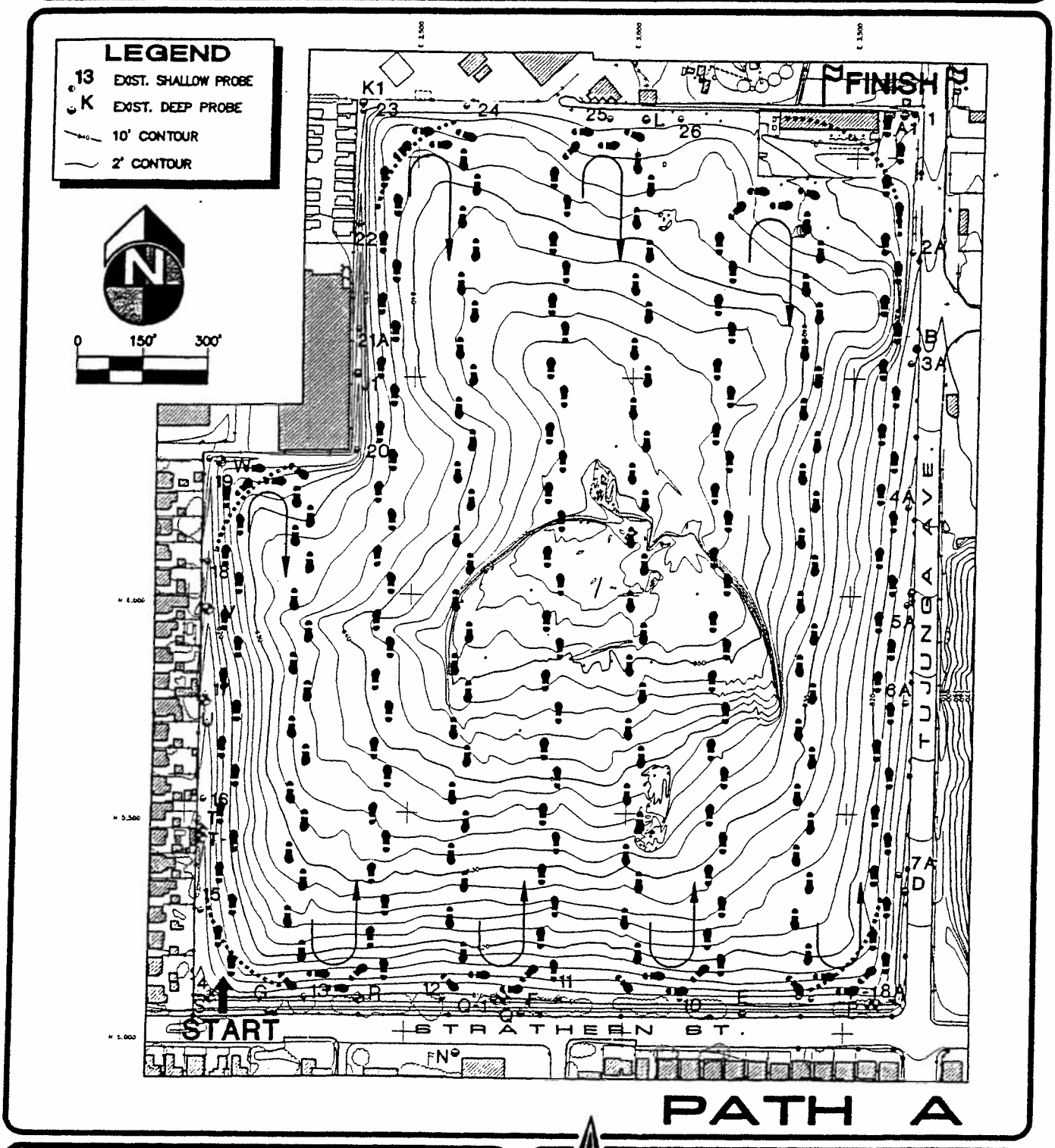
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

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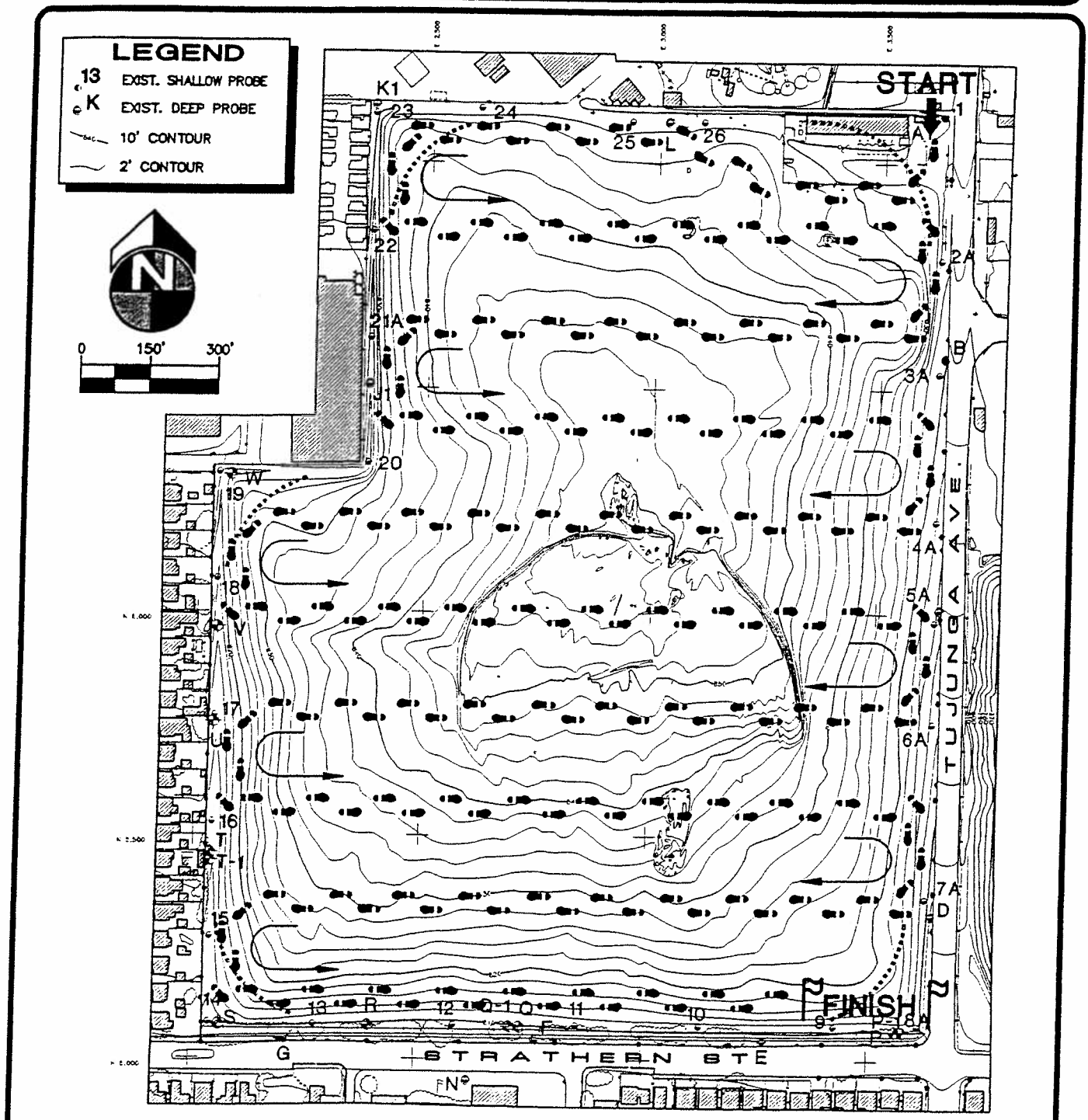
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH B

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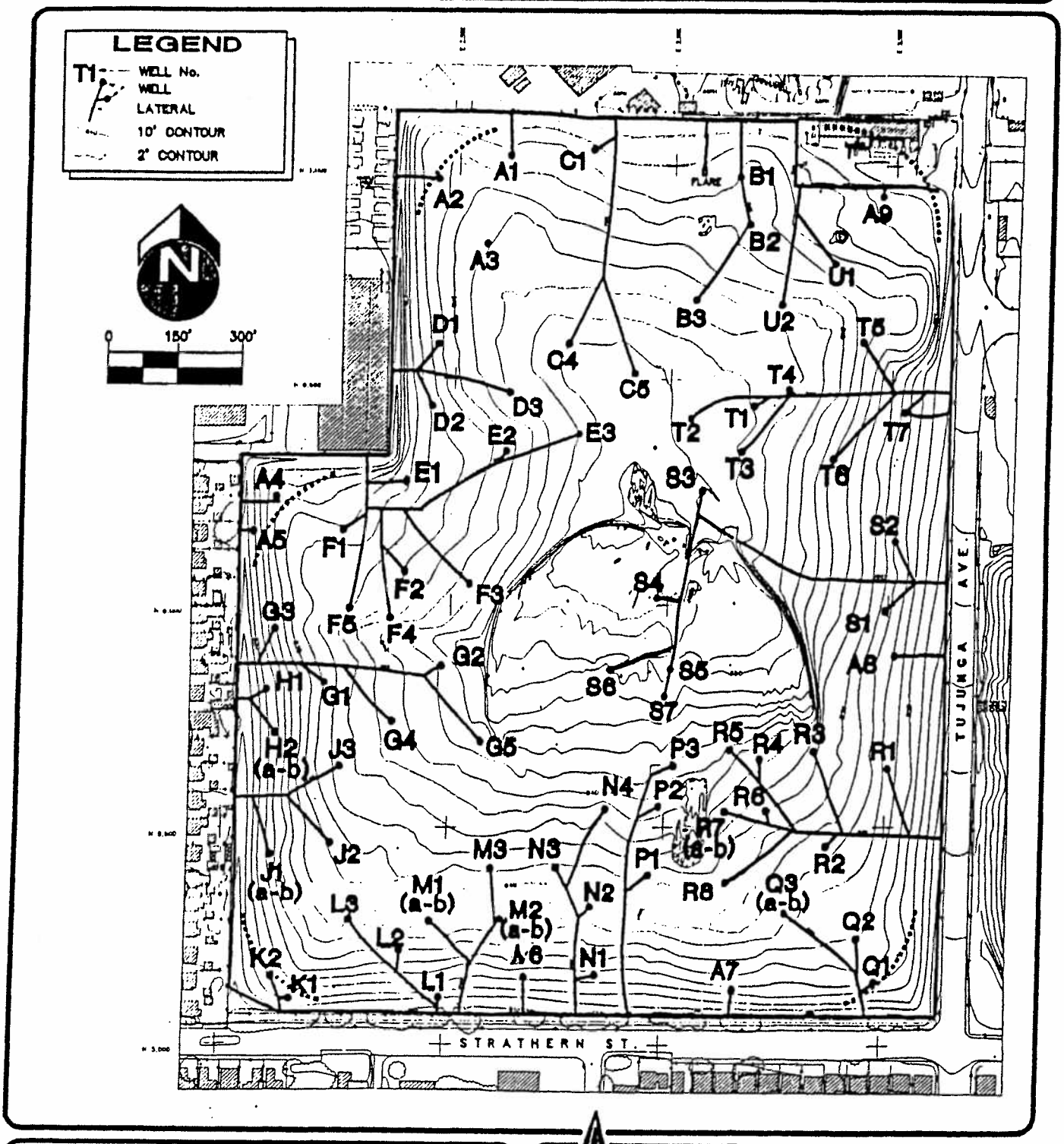
PENROSE LANDFILL GAS COLLECTION SYSTEM



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12-15-95 WELL-SYS

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EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Second Quarter, 1997

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(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

April 15, 1997

RECEIVED
APR 18 1997
L.A. BY-PROD. CO.

FILE NO: 72986

LAB NO: 7104150100

SAMPLE: On 04/11/97 at 13:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

April 15, 1997

FILE NO: 72986

LAB NO: 7104150100

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 04/15/97

INSPECTION REPORT

CLIMATE: humid / clear / fog — cloudy / overcast / rain — <32° F / 33°-55° / 56°-70° — 71°-80° / 81°-100° / >100° F — still / breeze / wind — dry / moderate / humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Bright sunshine with a few clouds and warm temperature was the weather. Electonic wind speed indicator reported a ND. Contractor followed PATH 'A'. Monitor began at 9:30 AM and was completed at 11:10 AM. Result of monitor was ND. The OVA instrument used in monitor was the FOXBORO 128, last calibrated by Robert McAllister at 7:30 AM, 04/15/97. Last recorded rainfall was over one week ago.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
633 West 5th Street
Los Angeles, CA 90071-2006

April 24, 1997

FILE NO: 70237

LAB NO: 7111175700

SAMPLE: On 04/18/97 at 13:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

April 24, 1997

FILE NO: 70237

LAB NO: 7111175700

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 04/30/97

INSPECTION REPORT

CLIMATE: bright, (clear), fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | (still), breeze, wind | dry, (moderate), humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was clear blue skies, bright sunshine and warm temperatures. By the end of the sampling a few clouds had moved in. The electronic wind speed indicator detected a .3 to ND wind velocity. Last recorded rainfall was over 72 hours ago.

All air samples were collected in 10-liter Tedlar bags and placed into a Black trash bag for protection from sunlight. The OVA instrument used was the Foxboro 128 last calibrated by Robert McAllister on 4/15/97. The TOC meter used was a Natural Gas Indicator model npl-204 last calibrated by

☐ REINSPECTION REQUIRED

Robert mcallister
INSPECTOR

PRINCIPAL

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JOB NAME: PENROSE

JOB No. J152-6

DATE 04/30/97

REMARKS CONTINUED: by J.G. Tucker and Son 2-18-96.

The H_2S tests were done with Drager tubes and a Drager Pump. The ISS samples were collected with a portable self-contained unit with its own power (internal) supply, which collected samples at 400 cc/min.

ISS #7 was collected at 9:08 Am and results of Tests were OVA (ND) and H_2S (ND). ISS #8 was collected at 9:35 Am and results of tests were OVA (ND) and H_2S (ND). PPS #8 was collected at 10:15 Am and results of tests were TOC (ND) and H_2S (ND). TSI was collected at 11:00 AM and results of tests were TOC (45%) and H_2S (110 ppm).

Robert McAllister
INSPECTOR

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Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 4/30/97

Job # 3152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		

REMARKS: Clear Blue Skies — Clouds moved in later

TSI 11:00 AM
PPS #8 10:15 AM
ISS #7 9:08 AM
ISS #8 9:35 AM

PROBE #		
1	TOC	H_2S
2		
3		
4		
5		
6		
7		
8	ND	ND
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
TSI	45%	110 ppm

PROBE #				
	B			
C	GREEN-21'			
	YELLOW-41'			
	ORANGE-61'			
	RED-81'			
	D			
	E			
	F			
	G			
	H			
I	GREEN-17'			
	YELLOW-37'			
	ORANGE-57'			
	RED-77'			
	J			
	K			
L	GREEN-45'			
	YELLOW-65'			
	ORANGE-85'			
	RED-105'			
	M			
N	GREEN-22'			
	YELLOW-45'			
	ORANGE-68'			
	RED-90'			
P	10'			
	40'			
	80'			
P-1	120'			

PROBE #			
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'	H_2S	OVA
	ISS #7	ND	ND
	ISS #8	ND	ND

METHANE SPECIALISTS WESTLAKE V

CA. 91362 FAX: (818) 707-3012 (805) 373-898

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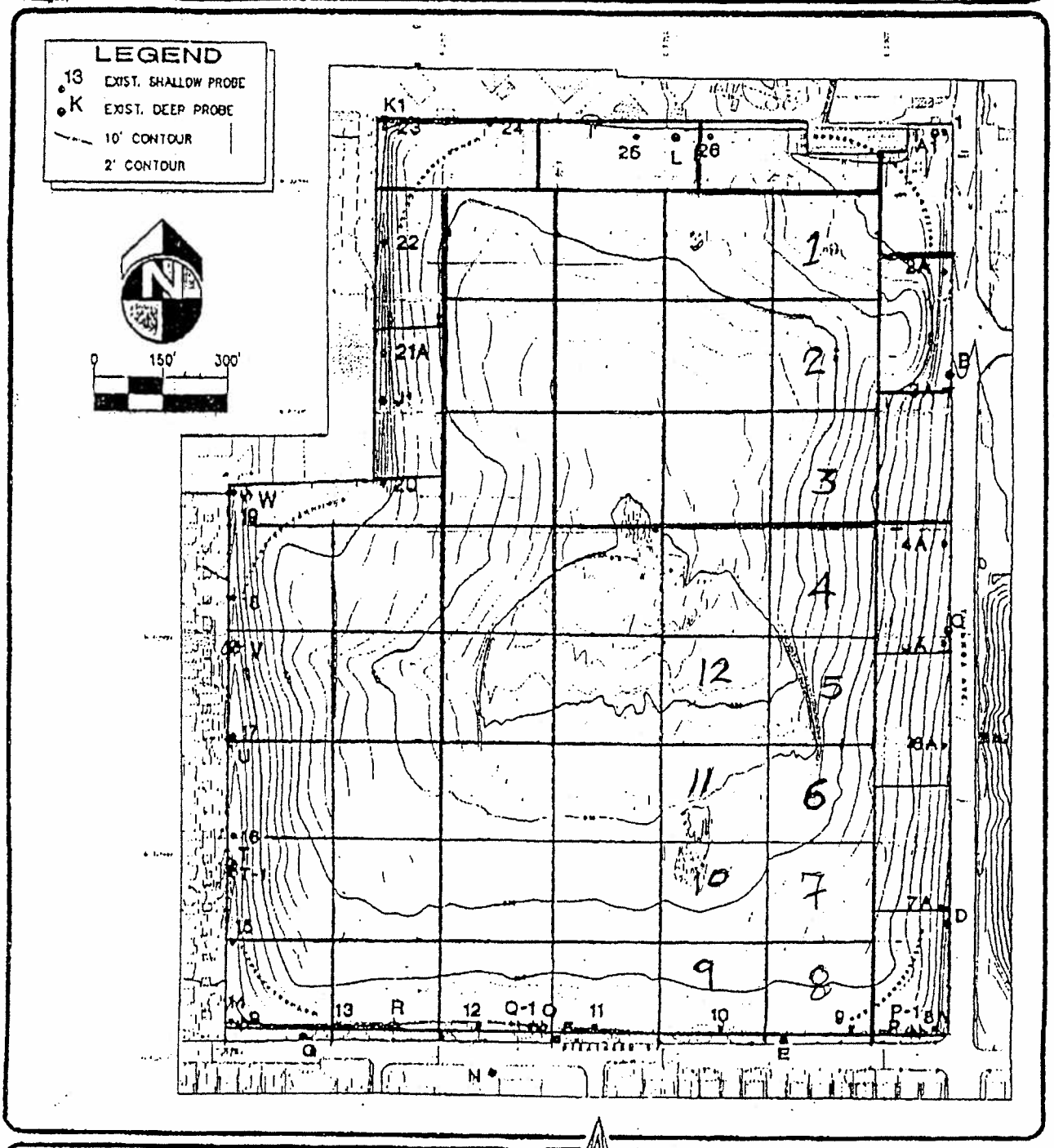
PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING GRID



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JOB NAME: PENROSE

JOB No. 5152-6
DATE 05/12/97

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 33°-55°, 56°-70°, 71-80, 86°-100°, >100° F | calm, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): Robert McAllister

REMARKS: The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister at 7:35 Am on 5/12/97. Contractor followed PATH 'B'. Monitor began at 8:45 Am and concluded at 10:30 Am, with a result of ND. Last recorded rainfall was over 72 hours ago. Electronic wind speed indicator test resulted with ND in wind velocity.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

RECEIVED MAY 20 1997

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

May 21, 1997

FILE NO: 72986

LAB NO: 7139165100

SAMPLE: On 05/16/97 at 14:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

May 21, 1997

FILE NO: 72986

LAB NO: 7139165100

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 05/28/97

INSPECTION REPORT

CLIMATE: (bright) (clear) fog — cloudy overcast rain — <32° F 33°-55° 56°-70° — 71°-85° 86°-100° >100° F — (still) breeze wind — (dry) moderate humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was HOT!!! No clouds & bright sunshine. Electronic wind speed indicator detected ND for wind. Last precipitation was over one week ago.

TOC meter used in testing was a Natural Gas Indicator model npl-204 last calibrated by J.G. Tucker and Son 2-18-96. OVA instrument was a FOXBORO 128 last calibrated by Robert McAllister 5-12-97. H_2S tests were done with Drager tubes and a Drager Pump. All air samples were collected in 10-liter Tedlar bags and placed in a black trash bag for protection from

☐ REINSPECTION REQUIRED

INSPECTOR

PRINCIPAL

SHEET__OF__

001456

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 05/28/97

REMARKS CONTINUED: sunlight. ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min.

ISS #10 was collected at 9:51 AM with results of tests for OVA (ND) and H_2S (ND). ISS #9 was collected at 10:10 AM with results of tests for OVA (ND) and H_2S (ND). PPS #8 was collected at 10:30 AM. with results of tests for TOC (ND) and H_2S (ND). TSI was collected at 11:00 AM with results of tests for TOC (44%) and H_2S (110 ppm).

Robert Maddison
INSPECTOR

PRINCIPAL

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CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 211-4170

PENROSE LANDFILL

Date 5/28/87
Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1	TOC	H_2S
2		
3		
4		
5		
6		
7		
8	ND	ND
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	OVA	H_2S
ISS #9	ND	ND
ISS #10	ND	ND

REMARKS: HOT - Sunny Skies
No Wind
HUMID!!

PROBE #			
B			
C	GREEN-21'		
C	YELLOW-41'		
C	ORANGE-61'		
C	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
I	YELLOW-37'		
I	ORANGE-57'		
I	RED-77'		
J			
K			
L	GREEN-45'		
L	YELLOW-65'		
L	ORANGE-85'		
L	RED-105'		
M			
N	GREEN-22'		
N	YELLOW-45'		
N	ORANGE-68'		
N	RED-90'		
P	10'		
P	40'		
P	80'		
P-1	120'		

PROBE #			
Q	10'		
Q	40'		
Q	75'		
Q-1	120'		
Q-1	158'		
R	10'		
R	40'		
R	80'		
R	120'		
S	10'		
S	40'		
S	80'		
S	120'		
T	10'		
T	40'		
T	73'		
T-1	72'		
U	10'		
U	37'		
U	68'		
V	10'		
V	40'		
V	73'		
W	10'		
W	40'		
W	80'		
W	120'		
W	158'		
		TOC	H_2S
	TSI	44%	110 ppm

001458

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
633 West 5th Street
Los Angeles, CA 90071-2006

RECEIVED
JUN 05 1997

June 2, 1997

FILE NO: 70237

LAB NO: 7153095800

SAMPLE: On 05/30/97 at 14:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

June 2, 1997

FILE NO: 70237

LAB NO: 7153095800

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Ql	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 06/12/97

INSPECTION REPORT

CLIMATE: bright, clear, fog, (cloudy), overcast, rain | <32° F, 33°-55°, 56°-70°, (71°-85°), 86°-100°, >100° F | still, (breeze), wind | dry, moderate, (humid)

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Thick cloud cover with cool temperatures. Electronic wind speed indicator tested a west wind at 1-2.5 mph. The OVA instrument used was FOXBORO 128 last calibrated by Robert McAllister on 6/12/97 at 7:40 Am. The monitor began at 9:15 Am and was finished at 11:30 Am with a result of ND. Last recorded rain was over five days ago. Path A

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

June 17, 1997

FILE NO: 72986

LAB NO: 7167162601

SAMPLE: On 06/14/97 at 09:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "II" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

June 17, 1997

FILE NO: 72986

LAB NO: 7167152601

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
633 West 5th Street
Los Angeles, CA 90071-2006

June 27, 1997

FILE NO: 70237

LAB NO: 7177104900

SAMPLE: On 06/25/97 at 15:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Paul Nakamoto
6055 East Washington Blvd.
Commerce, CA 90040

June 27, 1997

FILE NO: 70237

LAB NO: 7177104900

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Ql	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 6/27/97 6/26/97

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain; <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F; still, breeze, wind; dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Electronic wind meter indicated No detectable wind. Mild temperatures with overcast clouds. Last recorded rain was over one week ago.

ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min. The OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister on 6-12-97. The TOC meter used was a Natural Gas Indicator model npl-204 last calibrated by J.G Tucker and

☐ REINSPECTION REQUIRED

Robert mcallister
INSPECTOR

PRINCIPAL

SHEET__OF__

001466

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. 5152-6

DATE 6/26/97

REMARKS CONTINUED: Son on 2-18-96. The H_2S tests were done with a Drager pump and drager tubes. All air samples were collected in 10-liter tedlar bags and placed in a black trash bag for protection from Sunlight.

ISS #11 was collected at 8:44 AM and tested for OVA (ND) and H_2S (ND). ISS #12 was collected at 9:11 AM and tested for OVA (ND) and H_2S (ND). PPS #4 was collected at 9:40 AM and tested for TOC (ND) and H_2S (ND). TSI was collected at 2:15 pm and tested for TOC (42%) and H_2S (100ppm).

Robert m allisto
INSPECTOR

PRINCIPAL

001407

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 211-4170

PENROSE LANDFILL

Date 6/26/87
Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3	H_2S	TOC
4	ND	ND
5		
TSI	100 ppm	42%
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	H_2S	OVA
ISS #11	ND	ND
ISS #12	ND	ND

REMARKS: Cloudy - OVERCAST
MILD TEMP.

PROBE #			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #			
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		

CA. 91362 FAX: (818) 707-3012 (805) 373-89

METHANE SPECIALISTS WESTLAKE V
red by: ☐
for

CONFIDENTIAL

EXHIBIT D

Laboratory Analytical Results - Second Quarter, 1997

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ACCREDITED

Alex ✓
John ✓

May 08, 1997

Robert McAllister
L.A. By Products/Sepich & Associates
1810 East 25th Street
Los Angeles, CA 90058

Subject: **Calscience Work Order Number:** **97-05-001**
Client Reference: **Penrose Landfill Perimeter Probe Samples/J152-6**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 05/01/97 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Will H Christensen for

Calscience Environmental Laboratories, Inc.
Jody McInerney
Project Manager

Will H Christensen

William H. Christensen
Deliverables Manager

001470

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 04/30/97
Date Received: 05/01/97
Date Analyzed: 05/01/97

Work Order No.: 97-05-001
Method: SCAQMD 25.1

Attn: Robert McAllister
RE: Penrose Landfill Perimeter Probe Samples

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS #8

Analyte	Concentration	Reportable Limit
Methane	2	1
TGNMO	15	1

Sample Number: ISS #7

Methane	2	1
TGNMO	7	1

Sample Number: PPS #8

Methane	2	1
TGNMO	6	1

Sample Number: TSI

Oxygen plus Argon, % v/v	1.1	0.1
Nitrogen, % v/v	17.6	0.1
Carbon Monoxide, % v/v	ND	0.1
Carbon Dioxide, % v/v	43.6	0.1
Methane, % v/v	41.4	0.1
TGNMO	437	1

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	04/30/97
1810 East 25th Street	Date Received:	05/01/97
Los Angeles, CA 90058	Date Analyzed:	05/01/97
	Work Order No.:	97-05-001
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill Perimeter Probe Samples	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Sample Number: Method Blank #1

Analyte	Concentration	Reportable Limit
Oxygen plus Argon, % v/v	ND	0.1
Nitrogen, % v/v	ND	0.1
Carbon Monoxide, % v/v	ND	0.1
Carbon Dioxide, % v/v	ND	0.1
Methane	ND	0.1

Sample Number: Method Blank #2

Methane	ND	1
TGNMO	ND	1

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ACCREDITED

ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 04/30/97
Date Received: 05/01/97
Date Analyzed: 05/01/97

Work Order No.: 97-05-001
Method: SCAQMD 25.1
Page 1 of 1

Attn: Robert McAllister
RE: Penrose Landfill Perimeter Probe Samples

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen plus Argon, % v/v	1.1	1.0	10	0 - 25
Nitrogen, % v/v	17.6	17.4	1	0 - 25
Carbon Monoxide, % v/v	ND	ND	NA	0 - 25
Carbon Dioxide, % v/v	43.6	43.7	0	0 - 25
Methane, % v/v	41.4	41.6	0	0 - 25
TGNMO	437	476	8	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill Perimeter Probe Samples/J152-6		
Work Order Number:	97-05-001		
QC Batch ID:	970501	Date Collected:	04/30/97
Matrix:	Air	Date Received:	05/01/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	05/01/97

Client Sample Number: **ISS #8**
Lab Sample Number: 97-05-001-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	2.4	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.6	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	23.3	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	2.3	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	2.9	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill Perimeter Probe Samples/J152-6		
Work Order Number:	97-05-001		
QC Batch ID:	970501	Date Collected:	04/30/97
Matrix:	Air	Date Received:	05/01/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	05/01/97

Client Sample Number: **ISS #7**
Lab Sample Number: 97-05-001-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	3.0	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	0.5	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	10.6	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	2.9	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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EPA TO-14 SCAQMD Rule 1150.1 Compounds

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill Perimeter Probe Samples/J152-6		
Work Order Number:	97-05-001		
QC Batch ID:	970501	Date Collected:	04/30/97
Matrix:	Air	Date Received:	05/01/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	05/01/97

Client Sample Number: **PPS #8**
Lab Sample Number: 97-05-001-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	2.6	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	0.5	0.5		ppb (v/v)
Benzene	0.8	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	10.5	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	3.1	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill Perimeter Probe Samples/J152-6		
Work Order Number:	97-05-001		
QC Batch ID:	970501	Date Collected:	04/30/97
Matrix:	Air	Date Received:	05/01/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	05/01/97

Client Sample Number: **TSI**
Lab Sample Number: 97-05-001-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	245	20		ppb (v/v)
Acetonitrile	ND	40		ppb (v/v)
1,1-Dichloroethene	ND	20		ppb (v/v)
Methylene Chloride	366	80		ppb (v/v)
1,1-Dichloroethane	28	20		ppb (v/v)
Chloroform	ND	20		ppb (v/v)
1,2-Dichloroethane	ND	20		ppb (v/v)
1,1,1-Trichloroethane	ND	20		ppb (v/v)
Benzene	819	20		ppb (v/v)
Carbon Tetrachloride	ND	20		ppb (v/v)
Toluene	2920	20		ppb (v/v)
Trichloroethene	144	20		ppb (v/v)
Tetrachloroethene	89	20		ppb (v/v)
Chlorobenzene	321	20		ppb (v/v)
Xylenes (total)	2900	60		ppb (v/v)
Benzyl Chloride	ND	20		ppb (v/v)
1,3-Dichlorobenzene	ND	20		ppb (v/v)
1,4-Dichlorobenzene	34	20		ppb (v/v)
1,2-Dichlorobenzene	ND	20		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill Perimeter Probe Samples/J152-6		
Work Order Number:	97-05-001		
QC Batch ID:	970501	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	05/01/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-257

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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LCS/LCSD Batch Number:	970501	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	05/01/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	94	91	60-140	3	0-30	
1,2-Dichloroethane	104	104	60-140	0	0-30	
Benzene	92	90	60-140	2	0-30	
Carbon Tetrachloride	81	80	60-140	1	0-30	
Trichloroethene	98	99	60-140	1	0-30	
Tetrachloroethene	99	100	60-140	1	0-30	
1,4-Dichlorobenzene	87	89	60-140	2	0-30	
1,2-Dichlorobenzene	86	90	60-140	4	0-30	

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(422)

JOB NAME: PENROSE LANDFILL — PERIMETER PROBE SAMPLES, PLANT INLET SAMPLE

FILE (JOB#): J152-6

DATE: 4/30/97

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
5152-6	4/30/97	9:35 Am	C	1	ISS #8	✓	✓		✓					
5152-6	4/30/97	9:08 Am	C	1	ISS #7	✓	✓		✓					
5152-6	4/30/97	10:15 Am	G	1	PPS #8	✓	✓							
5152-6	4/30/97	11:00 Am	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS	4/30/97	
RECEIVED BY:	[illegible]	CALSCIENCE	5-1-97	0835
RELINQUISHED BY:	[illegible]	CALSCIENCE	5-1-97	11:00
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	Calscience	5/01/97	1100

001480

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Calscience Environmental Laboratories, Inc.

ACCREDITED

June 03, 1997

Robert McAllister
L.A. By Products/Sepich & Associates
1810 East 25th Street
Los Angeles, CA 90058

Subject: **Calscience Work Order Number:** **97-05-391**
Client Reference: **Penrose Landfill/J152-6**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 05/28/97 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

William H. Christensen
Deliverables Manager

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 05/28/97
Date Received: 05/28/97
Date Analyzed: 05/29/97

Work Order No.: 97-05-391
Method: SCAQMD 25.1
Page 1 of 3

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: ISS#9

Analyte	Concentration	Reportable Limit
Methane	2	1
TGNMO	8	1

Sample Number: ISS#10

Methane	2	1
TGNMO	7	1

Sample Number: PPS#8

Methane	2	1
TGNMO	6	1

Sample Number: TSI

Oxygen plus Argon	1.0*	0.1
Nitrogen	17.2*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	42.9*	0.1
Methane	40.5*	0.1
TGNMO	987	1

* Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	05/28/97
1810 East 25th Street	Date Received:	05/28/97
Los Angeles, CA 90058	Date Analyzed:	05/29/97
	Work Order No.:	97-05-391
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: Method Blank #1

Analyte	Concentration	Reportable Limit
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1
Methane	ND	1
TGNMO	ND	1

Sample Number: Method Blank #2

Methane	ND*	0.1

* Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 05/28/97
Date Received: 05/28/97
Date Analyzed: 05/29/97

Work Order No.: 97-05-391
Method: SCAQMD 25.1
Page 3 of 3

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen plus Argon	1.0*	1.0*	0	0 - 25
Nitrogen	17.2*	17.1*	1	0 - 25
Carbon Monoxide	ND*	ND*	NA	0 - 25
Carbon Dioxide	42.9*	43.2*	1	0 - 25
Methane	40.5*	40.9*	1	0 - 25
TGNMO	987	1120	13	0 - 25

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-05-391		
QC Batch ID:	970529	Date Collected:	05/28/97
Matrix:	Air	Date Received:	05/28/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	05/29/97

Client Sample Number: **ISS #9**
Lab Sample Number: 97-05-391-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	4.2	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	0.7	0.5		ppb (v/v)
Benzene	1.3	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	32.3	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	8.5	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	4.9	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-05-391		
QC Batch ID:	970529	Date Collected:	05/28/97
Matrix:	Air	Date Received:	05/28/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	05/29/97

Client Sample Number: **ISS #10**
Lab Sample Number: 97-05-391-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	3.7	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	0.7	0.5		ppb (v/v)
Benzene	0.8	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	22.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	0.5	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	4.8	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	3.7	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-05-391		
QC Batch ID:	970529	Date Collected:	05/28/97
Matrix:	Air	Date Received:	05/28/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	05/29/97

Client Sample Number: **PPS #8**
Lab Sample Number: 97-05-391-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	3.0	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	0.6	0.5		ppb (v/v)
Benzene	0.6	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	9.3	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	2.1	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-05-391		
QC Batch ID:	970529	Date Collected:	05/28/97
Matrix:	Air	Date Received:	05/28/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	05/29/97

Client Sample Number: **TSI**
Lab Sample Number: 97-05-391-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	380	100		ppb (v/v)
Acetonitrile	ND	200		ppb (v/v)
1,1-Dichloroethene	ND	100		ppb (v/v)
Methylene Chloride	720	400		ppb (v/v)
1,1-Dichloroethane	ND	100		ppb (v/v)
Chloroform	ND	100		ppb (v/v)
1,2-Dichloroethane	ND	100		ppb (v/v)
1,1,1-Trichloroethane	ND	100		ppb (v/v)
Benzene	11300	100		ppb (v/v)
Carbon Tetrachloride	ND	100		ppb (v/v)
Toluene	5690	100		ppb (v/v)
Trichloroethene	ND	100		ppb (v/v)
Tetrachloroethene	220	100		ppb (v/v)
Chlorobenzene	ND	100		ppb (v/v)
Xylenes (total)	9400	300		ppb (v/v)
Benzyl Chloride	ND	100		ppb (v/v)
1,3-Dichlorobenzene	ND	100		ppb (v/v)
1,4-Dichlorobenzene	ND	100		ppb (v/v)
1,2-Dichlorobenzene	ND	100		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-05-391		
QC Batch ID:	970529	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	05/29/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-275

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

LCS/LCSD Batch Number:	970529	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	05/29/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	109	108	60-140	0	0-30	
1,2-Dichloroethane	98	93	60-140	5	0-30	
Benzene	106	105	60-140	0	0-30	
Carbon Tetrachloride	92	89	60-140	3	0-30	
Trichloroethene	94	97	60-140	3	0-30	
Tetrachloroethene	99	101	60-140	2	0-30	
1,4-Dichlorobenzene	101	104	60-140	2	0-30	
1,2-Dichlorobenzene	103	105	60-140	1	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	5/28/97

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
J152-6	5/28/97	10:10 AM	C	1	ISS #9	✓	✓		✓					
J152-6	5/28/97	9:51 AM	C	1	ISS #10	✓	✓		✓					
J152-6	5/28/97	10:30 AM	G	1	PPS #8	✓	✓							
J152-6	5/28/97	11:00 AM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LA BY-PRODUCTS	5/28/97	
RECEIVED BY:	[illegible]	CALSCIENCE	5/28/97	1340
RELINQUISHED BY:	[illegible]	CALSCIENCE	5/28/97	1825
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	V. Buckman	CALSCIENCE	5/28/97	1825

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates		Date Sampled:	06/26/97
1810 East 25th Street		Date Received:	06/26/97
Los Angeles, CA 90058		Date Analyzed:	06/26/97
		Work Order No.:	97-06-415
Attn: Robert McAllister		Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6		Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS #11

Analyte	Concentration	Reportable Limit
Methane	2	1
TGNMO	7	1

Sample Number: ISS #12

Methane	2	1
TGNMO	9	1

Sample Number: PPS #4

Methane	2	1
TGNMO	8	1

Sample Number: Method Blank

Methane	ND	1
TGNMO	ND	1

001492

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	06/26/97
1810 East 25th Street	Date Received:	06/26/97
Los Angeles, CA 90058	Date Analyzed:	06/26/97
	Work Order No.:	97-06-415
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Sample Number: ISS #12 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Methane	2	2	0	0 - 25
TGNMO	9	8	12	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-06-415		
QC Batch ID:	970626	Date Collected:	06/26/97
Matrix:	Air	Date Received:	06/26/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	06/26/97

Client Sample Number: **ISS #11**
Lab Sample Number: 97-06-415-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	4.5	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.6	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	14.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	3.9	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	3.6	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-06-415		
QC Batch ID:	970626	Date Collected:	06/26/97
Matrix:	Air	Date Received:	06/26/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	06/26/97

Client Sample Number: **ISS #12**
Lab Sample Number: 97-06-415-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.6	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	31.9	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	4.6	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-06-415		
QC Batch ID:	970626	Date Collected:	06/26/97
Matrix:	Air	Date Received:	06/26/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	06/26/97

Client Sample Number: **PPS #4**
Lab Sample Number: 97-06-415-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	2.2	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.8	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	17.8	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	4.0	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	2.9	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-06-415		
QC Batch ID:	970626	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	06/26/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-288

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

LCS/LCSD Batch Number:	970626	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	06/26/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	ualifier
Vinyl Chloride	108	109	60-140	0	0-30	
1,2-Dichloroethane	96	96	60-140	0	0-30	
Benzene	106	108	60-140	1	0-30	
Carbon Tetrachloride	75	74	60-140	1	0-30	
Trichloroethene	102	104	60-140	1	0-30	
Tetrachloroethene	106	106	60-140	0	0-30	
1,4-Dichlorobenzene	101	102	60-140	0	0-30	
1,2-Dichlorobenzene	102	104	60-140	1	0-30	

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JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES	J152-6	6/26/97

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					TOC	REMARKS
J152-6	6-26-97	8:44 AM	C	1	ISS #11	✓	✓	✓						
J152-6	6-26-97	9:11 AM	C	1	ISS #12	✓	✓	✓						
J152-6	6-26-97	9:40 AM	G	1	PPS #4	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS	6/26/97	
RECEIVED BY:	[illegible]	CALSCIENCE	6/26/97	1340
RELINQUISHED BY:	[illegible]	CALSCIENCE	6/26/97	1450
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	V. Buchman	CALSCIENCE	6/26/97	1450

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	06/26/97
1810 East 25th Street	Date Received:	06/27/97
Los Angeles, CA 90058	Date Analyzed:	06/27/97
	Work Order No.:	97-06-431
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Oxygen plus Argon	0.8*	0.1
Nitrogen	17.9*	0.1
Methane	42.8*	0.1
Carbon Dioxide	38.9*	0.1
Carbon Monoxide	ND	1
TGNMO	391	1
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Dioxide	ND*	0.1
Carbon Monoxide	ND	1
TGNMO	ND	1

* Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	06/26/97
1810 East 25th Street	Date Received:	06/27/97
Los Angeles, CA 90058	Date Analyzed:	06/27/97
	Work Order No.:	97-06-431
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: TSI (Duplicate)				
Oxygen plus Argon	0.8*	0.8*	0	0 - 25
Nitrogen	17.9*	17.9*	0	0 - 25
Methane	42.8*	42.9*	0	0 - 25
Carbon Dioxide	38.9*	38.9*	0	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
TGNMO	391	403	3	0 - 25

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-06-431		
QC Batch ID:	970627	Date Collected:	06/26/97
Matrix:	Air	Date Received:	06/27/97
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	06/27/97

Client Sample Number: **TSI**
Lab Sample Number: 97-06-431-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	360	100		ppb (v/v)
Acetonitrile	ND	200		ppb (v/v)
1,1-Dichloroethene	ND	100		ppb (v/v)
Methylene Chloride	ND	400		ppb (v/v)
1,1-Dichloroethane	ND	100		ppb (v/v)
Chloroform	ND	100		ppb (v/v)
1,2-Dichloroethane	ND	100		ppb (v/v)
1,1,1-Trichloroethane	ND	100		ppb (v/v)
Benzene	1310	100		ppb (v/v)
Carbon Tetrachloride	ND	100		ppb (v/v)
Toluene	7870	100		ppb (v/v)
Trichloroethene	320	100		ppb (v/v)
Tetrachloroethene	1230	100		ppb (v/v)
Chlorobenzene	710	100		ppb (v/v)
Xylenes (total)	8020	300		ppb (v/v)
Benzyl Chloride	ND	100		ppb (v/v)
1,3-Dichlorobenzene	ND	100		ppb (v/v)
1,4-Dichlorobenzene	ND	100		ppb (v/v)
1,2-Dichlorobenzene	ND	100		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-06-431		
QC Batch ID:	970627	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Preparation:	N/A	Date Prepared:	N/A
Method:	EPA TO-14	Date Analyzed:	06/27/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-289

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

LCS/LCSD Batch Number:	970627	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	06/27/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	109	112	60-140	2	0-30	
1,2-Dichloroethane	98	96	60-140	2	0-30	
Benzene	110	110	60-140	0	0-30	
Carbon Tetrachloride	74	75	60-140	1	0-30	
Trichloroethene	102	104	60-140	1	0-30	
Tetrachloroethene	104	107	60-140	2	0-30	
1,4-Dichlorobenzene	101	104	60-140	2	0-30	
1,2-Dichlorobenzene	104	107	60-140	2	0-30	

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	6/27/97

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC						Fixed Gas	REMARKS
J152-6	6/26/97	2:15 PM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS CO.	6/27/97	
RECEIVED BY:	[illegible]	CALSCIENCE	6/27/97	0805
RELINQUISHED BY:	[illegible]	CALSCIENCE	6/27/97	0910
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	Calscience	6/27/97	0900

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SEPICH ASSOCIATES, Inc.
and METHANE SPECIALISTS
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WESTLAKE VILLAGE, CA. 91362

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(805) 373-8987

April 10, 1997

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for First Quarter, 1997
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the fourteenth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period January through March 1997.

Monitoring and sampling for this report was performed on January 14 and 30, February 7, 11, 27 and 28, and March 10, 14, 26, and 27, 1997.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet (referred to as TSI for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements. Rule 1150.1 also requires simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes

with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and

core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, January through March 1997, field monitoring was conducted on January 14 and 30, February 7, 11, 27, and 28, and March 10, 14, 26, and 27. Perimeter probe (PPS), integrated surface(ISS), and power plant inlet (TSI) samples were collected for laboratory analysis on January 30, February 27, and March 27, 1997. (see Exhibit C for field documentation).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on January 14 and 30, February 11 and 28, March 14 and 26, 1997 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 48 hours of sampling.

Perimeter probe sampling was conducted at Probe 1 on January 30, at Probe 2A on February 27, and at Probe 6A on March 27, 1997. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on January 30, February 27, and March 27, 1997, by focusing sampling efforts in zones where TOC surface sampling had not been conducted recently. During instantaneous surface monitoring, no areas had detectable TOC readings in January, February, or March. On January 30, Areas 1 and 2 were sampled (see Integrated Surface Sampling Map in Exhibit A), on February 27, Areas 3 and 4 were sampled, and on March 27, Areas 5 and 6 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. The ISS field monitoring results for the First Quarter TOC and H_2S concentrations were all non-detect.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path B was traversed on January 30, and March 10. Path A was traversed on February 7, 1997. In January, February, and March no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Pacific Energy (PE) electrical generation plant inlet pipeline on January 30, February 27, and March 27, 1997. TOC was monitored with a GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were collected on September 5, 1996 and results of inlet analyses were reported in the fourth quarter 1996 report. LA By-Products Company sampled from an inlet containing Penrose gas only. Exhaust samples were collected from three of the engines (#1, #2, and #5) at the power plant by Horizon Air Measurement Services, Inc., for the SCAQMD. The exhaust samples are from the mixture of landfill gas from Penrose, Sheldon, and Bradley landfills, that is being burned at the plant.

B.6 Reporting Requirements

This is the fourteenth in a series of quarterly reports and the first quarterly report for Penrose Landfill for 1997. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Positive Lab Service. Their early (to mid-) month data was used to select the monthly probe sampling stations and their (mid to) late-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Field monitoring data are attached in Exhibit C and laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

January 14, 1997 perimeter probe monitoring results indicated non-detect (ND) readings of TOC from all probes. Probe #1 (at 1.5-foot depth) was sampled on January 30, 1997.

Table I - January 1997
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBE SAMPLED ON
January 30, 1997

Probe Number	Depth (feet)	Field Value 1/14/97 (% Vol)	Field Value 1/30/97 (% Vol)	Lab Results 1/30/97 (% Vol)	Follow-up Field Value 2/11/97 (% Vol)
1	1.5	ND	ND	0.000711	ND

Note: Laboratory samples were collected 1/30/97. Field values are volume percent TOC.

ND None detected.

Probe 2A (5-foot depth) was sampled on February 27, 1997. Analytical results from the February 27, 1997 sample recorded 2120 parts per million (ppm) methane.

Table II - February 1997
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
February 27, 1997

Probe Number	Depth (feet)	Field Value 2/11/97 (% Vol)	Field Value 2/27/97 (% Vol)	Lab Result 2/27/97 (% Vol)	Follow-up Field Value 2/28/97 (% Vol)
2A	5	ND	ND	0.212	ND

Note: Laboratory samples were collected 2/27/97. Laboratory results are volume percent of methane. Field values are volume percent TOC.

March 14, 1997 perimeter probe monitoring results indicated non-detect TOC from all probes. On March 27, 1997, Probe 6A at a total depth of 5-feet was sampled. Analytical results indicated methane was at a concentration of 2.5% of volume.

Table III - March 1997
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
March 27, 1997

Probe Number	Depth (feet)	Field Value 3/14/97 (% Vol)	Field Value 3/26/97 (% Vol)	Field Value 3/27/97 (% Vol)	Lab Result 3/27/97 (% Vol)	Follow-up Field Value 4/14/97 (% Vol)
6A	5	ND	ND	ND	2.5	ND

Note: Laboratory samples were collected 3/27/97. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NA Not available.

Prior to bi-monthly probe monitoring on March 26, 1997, the generation plant had be shut down for several day for maintenance. The monitoring results indicated the following readings:

Probe #	TOC (% Vol.)
6A	ND,
P @ 40'	1,
P @ 80'	20, and
U @ 68'	5.

All other probes registered readings of non-detect.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FIRST QUARTER 1997
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
1/30/97 AREA # 1	2.64	2.02
1/30/97 AREA # 2	3.39	2.72
2/27/97 AREA # 3	5	3
2/27/97 AREA # 4	2	4
3/27/97 AREA # 5	2	3
3/27/97 AREA # 6	2	4

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the First Quarter of 1997.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 45.8% methane on January 30, 45.3% methane on February 27, and 41.7% methane on March 27, 1997. Dreager tube analytical results were 85 ppm H_2S on January 30, 70 ppm H_2S on February 27, and 120 ppm H_2S on March 27, 1997. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

Results from the latest SCAQMD source test sampling, conducted on September 5, 1996, collected from the plant inlet and from engines #1, #2, and #5, were reported in the Fourth Quarter report.

C.6 Report Requirements

This report constitutes the 1997, First Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

The high TOC readings found by Positive Lab Service on March 26, 1997, followed several days of plant shut down for maintenance. Following the return to normal operations, the 'hot' probes have been monitored to confirm containment of landfill gas. By April 10, 1997, all probes at P and U were ND. On April 14, 1997, Probe # 6A was ND.

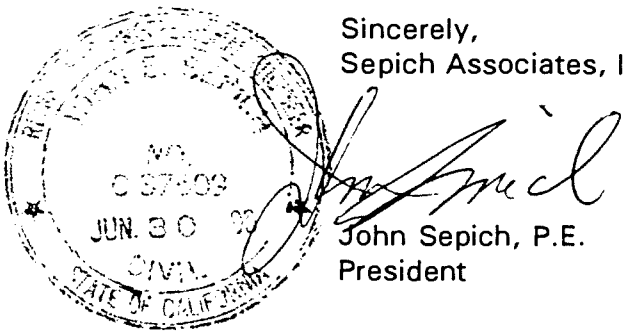
Major compliance endeavors enacted by Los Angeles By-Products Company and Pacific Energy in the past several years include:

- Mitigation well program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter, 1995 (including revised and improved gas collection system, see Gas Collection System map in Exhibit A); (note that Gas Collection System map has a revised well numbering system) and
- Replacement probe (A1, K1, and J1) installation in Fourth Quarter, 1995.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.



John Sepich, P.E.
President

J152rept.614/atf

Public Facilities Branch / SCAQMD April 10, 1997

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Mr. David Thompson

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - First Quarter, 1997
- EXHIBIT D: Laboratory Analytical Results - First Quarter, 1997

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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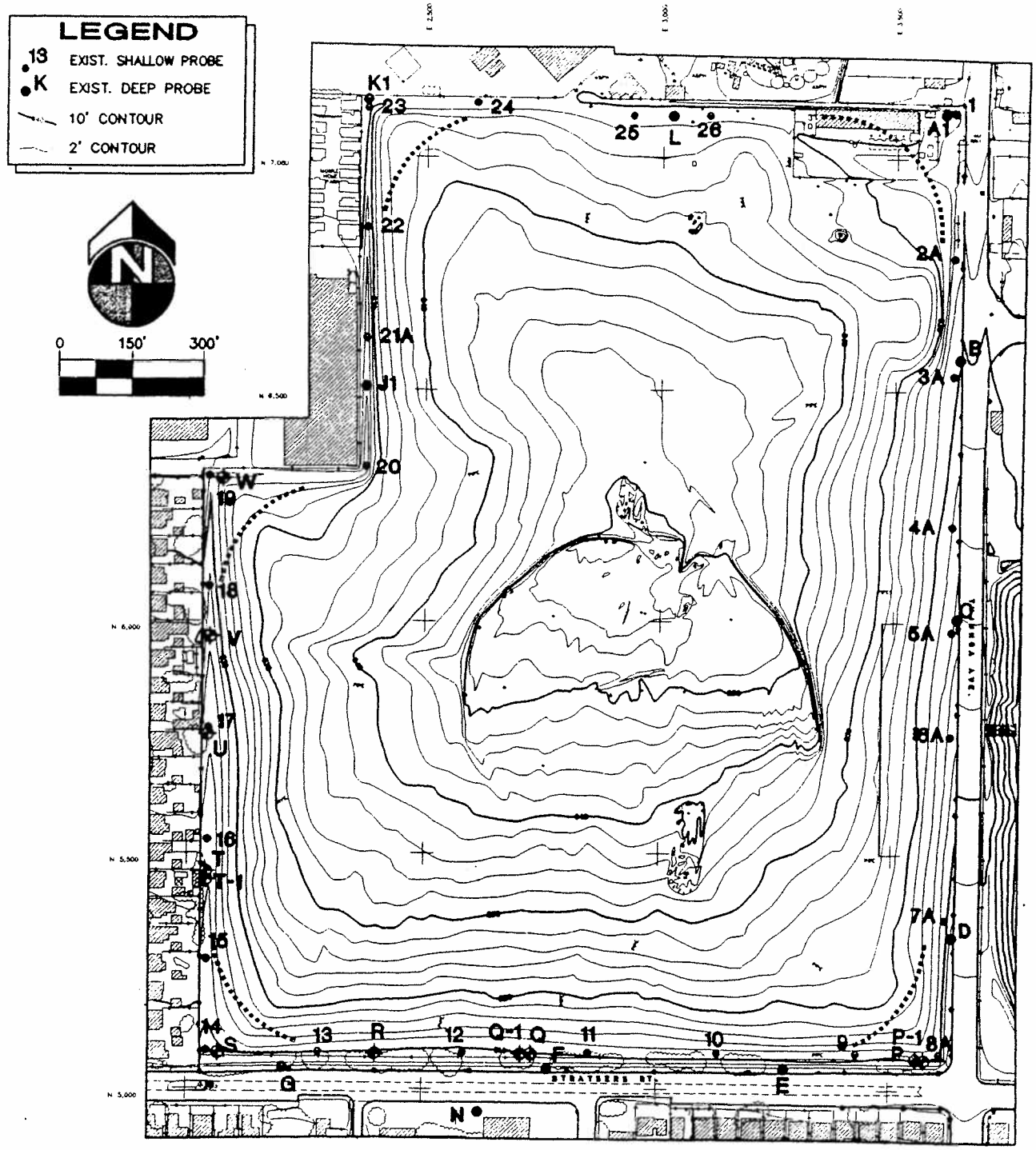
J152-6

PENROSE LANDFILL
MONITORING PROBE LOCATIONS



SEPICH ASSOCIATES, Inc. CIVIL ENGINEERS SANITARY ENVIRONMENTAL WASTE AND GAS CONTROL SPECIALISTS
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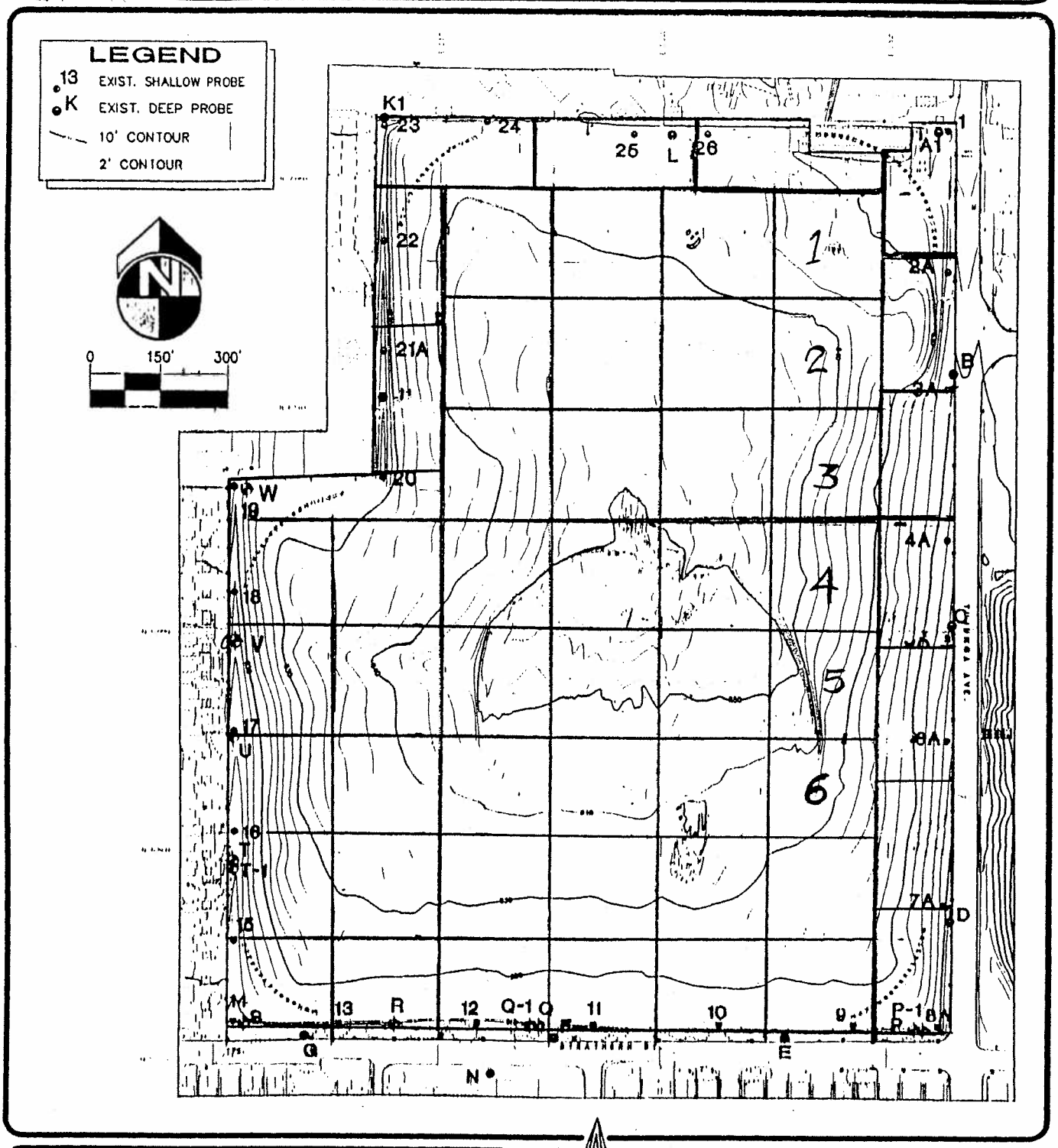
PENROSE LANDFILL
INTEGRATED SURFACE SAMPLING GRID



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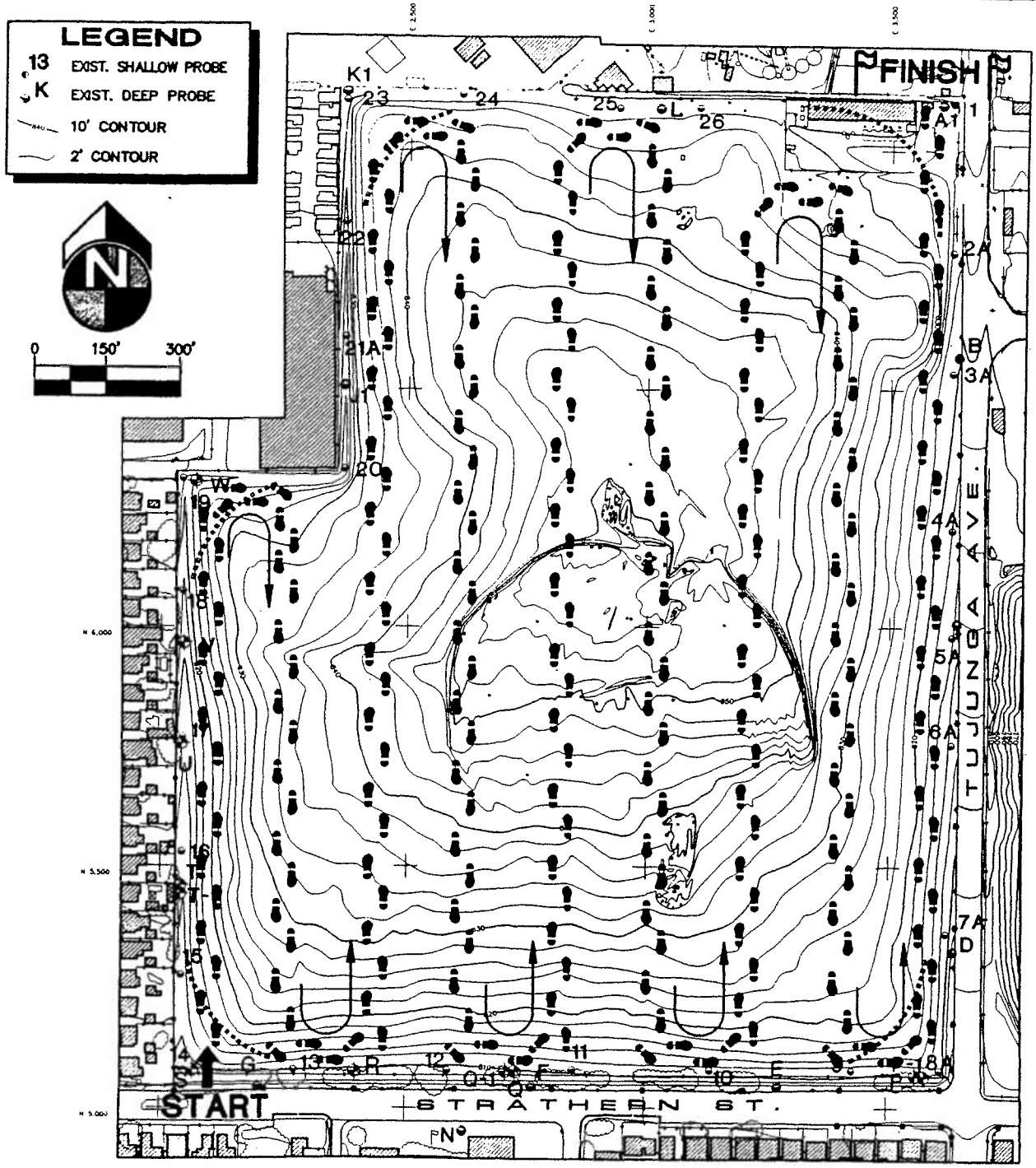
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

SEPICH ASSOCIATES, Inc.
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4-26-96 J152-4 AIH

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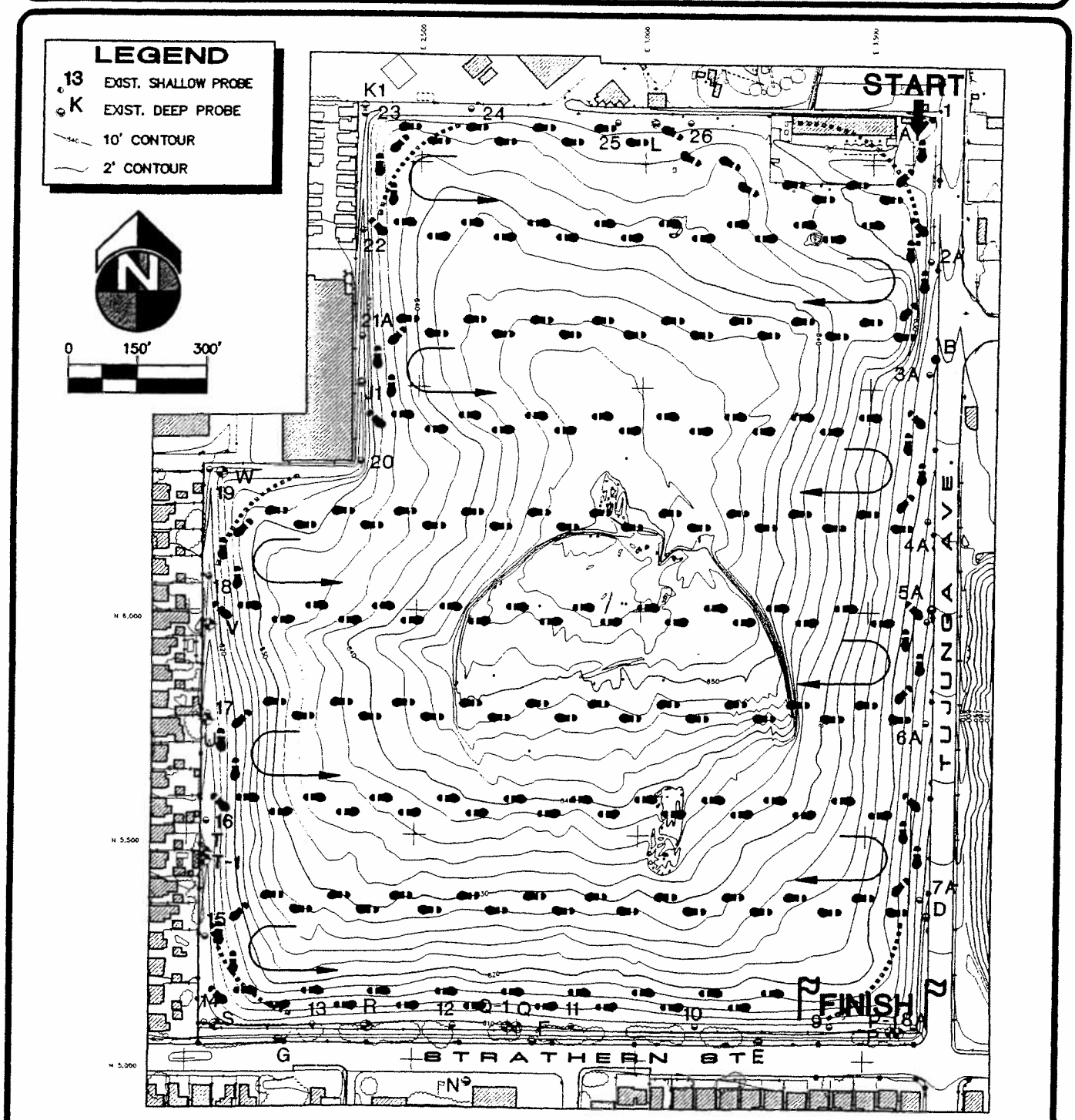
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH B

SEPICH ASSOCIATES, Inc.
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4-26-96 J152PATH

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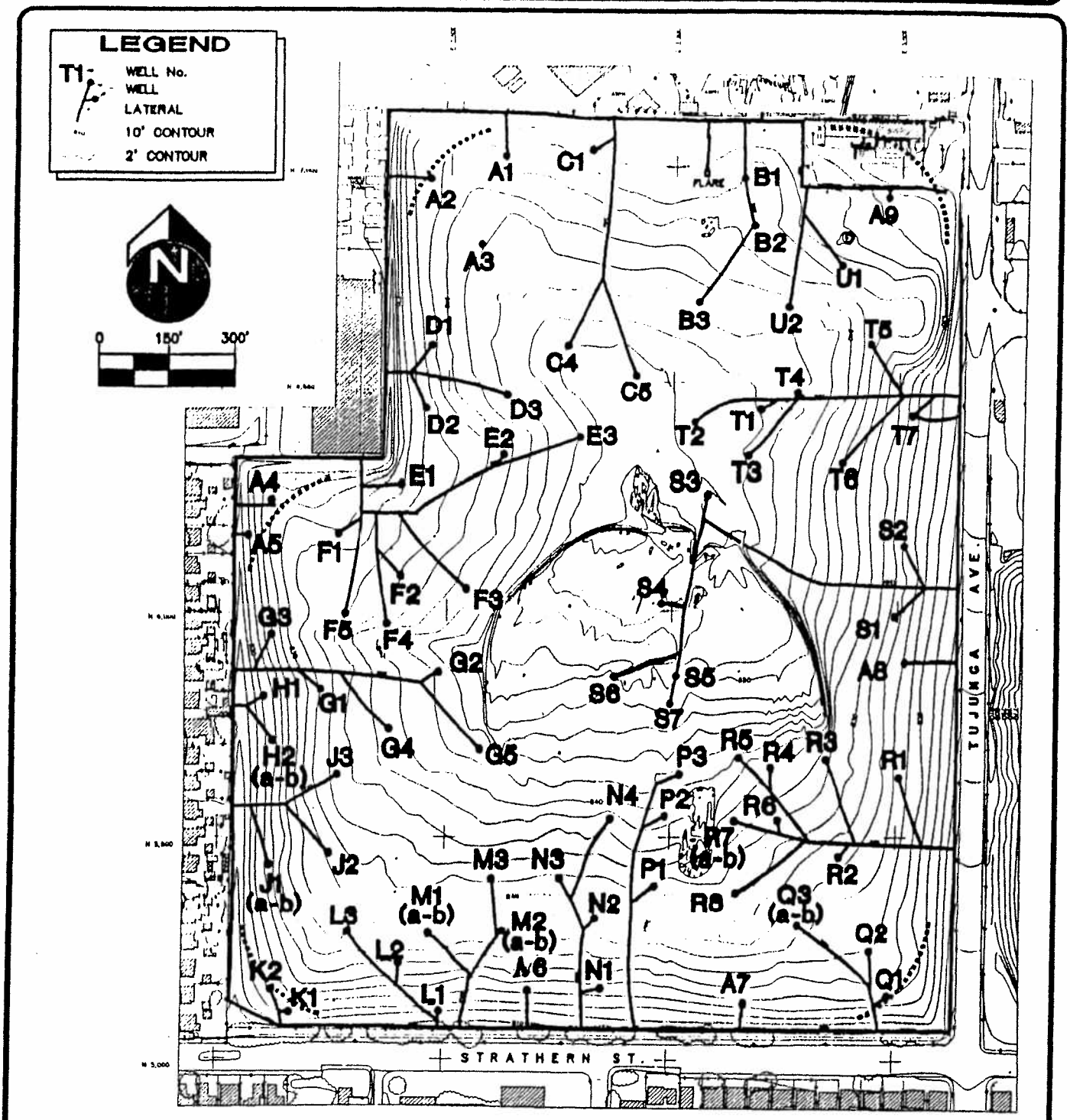
J152-6

PENROSE LANDFILL GAS COLLECTION SYSTEM



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WASTE AND
GAS CONTROL
SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-8321
FAX: (818) 707-3012 (805) 373-8987

Los Angeles By-Products Co.
Incorporated 1925
1810 East 28th St., Los Angeles, CA 90058
Tel: (213) 233-4178 Fax: (213) 233-4170

SHEET OF

001521

12-15-96 WELL-SYS

EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - First Quarter, 1997

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

January 17, 1997

FILE NO: 72986

LAB NO: 7015095201

SAMPLE: On 01/14/97 at 14:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

January 17, 1997

FILE NO: 72986

LAB NO: 7015095201

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
633 West 5th Street
Los Angeles, CA 90071-2006

February 4, 1997

RECEIVED FEB 06 1997

FILE NO: 70237

LAB NO: 7030171400

SAMPLE: On 01/30/97 at 09:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	N/A	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

February 4, 1997

FILE NO: 70237

LAB NO: 7030171400

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	**	Red	ND	@ 10'	ND
Yellow	ND	Yellow	**	Yellow	ND	@ 40'	ND
Orange	ND	Orange	**	Orange	ND	@ 80'	ND
Green	ND	Green	**	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	PLUGGED	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible
** Could not locate probe

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 1/30/97

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Clear blue Skies with great visibility. Last recorded rain fall was over 72 hours ago. Contractor followed PATH 'B'. OVA instrument used in monitor was a FOXBORO 128 last calibrated on 1/30/97 at 7:20 am. by Robert McAllister. Contractor used an electronic Wind Speed indicator which indicated a .4 to 3.1 mph. wind velocity. The monitor began at 10:15 AM and was finished at 12:00 Noon. The result of monitor was N.D.

☐ REINSPECTION REQUIRED

Robert mc allister
INSPECTOR

PRINCIPAL

SHEET__OF__

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 1/30/97

INSPECTION REPORT

CLIMATE: (clear) cloudy overcast fog rain | <32° F 33°-55° 56°-70° 71°-85° 86°-100° >100° F | (wind) | dry moderate humid

LOCATION: PENROSE

PURPOSE: TSI, ISS, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Clear blue skies with a slight wind .4 to 3.1 mph. wind velocity. Last recorded rainfall was over 72 hours ago.

The TOC meter used in tests was a Natural Gas Indicator model npL-204 last calibrated by J.G. Tucker and Son on 2-13-96. The OVA instrument used was the Foxboro 128 last calibrated by Robert McAllister at 7:20 am. 1/30/97. The H_2S tests were done with Dräger tubes and a Drager pump. The ISS samples were collected with a portable self-contained unit with its own internal power supply which collected samples at 400 cc/min. All samples were collected

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 1/30/97

REMARKS CONTINUED: in 10-liter Tedlar bags and placed in a black trash bag for protection from Sunlight.

The ISS #1 sample was collected at 8:40 am and tested for OVA (ND) and H_2S (ND). The ISS #2 sample was collected at 9:05 am and tested for OVA (ND) and H_2S (ND). The TSI sample was collected at 9:40 am and tested for TOC (45%) and H_2S (85 ppm). The PPS #1 sample was collected at 10:10 am and tested for TOC (ND) and H_2S (ND).

Robert Allisto
INSPECTOR

PRINCIPAL

SHEET__OF__

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1925
1010 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 1-30-97

Job # 5152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1	ND	ND
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	H_2S	TOC
TSI	85 ppm	45%

REMARKS:
8:40 AM ISS #1
9:05 AM ISS #2
9:40 AM TSI
10:10 AM PPS #1

Sunny Clear Blue Skies
No Wind.
Last Rain Sunday.

PROBE #			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #			
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'	H_2S	OVA
	ISS #1	ND	ND
	ISS #2	ND	ND

001531

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6
DATE 2/7/97

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Thick cloud cover. Last rainfall recorded was over 72 hours ago. An electronic wind speed indicator detected No wind. OVA instrument used was the FOXBORO 128, last calibrated by Robert McAllister on 2/7/97 at 7:30 am. Contractor followed path 'A'. Monitor began at 8:35 am and finished at 10:50 am. There were No Detections during monitor.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

February 14, 1997

FILE NO: 72986

LAB NO: 7044165400

SAMPLE: On 02/11/97 at 14:45, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

February 14, 1997

FILE NO: 72986

LAB NO: 7044165400

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 2/27/97

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather consists of thick cloud cover and cool temperatures. The electronic wind speed indicator determined a .2 to 4.0 mph wind from the South. Last recorded rainfall was over 72 hours ago.

The TOC meter used in tests was a Natural Gas Indicator model npl-204 last calibrated by J.G. Tucker and Son on 2-13-96. The H_2S tests were done with Drager tubes and a Drager pump. The OVA instrument used was the Foxboro 128 last calibrated on 2/7/97 at 7:30 am by Robert McAllister. The ISS samples were collected with a portable

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6
DATE 2/27/97

REMARKS CONTINUED: self-contained unit with its own internal power supply which collected samples at 400 cc/min. All air samples were collected in 10-liter Tedlar bags and placed in a black trash bag for protection from Sunlight.

The ISS # 3 was collected at 8:40 am and tested H_2S (ND) and OVA (ND). The ISS #4 was collected at 9:05 am and tested H_2S (ND) and OVA (ND). The PPS #2 was collected at 9:30 am and tested TOC (ND) and H_2S (ND). The TSI was collected at 9:55 AM and tested for TOC (46%) and H_2S (70 ppm).

INSPECTOR

PRINCIPAL

SHEET__OF__

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 3/27/97

Job # J152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME		
INSTRUMENT		
PARAMETER		

REMARKS: Cloudy - overcast - cool TEMP - Slight breeze - DAMP - MISTY.

PROBE #		
1	TDC	H_2S
2	1%	
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
TSI	46%	70 ppm

PROBE #				
	B			
C	GREEN-21'			
C	YELLOW-41'			
C	ORANGE-61'			
C	RED-81'			
	D			
	E			
	F			
	G			
	H			
I	GREEN-17'			
I	YELLOW-37'			
I	ORANGE-57'			
I	RED-77'			
	J			
	K			
L	GREEN-45'			
L	YELLOW-65'			
L	ORANGE-85'			
L	RED-105'			
	M			
N	GREEN-22'			
N	YELLOW-45'			
N	ORANGE-68'			
N	RED-90'			
P	10'			
P	40'			
P	80'			
P-1	120'			

PROBE #				
Q	10'			
Q	40'			
Q	75'			
Q-1	120'			
Q-1	158'			
R	10'			
R	40'			
R	80'			
R	120'			
S	10'			
S	40'			
S	80'			
S	120'			
T	10'			
T	40'			
T	73'			
T-1	72'			
U	10'			
U	37'			
U	68'			
V	10'			
V	40'			
V	73'			
W	10'			
W	40'			
W	80'			
W	120'			
	158'	QUA	H_2S	
	ISS 3	ND	ND	
	ISS 4	ND	ND	

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
633 West 5th Street
Los Angeles, CA 90071-2006

March 4, 1997

FILE NO: 70237

LAB NO: 7062160300

SAMPLE: On 02/28/97 at 13:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

March 4, 1997

FILE NO: 70237

LAB NO: 7062160300

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6
DATE 3/10/97

INSPECTION REPORT

CLIMATE: (bright) cloudy clear overcast fog rain | <32° F 71-85° 33°-55° 86°-100° 56°-70° >100° F | (still) breeze wind | dry (moderate) humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Contractor followed Path 'B'. The OVA instrument used in monitor was a FOXBORO 128 last calibrated by Robert McAllister 3/10/97 at 7:45 AM. The monitor began at 9:15 am and finished at 11:00 am. The result of monitor was N.D. Last recorded rainfall was over 72 hours ago. The electronic wind speed indicator did not detect any wind. There was a high cloud layer with very bright sunshine.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

March 19, 1997

RECEIVED
MAR 24 1997
L.A. BY-PRODS

FILE NO: 72986

LAB NO: 7077140100

SAMPLE: On 03/14/97 at 14:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

March 19, 1997

FILE NO: 72986

LAB NO: 7077140100

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
633 West 5th Street
Los Angeles, CA 90071-2006

April 1, 1997

RECEIVED
APR 07 1997
L.A. BY-PROD. CO.

FILE NO: 70237

LAB NO: 7086175101

SAMPLE: On 03/26/97 at 08:45, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

April 1, 1997

Page 2

FILE NO: 70237

LAB NO: 7086175101

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	1%
Orange	ND	Orange	ND	Orange	ND	@ 80'	20%
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	5%	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 3/27/97

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain — <32° F / 32°-85° / 33°-55° / 86°-100° / 56°-70° / >100° F — still / breeze / wind — dry / moderate / humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: The electronic wind speed indicator detected a South west wind at 2.0 to 3.8 mph. There was a high cloud layer causing overcast weather. Last recorded rainfall was over 72 hours ago.

All air samples were collected in 10-liter Tedlar bags and placed in a Black Trash bag for protection from Sunlight. The H_2S tests were done with Drager Tubes and a Drager Pump. The TOC meter used was a Natural Gas Indicator model NPI-204 last calibrated by J.G. Tucker and Son 2-18-96. The OVA instrument used was the Foxboro 128 last calibrated by Robert McAllister on 3/10/97 at 7:45am.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6

DATE 3/27/97

REMARKS CONTINUED: The ISS samples were collected with a portable self-contained unit with its own internal power supply which collected samples at 400 cc/min.

The TSI sample was collect at 10:30 Am and tested for TOC (45%) and H_2S (120 ppm). The ISS #5 was collected at 10:45 Am and tested for OVA(ND) and H_2S(ND). The ISS #6 was collected 11:05 am and tested for OVA(ND) and H_2S(ND). The PPS #6 was collected at 11:30 am and tested for TOC(ND) and H_2S (ND).

Robert M. Elliott
INSPECTOR

PRINCIPAL

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Los Angeles By-Products Co.
Incorporated 1925
1010 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 3/27/97
Job # J152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5	TOC	H_2S
6	ND	ND
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	OVA	H_2S
ISS 5	ND	ND
ISS 6	ND	ND

REMARKS: Overcast slight South wind.
TSI 10:50 AM
ISS 5 10:45
ISS 6 11:05
PPS #6 11:30

PROBE #			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #			
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
		TOC	H_2S
	TSI	45%	120 ppm

001547

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SEPICH ASSOCIATES, Inc.
3517 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6
DATE 4/10/97

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain

<32° F / 70°-86° / 33°-55° / 86°-100° / 56°-70° / >100° F

still / breeze / wind

dry / moderate / humid

LOCATION: PENROSE

PURPOSE: PPM.

CONTRACTOR(S): Robert McAllister

REMARKS: Clear skies with a few clouds over the mountains. A south wind at approximately 5mph, was recorded. Contractor monitored probe P at 10', 40' and 80' and probe U at 10', 37', and 68' with a result of ND for all probes.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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EXHIBIT D

Laboratory Analytical Results - First Quarter, 1997

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-01-346		
QC Batch ID:	970130	Date Collected:	01/30/97
Matrix:	Air	Date Received:	01/30/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	01/31/97

Client Sample Number: **ISS #1**
Lab Sample Number: 97-01-346-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	1.4	0.5		ppb (v/v)
Benzene	1.7	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	14.3	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	2.7	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	11.4	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	9.1	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-01-346		
QC Batch ID:	970130	Date Collected:	01/30/97
Matrix:	Air	Date Received:	01/30/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	01/31/97

Client Sample Number: **ISS #2**
Lab Sample Number: 97-01-346-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	2.5	0.5		ppb (v/v)
Benzene	2.8	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	21.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	2.3	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	15.8	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	9.9	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-01-346		
QC Batch ID:	970131	Date Collected:	01/30/97
Matrix:	Air	Date Received:	01/30/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	01/31/97

Client Sample Number: **TSI**
Lab Sample Number: 97-01-346-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	280	50		ppb (v/v)
Acetonitrile	ND	100		ppb (v/v)
1,1-Dichloroethene	ND	50		ppb (v/v)
Methylene Chloride	230	200		ppb (v/v)
1,1-Dichloroethane	ND	50		ppb (v/v)
Chloroform	ND	50		ppb (v/v)
1,2-Dichloroethane	ND	50		ppb (v/v)
1,1,1-Trichloroethane	ND	50		ppb (v/v)
Benzene	930	50		ppb (v/v)
Carbon Tetrachloride	ND	50		ppb (v/v)
Toluene	4590	50		ppb (v/v)
Trichloroethene	730	50		ppb (v/v)
Tetrachloroethene	2200	50		ppb (v/v)
Chlorobenzene	240	50		ppb (v/v)
Xylenes (total)	4190	150		ppb (v/v)
Benzyl Chloride	ND	50		ppb (v/v)
1,3-Dichlorobenzene	ND	50		ppb (v/v)
1,4-Dichlorobenzene	ND	50		ppb (v/v)
1,2-Dichlorobenzene	ND	50		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-01-346		
QC Batch ID:	970131	Date Collected:	01/30/97
Matrix:	Air	Date Received:	01/30/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	01/31/97

Client Sample Number: **PPS #1**
Lab Sample Number: 97-01-346-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	1.4	0.5		ppb (v/v)
Benzene	1.7	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	11.7	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	2.3	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	10.3	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	5.3	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-01-346		
QC Batch ID:	970130	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	01/31/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-197

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Penrose Landfill/J152-6		
Work Order Number:	97-01-346		
QC Batch ID:	970131	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	01/31/97

Client Sample Number: **Method Blank 2**
Lab Sample Number: 095-01-021-198

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	970130	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	01/31/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qua
Vinyl Chloride	89	90	60-140	1	0-30	
1,2-Dichloroethane	120	120	60-140	0	0-30	
Benzene	93	95	60-140	2	0-30	
Carbon Tetrachloride	114	113	60-140	0	0-30	
Trichloroethene	116	113	60-140	2	0-30	
Tetrachloroethene	117	116	60-140	0	0-30	
1,4-Dichlorobenzene	112	112	60-140	0	0-30	
1,2-Dichlorobenzene	106	107	60-140	0	0-30	

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

LCS/LCSD Batch Number:	970131	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	02/01/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifi
Vinyl Chloride	107	104	60-140	2	0-30	
1,2-Dichloroethane	100	102	60-140	1	0-30	
Benzene	103	103	60-140	0	0-30	
Carbon Tetrachloride	102	101	60-140	0	0-30	
Trichloroethene	106	105	60-140	0	0-30	
Tetrachloroethene	106	106	60-140	0	0-30	
1,4-Dichlorobenzene	113	98	60-140	14	0-30	
1,2-Dichlorobenzene	110	111	60-140	0	0-30	

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GLOSSARY OF TERMS AND QUALIFIERS

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Work Order Number: 97-01-346

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

CO, CH_4, CO_2, O_2, N_2 & Total Gaseous Non-Methane Organics (TGNMO) Analysis in Tanks by SCAQMD Method 25 (FID/TCA)

Report Date: February 6, 1997
Client: CalScience Environmental Laboratories, Inc.
Client Project No.: 97-01-346
Date Received: February 4, 1997
Date Analyzed: February (4-6), 1997

ANALYSIS DESCRIPTION

Methane, carbon monoxide, and total gaseous non-methane organics (TGNMO) were measured by flame ionization detection/total combustion analysis (FID/TCA).
Percent level carbon dioxide, methane, nitrogen and oxygen were measured by thermal conductivity detection/gas chromatography (TCD/GC)

AtmAA Lab No.	Sample ID	CO	CH_4	CO_2	TGNMO	O_2	N_2	P_1	P_2
		(Concentration in ppmv)				(%,v)	(%,v)		
90357-8	ISS#1	---	2.64	---	2.02	---	---	753	784
90357-9	ISS#2	---	3.39	---	2.72	---	---	750	782
90357-10	TSI	5.78	458000	381000	2230	0.52	14.0	757	797
90357-11	PPS#1	---	7.11	---	3.12	---	---	755	790

TGNMO is total gaseous non-methane organics measured and reported as ppm methane. The reported oxygen concentration includes any argon present in the sample, calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.

Accuracy of the TCD/GC analysis for permanent gases is (+/-) 2%, actual analysis results are reported

P_1 - Initial Pressure, mm Hg
P_2 - Final Pressure, mm Hg

Michael L. Porter
Laborsatory Director

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QUALITY ASSURANCE SUMMARY
(Repeat Analysis)

Client Project No.: 97-01-346
Date Received: February 4, 1997
Date Analyzed: February (4-6), 1997

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
CO	TSI	5.87	5.69	5.78	4.6
CH_4	ISS#1	2.65	2.64	2.64	0.19
	TSI	457000	460000	458000	0.33
CO_2	TSI	381000	381000	381000	0.0
TGNMO	ISS#1	1.81	2.22	2.02	10
	TSI	2090	2370	2230	6.3
		(Concentration in %,v)			
Oxygen	TSI	0.55	0.49	0.52	5.8
Nitrogen	TSI	14.2	13.7	14.0	1.8

A set of 4 SUMMA canister samples, laboratory numbers 90357-(8-11), was analyzed for CO, CH_4, CO_2, O_2, N_2 and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 8 repeat measurements from the sample set of 4 SUMMA canister samples is 3.6%.

Gas standards (containing CO, CH_4, CO_2 and propane) used for TCA analyses, were prepared and certified by Scott Specialty Gases.

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(346)

JOB NAME: PENROSE LANDFILL — PERIMETER PROBE SAMPLES, PLANT INLET SAMPLE

FILE (JOB#): J152-6

DATE: 1-30-97

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
J152 6	1-30 97	8:40 AM	C	1	ISS #1	✓	✓	✓						
J152 6	1-30 97	9:05 AM	C	1	ISS #2	✓	✓	✓						
J152 6	1-30 97	9:40 AM	G	1	TSI	✓	✓						✓	
J152 6	1-30 97	10:10 AM	G	1	PPS #1	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS CO.	1-30-97	12:35
RECEIVED BY:	[illegible]	CONSCIENCE	1-30-97	12:35
RELINQUISHED BY:	[illegible]	CONSCIENCE	1-30-97	13:15
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	Calscience	1/30/97	13:15

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CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

Deliver to Atm AA

CHAIN OF CUSTODY RECORD

Date 2/3/97

Page 1 of 3

LABORATORY CLIENT:	CLIENT PROJECT NAME / NUMBER: 97-01-346
ADDRESS:	PROJECT CONTACT: Jody McInerney
CITY / STATE / ZIP	SAMPLER(S): (SIGNATURE)
TEL: / FAX:	

TURNAROUND TIME[1]

☐ SAME DAY (≤ 6 HR)[2], 125% ☐ 24 HOURS, 100% ☐ 48 HOURS, 50% ☐ 72 HOURS, 25% ☐ 5 DAYS ☐ 10 DAYS ☐ RWQCB FORMAT, Surcharge applies

1. All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m., M - F. 2. Prior approval is required.

SPECIAL INSTRUCTIONS/REQUIREMENTS:
need results Friday 2/7/97
Generate separate report for each project

SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	WATER Comp.	WATER Grab	AIR Intg.	AIR Grab	SOLID/ SOIL/ FILTER	NO. OF Containers	ANALYSES REQUIRED
97-01-346-1	TSS #1	1/30/97				X			1	CH4 / TGNMO only, SCAQMD 25.1
2	TSS #2									only
3	TST									+ CO2, O2, N2
4	PPS #1									only

Relinquished by: (Signature) Jody McInerney	Received by: (Signature) [illegible]	Date: 2/3/97	Time: 1035
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:

Unless otherwise requested, all samples will be removed from analytical storage 30 days after receipt and disposed of 30 days thereafter.

DISTRIBUTION: White with report Yellow to File Pink to Client

06/21/96 Revision

Q4Q Graphic (714) 898-9702

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates		Date Sampled:	02/27/97
1810 East 25th Street		Date Received:	02/27/97
Los Angeles, CA 90058		Date Analyzed:	02/28/97
		Work Order No.:	97-02-362
Attn: Robert McAllister		Method:	SCAQMD 25.1
RE: J152-6		Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: ISS #3		
Methane	5	1
TGNMO	3	1
Sample Number: ISS #4		
Methane	2	1
TGNMO	4	1
Sample Number: PPS #2		
Methane	2120	1
TGNMO	4	1
Sample Number: TSI		
Oxygen plus Argon, % by volume	1.5	0.1
Nitrogen, % by volume	19.4	0.1
Methane, % by volume	45.3	0.1
Carbon Monoxide, % by volume	ND	0.1
Carbon Dioxide, % by volume	33.8	0.1
TGNMO	1120	1

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	02/27/97 02/27/97 02/28/97
Attn: Robert Mc Allister RE: J152-6	Work Order No.: Method: Page 2 of 2	97-02-362 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Oxygen plus Argon, % by volume	ND	0.1
Nitrogen, % by volume	ND	0.1
Methane, % by volume	ND	0.1
Carbon Monoxide, % by volume	ND	0.1
Carbon Dioxide, % by volume	ND	0.1
TGNMO	ND	1

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: TSI (Duplicate)				
Oxygen plus Argon, % by volume	1.5	1.3	14	0 - 25
Nitrogen, % by volume	19.4	18.5	5	0 - 25
Methane, % by volume	45.3	45.4	0	0 - 25
Carbon Monoxide, % by volume	ND	ND	NA	0 - 25
Carbon Dioxide, % by volume	33.8	34.8	3	0 - 25
TGNMO	1120	1160	4	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	J152-6		
Work Order Number:	97-02-362		
QC Batch ID:	970227	Date Collected:	02/27/97
Matrix:	Air	Date Received:	02/27/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	02/27/97

Client Sample Number: **ISS # 3**
Lab Sample Number: 97-02-362-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	3.0	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.6	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	2.8	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	2.1	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	1.9	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	J152-6		
Work Order Number:	97-02-362		
QC Batch ID:	970227	Date Collected:	02/27/97
Matrix:	Air	Date Received:	02/27/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	02/27/97

Client Sample Number: **ISS # 4**
Lab Sample Number: 97-02-362-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	3.0	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	2.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	2.0	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	1.6	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	J152-6		
Work Order Number:	97-02-362		
QC Batch ID:	970227	Date Collected:	02/27/97
Matrix:	Air	Date Received:	02/27/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	02/27/97

Client Sample Number: **PPS # 2**
Lab Sample Number: 97-02-362-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	0.9	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	2.9	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.8	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	2.8	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	2.8	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	1.8	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	J152-6		
Work Order Number:	97-02-362		
QC Batch ID:	970227	Date Collected:	02/27/97
Matrix:	Air	Date Received:	02/27/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	02/27/97

Client Sample Number: **TSI**
Lab Sample Number: 97-02-362-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	840	100		ppb (v/v)
Acetonitrile	ND	200		ppb (v/v)
1,1-Dichloroethene	ND	100		ppb (v/v)
Methylene Chloride	2540	400		ppb (v/v)
1,1-Dichloroethane	2320	100		ppb (v/v)
Chloroform	ND	100		ppb (v/v)
1,2-Dichloroethane	130	100		ppb (v/v)
1,1,1-Trichloroethane	120	100		ppb (v/v)
Benzene	710	100		ppb (v/v)
Carbon Tetrachloride	ND	100		ppb (v/v)
Toluene	9310	100		ppb (v/v)
Trichloroethene	580	100		ppb (v/v)
Tetrachloroethene	920	100		ppb (v/v)
Chlorobenzene	160	100		ppb (v/v)
Xylenes (total)	3730	300		ppb (v/v)
Benzyl Chloride	ND	100		ppb (v/v)
1,3-Dichlorobenzene	ND	100		ppb (v/v)
1,4-Dichlorobenzene	ND	100		ppb (v/v)
1,2-Dichlorobenzene	ND	100		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	J152-6		
Work Order Number:	97-02-362		
QC Batch ID:	970227	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	02/27/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-220

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

LCS/LCSD Batch Number:	970227	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	02/27/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	93	95	60-140	2	0-30	
1,2-Dichloroethane	100	96	60-140	4	0-30	
Benzene	98	99	60-140	1	0-30	
Carbon Tetrachloride	100	95	60-140	5	0-30	
Trichloroethene	96	95	60-140	1	0-30	
Tetrachloroethene	99	95	60-140	4	0-30	
1,4-Dichlorobenzene	97	97	60-140	0	0-30	
1,2-Dichlorobenzene	98	96	60-140	2	0-30	

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GLOSSARY OF TERMS AND QUALIFIERS

ACCREDITED

Work Order Number: 97-02-362

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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GLOSSARY OF TERMS AND QUALIFIERS

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Work Order Number: 97-02-362

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES	J152-6	2/27/97

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4				FIXED GASS	[redacted]	REMARKS
J152-6	2/27/97	8:40 AM	C	1	ISS #3	✓	✓	✓						
J152-6	2/27/97	9:05 AM	C	1	ISS #4	✓	✓	✓						
J152-6	2/27/97	9:30 AM	G	1	PPS #2	✓	✓							
J152-6	2/27/97	9:55 AM	G	1	TSI	✓	✓					✓		

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS	2/27/97	12:45
RECEIVED BY:	Roy [illegible]	CONSCIENCE	2/27/97	12:45
RELINQUISHED BY:	Roy [illegible]	CONSCIENCE	2/27/97	15:10
RECEIVED BY:	M. Valenzuela	CEL	2/27/97	15:10
RELINQUISHED BY:				
RECEIVED BY:				

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Perimeter Probe Samples/J152-6		
Work Order Number:	97-03-432		
QC Batch ID:	970328	Date Collected:	03/27/97
Matrix:	Air	Date Received:	03/28/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	03/28/97

Client Sample Number: **TSI**
Lab Sample Number: 97-03-432-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	212	20		ppb (v/v)
Acetonitrile	ND	40		ppb (v/v)
1,1-Dichloroethene	ND	20		ppb (v/v)
Methylene Chloride	845	80		ppb (v/v)
1,1-Dichloroethane	63	20		ppb (v/v)
Chloroform	ND	20		ppb (v/v)
1,2-Dichloroethane	ND	20		ppb (v/v)
1,1,1-Trichloroethane	ND	20		ppb (v/v)
Benzene	649	20		ppb (v/v)
Carbon Tetrachloride	ND	20		ppb (v/v)
Toluene	2320	20		ppb (v/v)
Trichloroethene	110	20		ppb (v/v)
Tetrachloroethene	62	20		ppb (v/v)
Chlorobenzene	224	20		ppb (v/v)
Xylenes (total)	1960	60		ppb (v/v)
Benzyl Chloride	192	20		ppb (v/v)
1,3-Dichlorobenzene	ND	20		ppb (v/v)
1,4-Dichlorobenzene	29	20		ppb (v/v)
1,2-Dichlorobenzene	ND	20		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Perimeter Probe Samples/J152-6		
Work Order Number:	97-03-432		
QC Batch ID:	970328	Date Collected:	03/27/97
Matrix:	Air	Date Received:	03/28/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	03/28/97

Client Sample Number: **ISS #5**
Lab Sample Number: 97-03-432-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	4.8	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.8	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	9.4	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	1.2	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	2.3	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	2.7	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Perimeter Probe Samples/J152-6		
Work Order Number:	97-03-432		
QC Batch ID:	970328	Date Collected:	03/27/97
Matrix:	Air	Date Received:	03/28/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	03/28/97

Client Sample Number: **ISS #6**
Lab Sample Number: 97-03-432-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	5.4	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	0.8	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	6.3	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	3.1	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	2.9	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Perimeter Probe Samples/J152-6		
Work Order Number:	97-03-432		
QC Batch ID:	970328	Date Collected:	03/27/97
Matrix:	Air	Date Received:	03/28/97
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	03/28/97

Client Sample Number: **PPS**
Lab Sample Number: 97-03-432-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	20.2	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	4.7	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	7.6	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	5.8	0.5		ppb (v/v)
Trichloroethene	1.3	0.5		ppb (v/v)
Tetrachloroethene	2.5	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	Perimeter Probe Samples/J152-6		
Work Order Number:	97-03-432		
QC Batch ID:	970328	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	03/28/97

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-238

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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LCS/LCSD Batch Number:	970328	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	03/28/97

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	94	91	60-140	3	0-30	
1,2-Dichloroethane	92	82	60-140	11	0-30	
Benzene	91	92	60-140	1	0-30	
Carbon Tetrachloride	86	80	60-140	7	0-30	
Trichloroethene	91	90	60-140	1	0-30	
Tetrachloroethene	92	92	60-140	0	0-30	
1,4-Dichlorobenzene	93	86	60-140	7	0-30	
1,2-Dichlorobenzene	94	87	60-140	7	0-30	

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GLOSSARY OF TERMS AND QUALIFIERS

ACCREDITED

Work Order Number: 97-03-432

Qualifier	Definition
ND	Not detected at indicated reporting limit.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 03/27/97
Date Received: 03/28/97
Date Analyzed: 03/28/97

Work Order No.: 97-03-432
Method: SCAQMD 25.1
Page 1 of 2

Attn: Robert McAllister
RE: Perimeter Probe Samples/J152-6

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless noted otherwise.

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Oxygen plus Argon, % v/v	1.6	0.1
Nitrogen, % v/v	16.0	0.1
Methane , % v/v	41.7	0.1
Carbon Monoxide, % v/v	ND	0.1
Carbon Dioxide, % v/v	43.2	0.1
TGNMO	446	1

Sample Number: ISS #5

Analyte	Concentration	Reportable Limit
Methane	2	1
TGNMO	3	1

Sample Number: ISS #6

Analyte	Concentration	Reportable Limit
Methane	2	1
TGNMO	4	1

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 03/27/97
Date Received: 03/28/97
Date Analyzed: 03/28/97

Work Order No.: 97-03-432
Method: SCAQMD 25.1
Page 2 of 2

Attn: Robert McAllister
RE: Perimeter Probe Samples/J152-6

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: PPS

Analyte	Concentration	Reportable Limit
Methane, % v/v	2.5	0.1
TGNMO	5	1

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Oxygen plus Argon, % v/v	ND	0.1
Nitrogen, % v/v	ND	0.1
Methane , % v/v	ND	0.1
Carbon Monoxide, % v/v	ND	0.1
Carbon Dioxide, % v/v	ND	0.1
Methane	ND	1
TGNMO	ND	1

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	03/27/97
1810 East 25th Street	Date Received:	03/28/97
Los Angeles, CA 90058	Date Analyzed:	03/28/97
	Work Order No.:	97-03-432
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Perimeter Probe Samples/J152-6	Page 1 of 1	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in % (v/v).

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen plus Argon	1.6	1.7	7	0 - 25
Nitrogen	16.0	16.6	4	0 - 25
Methane	41.7	41.4	1	0 - 25
Carbon Monoxide	ND	ND	N/A	0 - 25
Carbon Dioxide	43.2	42.9	1	0 - 25
TGNMO	446	429	4	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

001583

(432)

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	3/27/97

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
J152-6	3/27/97	10:30 AM	G	1	TSI	✓	✓						✓	
J152-6	3/27/97	10:45 AM	C	1	ISS #5	✓	✓	✓						
J152-6	3/27/97	11:05 AM	C	1	ISS #6	✓	✓	✓						
J152-6	3/27/97	11:30 AM	G	1	PPS II	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS	3/27/97	12:30 PM
RECEIVED BY:	[illegible]	LA BY PRODUCTS	3/27/97	12:30 PM
RELINQUISHED BY:	[illegible]	LA BY PRODUCTS	3/28/97	9:31 AM
RECEIVED BY:	[illegible]	CALSCIENCE	3/28/97	9:31 AM
RELINQUISHED BY:	[illegible]	CALSCIENCE	3/28/97	1210
RECEIVED BY:	[illegible]	Calscience	3/28/97	1210

001584

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RECEIVED

JAN 29 1997

SEPICH ASSOCIATES, Inc.
and METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL (818) 707-3036
(805) 373-9321
FAX (818) 707-3012
(805) 373-8987

January 27, 1997

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Fourth Quarter, 1996
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the thirteenth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October through December 1996. In compliance with the SCAQMD Rule 1150. permit, this quarterly report contains source test information required on an annual bases (see Section A.5 of this report).

Monitoring and sampling for this report was performed on October 8 and 14, November 4, 8, 20, and 26, and December 6, 9, 16, and 18, 1996.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet (referred to as TSI for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements. Rule 1150.1 also requires simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, October through December 1996, field monitoring was conducted on October 8 and 14, November 4, 8, 20, and 26, and December 6, 9, 16, and 18. Perimeter probe (PPS), integrated surface(ISS), and power plant inlet (TSI) samples were collected for laboratory analysis on November 4, November 22, and December 18, 1996. (see Exhibit C for field documentation).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on October 14, November 26, December 6, and December 16, 1996 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Attempts to monitor on October 29 and during the first week of November were aborted due to malfunction of the gas detector. Perimeter probes were sampled by Los Angeles By-Products personnel. October sampling was postponed until November 4, 1996 due to weather conditions.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 48 hours of sampling.

Perimeter probe sampling was conducted at Probe U (68-foot depth) on November 4, at Probe V (80-foot depth) on November 20, and at Probe U (68-foot depth) on December 18, 1996. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on November 4, November 20, and December 18, 1996, by focusing sampling efforts in zones where TOC surface sampling had not been conducted recently. During instantaneous surface monitoring, no areas had detectable TOC readings in October, November, or December. Attempts to sample on October 24 and 29, 1996 were aborted due to excessive wind velocity and rain. On November 4, Areas 52 and 53 were sampled (see Integrated Surface Sampling Map in Exhibit A), on November 20, Areas 54 and 55 were sampled, and on December 18, Areas W and 56 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. The ISS field monitoring results for the Fourth Quarter TOC and H_2S concentrations were all non-detect.

B.3 Instantaneous Surface Monitoring (ISM)

Instantaneous surface monitoring Path B was traversed on October 8, and Path A was traversed on November 8, and December 9, 1996. In October, November, and December no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Pacific Energy (PE) electrical generation plant inlet pipeline on November 4, November 20, and December 18, 1996. TOC was monitored with a GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were collected on September 5, 1996 and results of inlet analyses were reported in the third quarter 1996 report. LA By-Products Company sampled from an inlet containing Penrose gas only. Exhaust samples were collected from three of the engines (#1, #2, and #5) at the power plant by Horizon Air Measurement Services, Inc., for the SCAQMD. The exhaust samples are from the mixture of landfill gas from Penrose, Sheldon, and Bradley landfills, that is being burned at the plant.

B.6 Reporting Requirements

This is the thirteenth in a series of quarterly reports and the fourth quarterly report for Penrose Landfill for 1996. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Positive Lab Service. Their early (to mid-) month data was used to select the monthly probe sampling stations and their (mid to) late-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibits D and E.

C.1 Perimeter Probe Monitoring and Laboratory Results

October 14, 1996 perimeter probe monitoring results indicated non-detect (ND) readings of TOC from all probes. Probe U (at 68-foot depth) was sampled on November 4, 1996.

Table I - October 1996
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBE SAMPLED ON
November 4, 1996

Probe Number	Depth (feet)	Field Value 10/14/96 (% Vol)	Field Value 11/4/96 (% Vol)	Lab Results 11/4/96 (% Vol)	Follow-up Field Value 11/26/96 (% Vol)
U	68	ND	0.2	0.4	ND

Note: Laboratory samples were collected 11/4/96. Field values are volume percent TOC.

ND None detected.

Perimeter probe monitoring during the first half of November was aborted due to mechanical difficulties with the gas detector. Probe V (80-foot depth) was sampled on November 20, 1996. Analytical results from the November 20, 1996 sample recorded 8 parts per million (ppm) methane.

Table II - November 1996
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
November 20, 1996

Probe Number	Depth (feet)	Field Value 11/1-19/96 (% Vol)	Field Value 11/20/96 (% Vol)	Lab Result 11/20/96 (% Vol)	Follow-up Field Value 11/26/96 (% Vol)
V	80	NA	ND	0.0008	ND

Note: Laboratory samples were collected 11/20/96. Laboratory results are volume percent of methane. Field values are volume percent TOC.

December 6, 1996 perimeter probe monitoring results indicated non-detect TOC from all probes. On December 18, 1996, Probe U at 68-feet was sampled. Analytical results for methane was not available.

Table III - December 1996
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
December 18, 1996

Probe Number	Depth (feet)	Field Value 12/16/96 (% Vol)	Field Value 12/18/96 (% Vol)	Lab Result 12/18/96 (% Vol)	Follow-up Field Value (% Vol)
U	68	ND	ND	NA	NA

Note: Laboratory samples were collected 12/18/96. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NA Not available.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FOURTH QUARTER 1996
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
11/4/96 AREA # 52	6	6
11/4/96 AREA # 53	6	6
11/20/96 AREA # 54	9	4
11/20/96 AREA # 55	9	4
12/18/96 AREA W	3	14
12/18/96 AREA # 56	2	11

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Fourth Quarter of 1996.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 43.6% methane on November 4, 42.5% methane on November 20, and 45.8% methane on December 18, 1996. Dreager tube analytical results were 90 ppm H_2S on November 4, 130 ppm H_2S on November 20, and 110 ppm H_2S on December 18, 1996. Analytical results for fixed gases, NMHC (TGNMO), and core group toxic air contaminants are included in Exhibits D and E.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling was conducted on September 5, 1996. The analytical results from the samples collected at the plant inlet and exhaust samples collected from engines #1, #2, and #5, are included in Exhibit E. The analytical results from the exhaust samples collected for source testing were not available for the Third Quarter report, and are therefore reported in this Fourth Quarter report.

C.6 Report Requirements

This report constitutes the 1996, Fourth Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

Major compliance endeavors enacted by Los Angeles By-Products Company and Pacific Energy in the past several years include:

- Mitigation well program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter, 1995 (including revised and improved gas collection system, see Gas Collection System map in Exhibit A); (note that Gas Collection System map has a revised well numbering system) and
- Replacement probe installation in Fourth Quarter, 1995.

The high TOC found by the LEA in September 1996, was followed by adjustments in the gas extraction system designed to alleviate the accumulation of methane at the perimeter probes. Subsequent monitoring has recorded ND readings at Probes P, R, and U where readings had been high.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
JUN. 30 90
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.613/atf

Public Facilities Branch / SCAQMD January 27, 1997

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Ms. Tania Weaver

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location, Integrated Surface Sampling, Traverse, and Gas Collection System Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Fourth Quarter, 1996
- EXHIBIT D: Laboratory Analytical Results - Fourth Quarter, 1996
- EXHIBIT E: Laboratory Analytical Results - Source Test Results, 1996 (Inlet and Exhaust samples collected September 5, 1996)

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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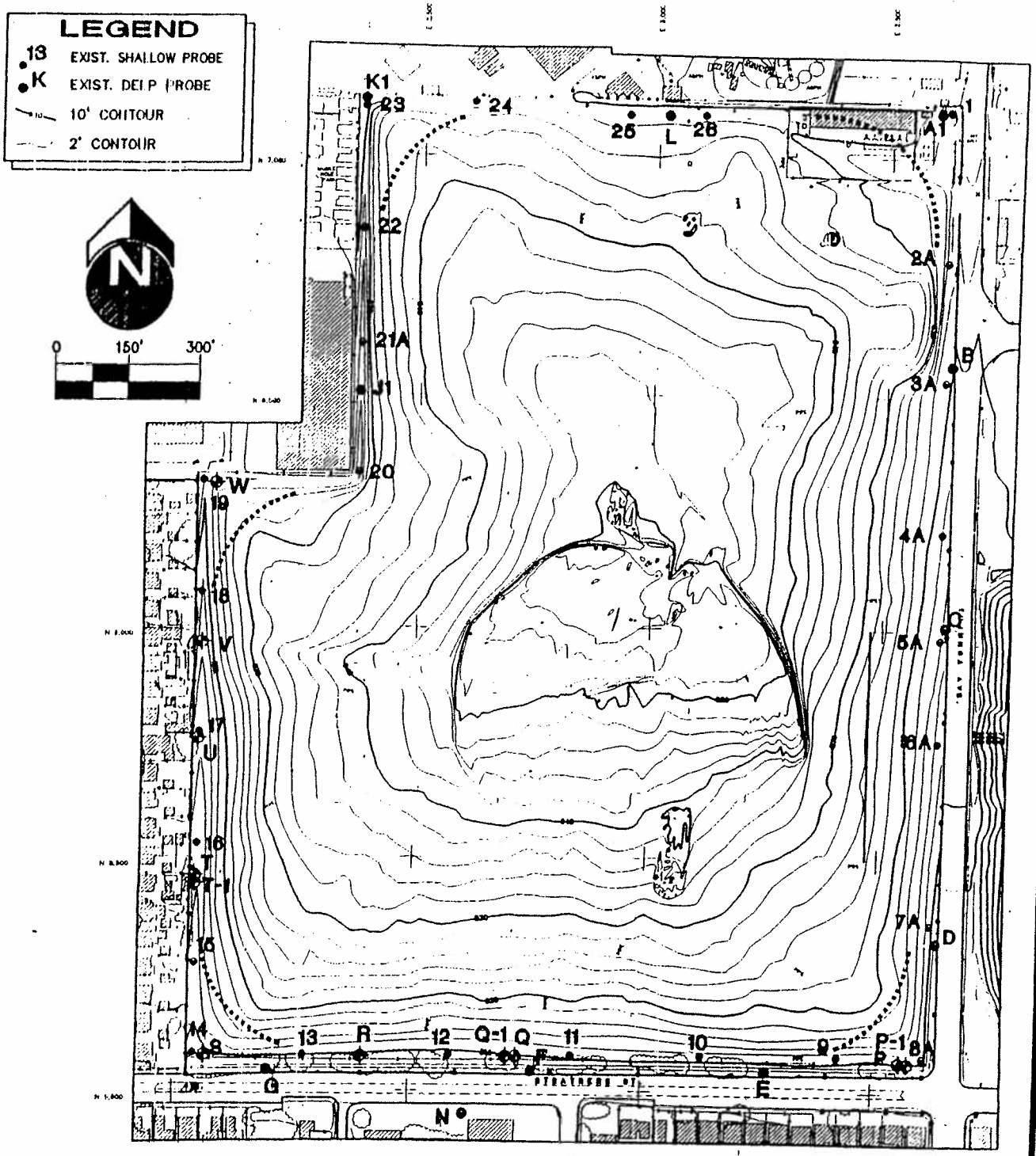
PENROSE LANDFILL MONITORING PROBE LOCATIONS



SEPICH ASSOCIATES, Inc.
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Incorporated 1925
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Tel: (213) 233-4175 Fax: (213) 233-4170

1-22-96 PMAP-LOG

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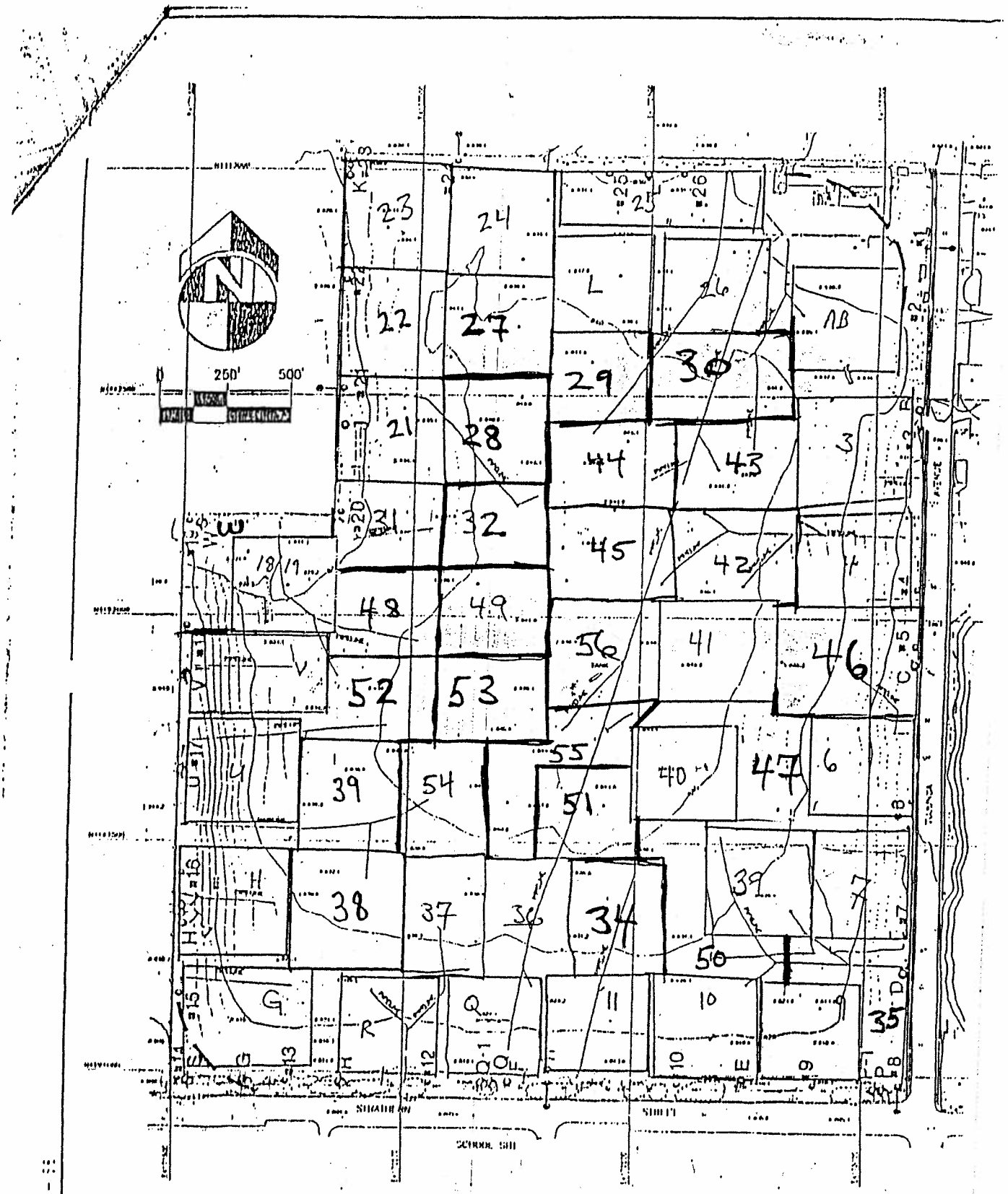

SEPICH ASSOCIATES
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FAX (818) 707-3012 (805) 373-8007

PENROSE LANDFILL

INTEGRATED SURFACE SAMP

SAMPLING DATE _____ SAMPLER _____ SHEET ____

001597

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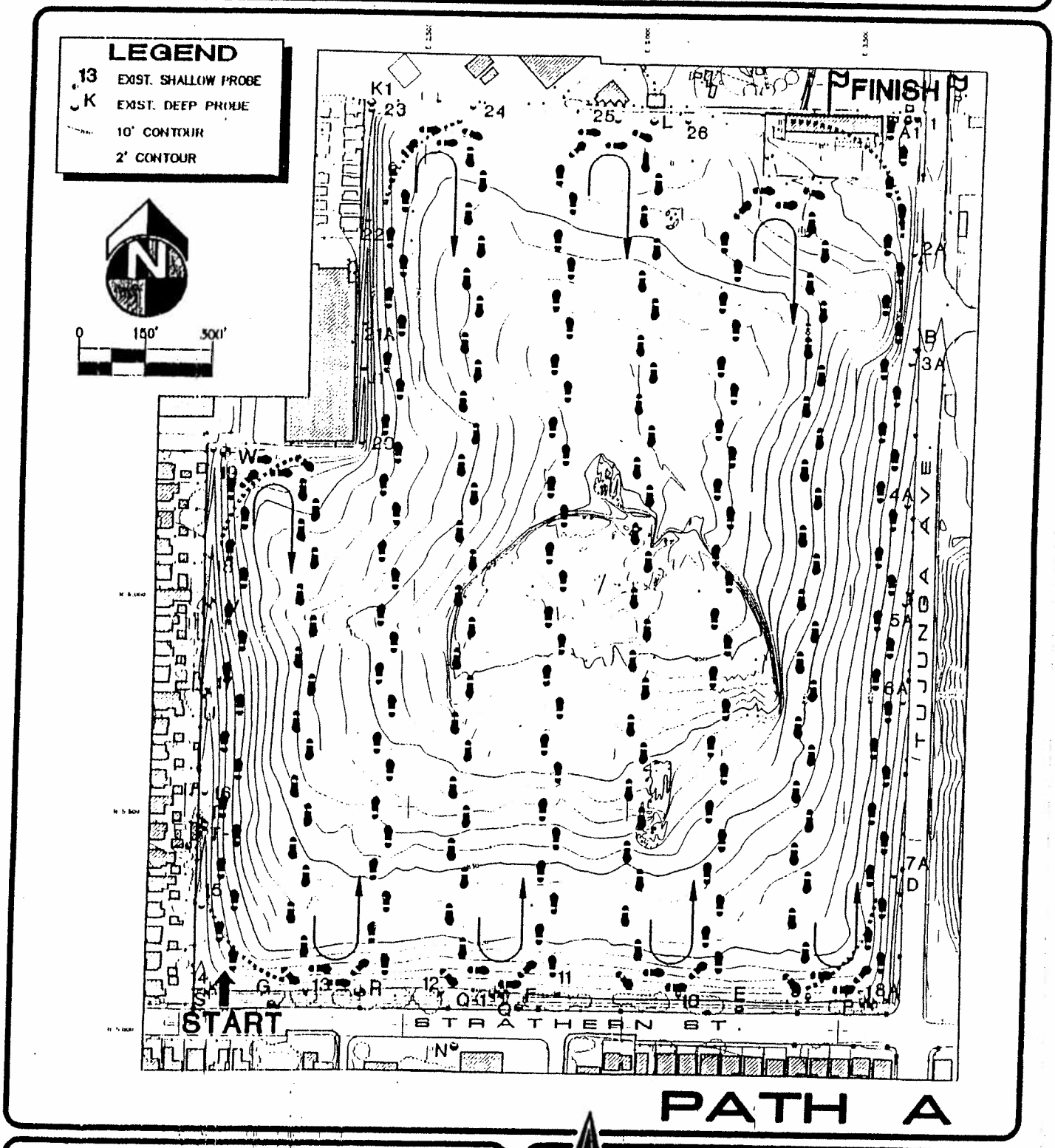
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

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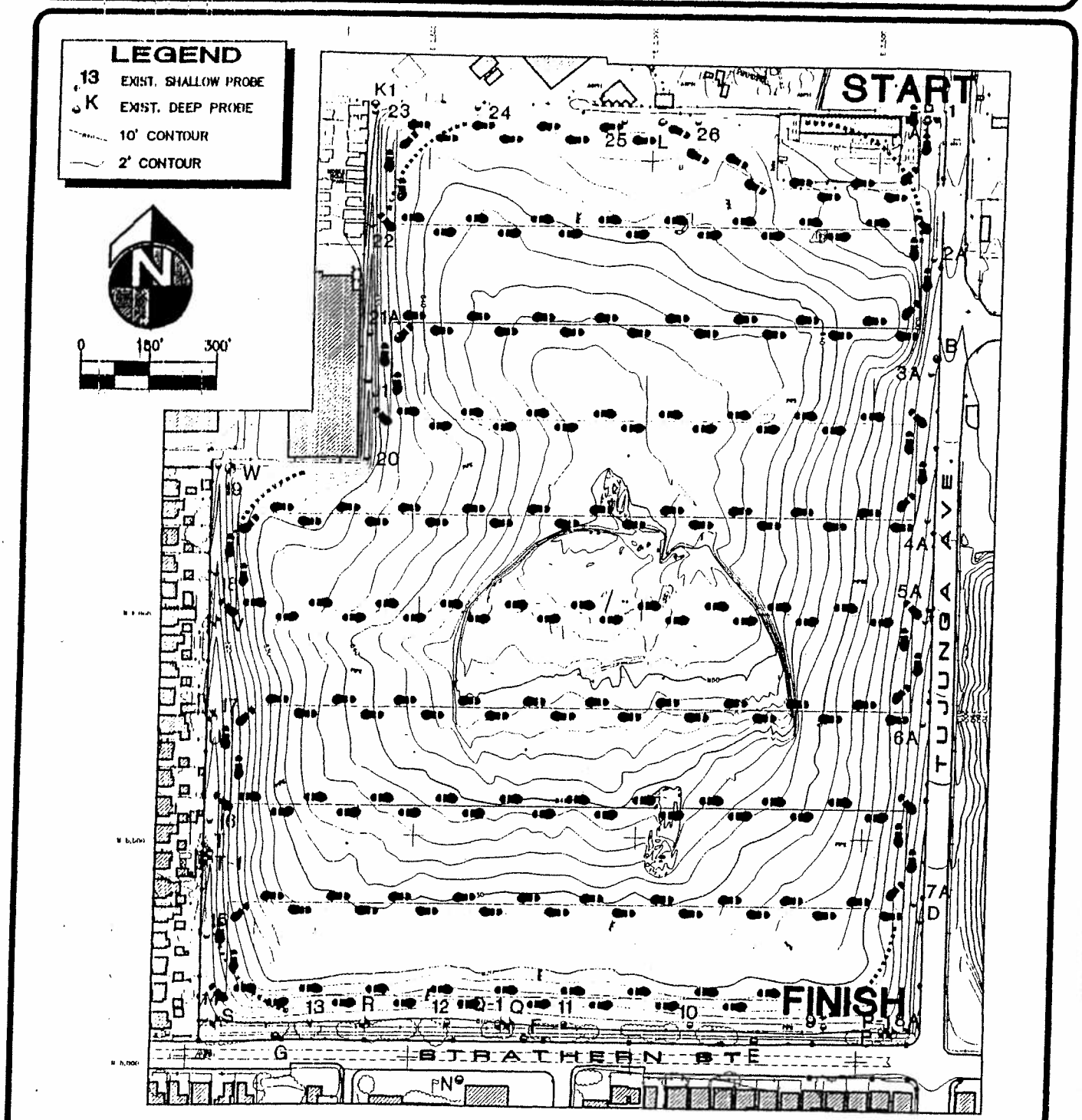
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH B

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GAS CONTROL
SPECIALISTS

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SHEET OF

001599

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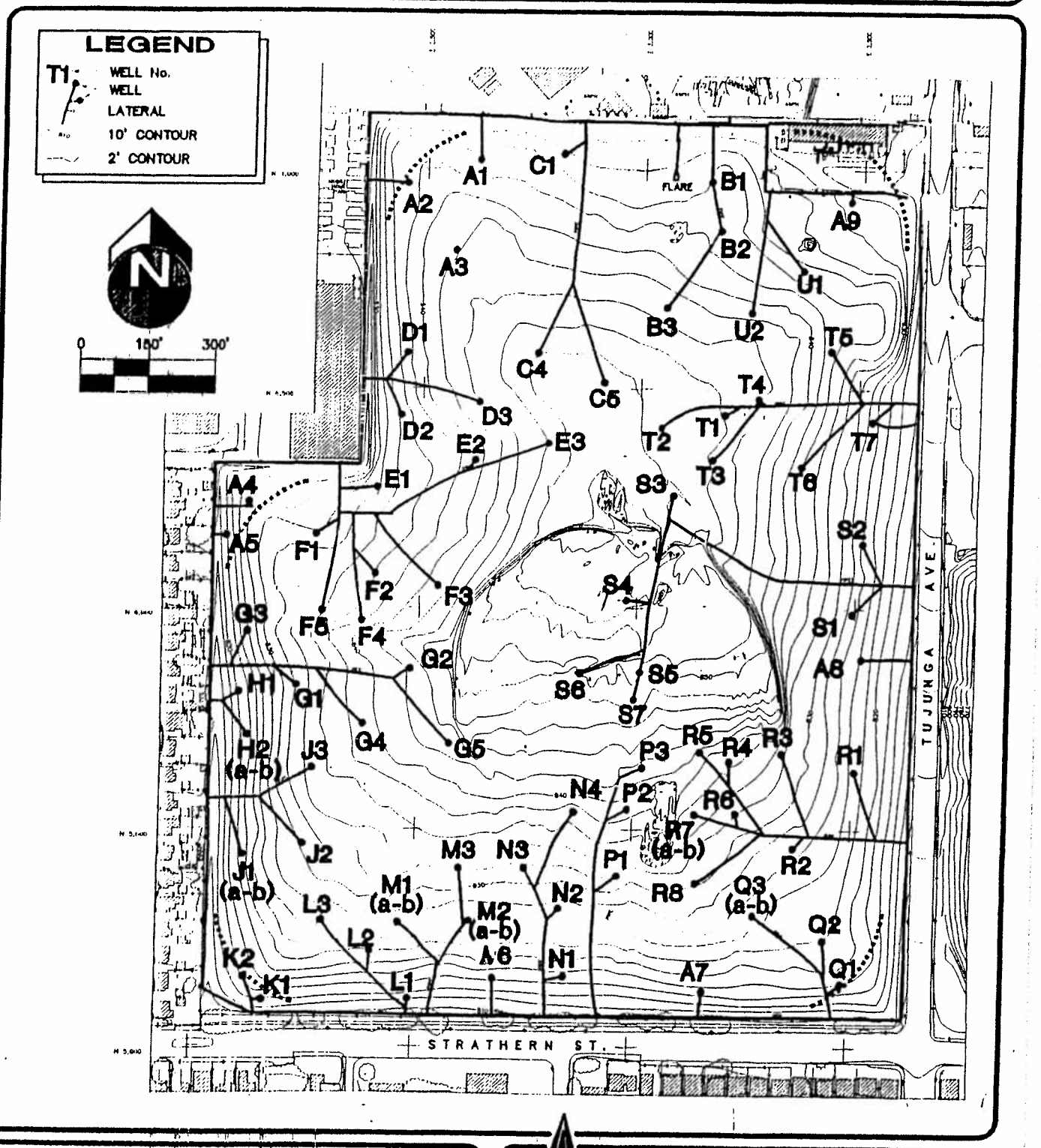
PENROSE LANDFILL
GAS COLLECTION SYSTEM



10-15-96 WELL-SYS

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SHEET ___ OF ___

EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Fourth Quarter, 1996

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 10/8/96

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain; <32° F, 33°-55°, 56°-70°, 71°-86°, 87°-100°, >100° F; still, breeze, wind; dry, moderate, humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Clear blue skies, Hot weather and no wind. What little breeze was detectable by electronic wind speed indicator seemed to come from the SOUTH at a velocity of .5 to .9 mph. Temperature was quite warm high 80's. Instrument used monitor was the FOXBORO 128 last calibrated by Robert McAllister on 10/7/96 at 3:15 pm. Contractor followed Path 'B'. There were No Detections found on Monitor resulting in a N.D.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JS-0075 4/15/94

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

RECEIVED
OCT 29 1996
LA BY-PROD CO

October 24, 1996

FILE NO: 72986

LAB NO: 6288140000

SAMPLE: On 10/14/96 at 09:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

October 24, 1996

FILE NO: 72986

LAB NO: 6288140000

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6
DATE 10/24/96

INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still	dry
clear	overcast	33°-55°	86°-100°	breeze	moderate
fog	rain	56°-70°	>100° F	wind	humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TST

CONTRACTOR(S): ROBERT McAllister

REMARKS: Clear Skies & bright sunshine made for a beautiful CRISP morning. Unfortunately tests were cancelled due to wind velocity. The electronic wind speed indicator reported a North/East wind at 12 to 18 mph.

☒ REINSPECTION REQUIRED

Robert mcallister
INSPECTOR

PRINCIPAL

IS-0075 3/15/94

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J-152-6

DATE 10/29/96

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, ~~moderate~~, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Cool temperatures with great visibility of the local mountains. No Clouds, last precipitation was over one month ago. However tests were cancelled due to WIND VELOCITY. A North wind (Santa Ana WINDS) was recorded up to twenty-two mph.

☒ REINSPECTION REQUIRED

Robert mcallister
INSPECTOR

PRINCIPAL

ISA0075 4/15/94

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
File #70237
633 West 5th Street
Los Angeles, CA 90071-2006

11/06/96

Attn: Vicki Castle
213/895/5687

Penrose Landfill

Sample #: 6305151900
Received: 10/31/96
Type: Air

Collector: J. Barie
Sampling Date & Time: 10/29/96, ****
Method: Monitored By Positive Lab Rep.

I.D.: Monitoring of Probes

=========CONSTITUENT=========	====METHOD=====	==RESULT==	===UNIT===
Methane Determination		NA**	

Respectfully Submitted,

Azmat Imam, Organic Supervisor

**Unable to complete monitoring due to mechanical failure of meter

[ND = None Detected; MDL = Method Detection Limit]

63081519

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/4/96

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 71-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE LANDFILL

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Clear Skies, blue sky, crystal Clear. Last recorded rainfall was over one week ago. The electronic wind speed indicator reported ND. The ova meter used in tests was the FoxBORO 128 last calibrated by Robert McAllister on 11/4/96 at 7:30 AM. The TOC meter used in the tests was a Natural Gas Indicator model npl-204 last calibrated by J. G Tucker and Son on 2-13-96. H_2S tests were done with a Dräger pump and Dräger tubes. The ISS samples were collected with a portable self-contained unit with its own power

☐ REINSPECTION REQUIRED

Robert mc allister
INSPECTOR

PRINCIPAL

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WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/4/96

REMARKS CONTINUED: power supply, which collected samples at 400 cc/min. All air samples were collected in 10-liter Tedlar Bags and placed in a Black trash bag for protection from Sunlight.

ISS #52 was collected at 8:43 AM and tested with the OVA (ND) and for H_2S (ND). ISS #53 was collected at 9:15 AM and tested with OVA (ND) and for H_2S (ND). The PPS U 68' was collected at 9:38 AM and tested with TOC meter (.2%) and for H_2S (ND). The TSI was collected at 10:05 AM and tested with the TOC meter (45%) and H_2S (90 ppm).

Robert McAllister
INSPECTOR

PRINCIPAL

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 11-4-96

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	R.M.
TIME	
INSTRUMENT	
PARAMETER	

REMARKS

ISS 52 8:43 Am
ISS 53 9:15 Am
PPS 4 68 9:38 Am
TSI 10:05 Am

PROBE #		
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
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21 A		
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23		
24		
25		
26		

PROBE #						TOC	H_2S
A-1				R	10'		
B					40'		
C	GREEN-21'				80'		
	YELLOW-41'				120'		
	ORANGE-61'			S	10'		
	RED - 81'				40'		
D					80'		
E					120'		
F				T	10'		
G					40'		
J-1					73'		
K-1				T-1	72'		
L	GREEN-45'			U	10'		
	YELLOW-65'				37'		
	ORANGE-85'				68'	.2%	ND
	RED - 105'			V	10'		
N	GREEN-22'				40'		
	YELLOW-45'				73'		
	ORANGE-68'			W	10'		
	RED - 90'				40'		
P	10'				80'		
	40'				120'		
	80'				158'		
P-1	120'						
Q	10'			TSI		45%	90ppm
	40'						
	75'					OVA	H_2S
Q-1	120'				ISS 52	ND	ND
	158'				ISS 53	ND	ND

001611

CONFIDENTIAL

JOB NAME: PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES

FILE (JOB#): J152-6

DATE: 11-4-96

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4			FIXED GAS		TOC	REMARKS
J152-6	11-4-96	8:43 AM	C	1	ISS 52	✓	✓	✓						
J152-6	11-4-96	9:12 AM	C	1	ISS 53	✓	✓	✓						
J152-6	11-4-96	9:38 AM	G	1	PPS 4 68'	✓	✓							
J152-6	11-4-96	10:05 AM	G	1	TSI	✓	✓				✓			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LA-DY Products Co.	11-4-96	13:10
RECEIVED BY:	[illegible]	CALSCIENCE	11-4-96	13:10
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/8/96

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, ~~overcast~~, rain | <32° F, 33°-55°, 56°-70°, ~~71-85~~, 86°-100°, >100° F | ~~still~~, breeze, wind | dry, ~~moderate~~, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: High cloud cover. Last rain was over 5 days ago. OVA instrument used in monitor was the FOXBORO 128 last calibrated on 11/8/96 at 7:40 AM by Robert McAllister. The electronic wind speed indicator reported ND. The monitor began at 9:17 AM and ended at 11:44 AM, with a result of ND. Contractor followed PATH 'A'.

☐ REINSPECTION REQUIRED

Robert mcallister
INSPECTOR

PRINCIPAL

001613 SHEET __ OF __

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
File #72986
1810 East 25th Street
Los Angeles, CA 90058

01/17/97

Attn: Robert McAllister
213/233/4175

Penrose Landfill

Sample #: 7000000000
Received: 11/00/96
Type: Air

Collector: J. Barie
Sampling Date & Time: 11/00/96, ****
Method: Monitored By Positive Lab Rep.

I.D.: Monitoring of Probes

CONSTITUENT	METHOD	RESULT	UNIT	MDL
Methane Determination		NA**		

Respectfully Submitted,

Azmat Iman, Organic Supervisor

**Unable to complete monitoring due to meter still being serviced per 10/29/96 failed sampling attempt.

[ND = None Detected; MDL = Method Detection Limit]

63081819

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/20/96

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 5[illegible]0°, 71°-85°, 86°-100°, >100° F | calm, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: It was cold, with thick clouds, not much visibility. The electronic wind speed indicator detected a ND. Last recorded precipitation was over one week ago.

The H_2S tests were done with a Dräger pump and Dräger tubes. The TOC meter used in tests was a Natural Gas Indicator model npl-204 last calibrated by J.G. Tucker and Son on 2-13-96. The OVA instrument used in tests was the FOXBORO 128 last calibrated by Robert McAllister on 11/20/96 at 7:21 AM. The ISS samples were collected with a portable self-contained unit

☐ REINSPECTION REQUIRED

Robert mcallist
INSPECTOR

PRINCIPAL

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/20/96

REMARKS CONTINUED: with its own power supply, which collected samples at 400 cc/min. All air samples were collected in 10-liter Tedlar bags and placed in a Black Trash bag for protection from Sunlight.

The ISS 54 was collected at 9:53 am and tested with OVA (ND) and H_2S (ND). The ISS 55 was collected at 10:30 am and tested with OVA (ND) and H_2S (ND). The PPS V-80' was collected at 11:00 AM and tested with TOC meter (ND) and H_2S (ND). The TS1 sample was collected at 11:44 AM and tested with TOC meter (43%) and H_2S (130ppm).

Robert McAllister
INSPECTOR

PRINCIPAL

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 1-20-96

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS: RM

TIME

INSTRUMENT

PARAMETER

REMARKS: Cloudy - Cool - No WIND.

ISS 54 - 9:53 AM

ISS 55 - 10:30 AM

PPS V-80' - 11:00 AM

TSI - 11:44 AM -

PROBE #		
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		

PROBE #						TOC	H_2S
A-1				R	10'		
B					40'		
C	GREEN-21'				80'		
	YELLOW-41'				120'		
	ORANGE-61'			S	10'		
	RED - 81'				40'		
D					80'		
E					120'		
F				T	10'		
G					40'		
J-1					73'		
K-1				T-1	72'		
L	GREEN-45'			U	10'		
	YELLOW-65'				37'		
	ORANGE-85'				68'		
	RED - 105'			V	10'		
N	GREEN-22'				40'		
	YELLOW-45'				~~73'~~ 80'	ND	ND
	ORANGE-68'			W	10'		
	RED - 90'				40'		
P	10'				80'		
	40'				120'		
	80'				158'		
P-1	120'						
Q	10'			TSI		43%	130ppm
	40'						
	75'					OVA	H_2S
Q-1	120'				ISS 54	ND	ND
	158'				ISS 55	ND	ND

HANE SPECIALISTS 3017 E. THOUSAND OAKS BLVD. #300 W AKE VILLAGE, CA. 91362 TEL (818)707-3036 FAX (818)707-3

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
633 West 5th Street
Los Angeles, CA 90071-2006

December 5, 1996

FILE NO: 70237

LAB NO: 6332140800

SAMPLE: On 11/26/96 at 15:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

December 5, 1996

FILE NO: 70237

LAB NO: 6332140800

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

Dec.
November 11, 1996

RECEIVED
DEC 12 1996
L.A. BY-PROD. CO.

FILE NO: 72986

LAB NO: 6344113600

SAMPLE: On 12/06/96 at 13:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

Doc
November 11, 1996

FILE NO: 72986

LAB NO: 6344113600

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Ql	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 12/9/96

INSPECTION REPORT

CLIMATE: bright, clear, ~~cloudy~~, ~~overcast~~, ~~fog~~, rain | <32° F, 33°-55°, 56°-70°, ~~70°-85°~~, 86°-100°, >100° F | ~~still~~, ~~breeze~~, wind | dry, ~~moderate~~, humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): ROBERT McAllister

REMARKS: MISTY weather, thick clouds. Electronic wind speed indicator tested wind velocity at 1-2.8 mph from the South. OVA instrument used was the Foxboro 128 last calibrated on 12/9/96 by BoB McAllister at 7:30 Am. Contractor followed path 'A' Monitor began at 9:30 Am and ended at 11:14 Am with a result of ND.

☐ REINSPECTION REQUIRED

Robert mcallister
INSPECTOR

PRINCIPAL

001622 SHEET__OF__

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
633 West 5th Street
Los Angeles, CA 90071-2006

December 19, 1996

RECEIVED
DEC 30 1996
L.A. BY-PROD. CO.

FILE NO: 70237

LAB NO: 6352104200

SAMPLE: On 12/16/96 at 13:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
633 West 5th Street
Los Angeles, CA 90071-2006

December 19, 1996

FILE NO: 70237

LAB NO: 6352104200

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 12/18/96

INSPECTION REPORT

CLIMATE: (bright) clear fog cloudy overcast rain | <32° F 33°-55° 56°-70° 71°-85° 86°-100° >100° F | (still) breeze wind | dry (moderate) humid

LOCATION: PENROSE

PURPOSE:

CONTRACTOR(S): Robert McAllister

REMARKS: Bright clear Blue Skies. The electronic wind speed indicator tested ND for wind. Last rain was over one week ago.

The TOC meter used in tests was a Natural Gas Indicator last calibrated by J.G. Tucker and Son on 2-13-96. The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 12-18-96 at 7:30 Am. The H_2S tests were done with a Dräger pump and Dräger tubes. The ISS samples were collected with a portable self-contained

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J752-6

DATE 12/18/96

REMARKS CONTINUED: unit with its own internal power supply which collected samples at 400 cc/min. All samples were collected in 10-liter Tedlar bags and placed in a Black trash bag for protection from Sunlight.

The TSZ sample was collected at 8:25 AM and tested for TOC (41%) and H_2S (110 ppm). The ISS W sample was collected at 8:56 AM and tested with OVA (ND) and H_2S (ND). The ISS #56 was collected at 9:22 am and tested with OVA (ND) and H_2S (ND). The PPS @ 68' was collected at 10:00 am and tested for H_2S (ND) and TOC (ND).

Robert m allen
INSPECTOR

PRINCIPAL

IS20075 4/15/04

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 12/18/96

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	
TIME	
INSTRUMENT	
PARAMETER	

REMARKS: BRIGHT Clear Blue Skies No WIND.

PPS 4. 68' 10:00
ISS #56 9:22 AM
ISS W 8:56 AM
TSI 8:25 AM 41%

110 ppm

PROBE #		
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		

PROBE #						% TOC	ppm H_2S
A-1					10'		
B				R	40'		
C	GREEN-21'				80'		
	YELLOW-41'				120'		
	ORANGE-61'				10'		
	RED - 81'			S	40'		
D					80'		
E					120'		
F					10'		
G				T	40'		
J-1					73'		
K-1				T-1	72'		
L	GREEN-45'				10'		
	YELLOW-65'			U	37'		
	ORANGE-85'				68'	ND	ND
	RED - 105'				10'		
N	GREEN-22'			V	40'		
	YELLOW-45'				73'		
	ORANGE-68'				10'		
	RED - 90'				40'		
P	10'			W	80'		
	40'				120'		
	80'				158'		
P-1	120'						
Q	10'			TSI		A1	110
	40'						
	75'				ISS W	ND	ND
Q-1	120'				ISS#56	ND	ND
	158'						

HANE SPECIALISTS ... ARK VILLAGE, CA. 91362 TEL (818)707-3030 FAX (818)707-3

CONFIDENTIAL

EXHIBIT D

Laboratory Analytical Results - Fourth Quarter, 1996

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ACCREDITED

November 12, 1996

Robert McAllister
L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Subject: **Calscience Work Order Number:** **96-11-030**
Client Reference: **Penrose Landfill-Integrated Surface Samples**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/04/96 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Curtis Douglas for
Calscience Environmental
Laboratories, Inc.
Tori Arnold
Project Manager

William H. Christensen
Deliverables Manager

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

L.A. By Products/Sepich & Associates		Date Sampled:	11/04/96
3617 East Thousand Oaks Blvd., Suite 303		Date Received:	11/04/96
Westlake Village, CA 91362		Date Analyzed:	11/05/96
		Work Order No.:	96-11-030
Attn: Robert McAllister		Method:	SCAQMD 25.1
RE: Penrose Landfill-Integrated Surface Samples		Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: 1SS 52		
Methane	6	1
TGNMO	6	1
Sample Number: 1SS 53		
Methane	6	1
TGNMO	6	1
Sample Number: PPS U 68'		
Methane, % by volume	0.4	0.1
TGNMO	50	1
Sample Number: TSI		
Oxygen plus Argon, % by volume	0.7	0.1
Nitrogen, % by volume	16.7	0.1
Methane, % by volume	43.6	0.1
Carbon Monoxide, % by volume	ND	0.1
Carbon Dioxide, % by volume	38.9	0.1
TGNMO	751	1

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 11/04/96
Date Received: 11/04/96
Date Analyzed: 11/05/96

Work Order No.: 96-11-030
Method: SCAQMD 25.1
Page 2 of 2

Attn: Robert McAllister
RE: Penrose Landfill-Integrated Surface Samples

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Oxygen plus Argon, % by volume	ND	0.1
Nitrogen, % by volume	ND	0.1
Methane, % by volume	ND	0.1
Carbon Monoxide, % by volume	ND	0.1
Carbon Dioxide, % by volume	ND	0.1
TGNMO	ND	1

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: TSI (Duplicate)				
Oxygen plus Argon, % by volume	0.7	0.9	25	0 - 25
Nitrogen, % by volume	16.7	17.3	4	0 - 25
Methane, % by volume	43.6	43.1	1	0 - 25
Carbon Monoxide, % by volume				0 - 25
Carbon Dioxide, % by volume	38.9	38.6	1	0 - 25
TGNMO	751	701	7	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 11/04/96
Date Received: 11/04/96
Date Analyzed: 11/05/96

Work Order No.: 96-11-030
Method: EPA TO-14/1150.1 LIST
Page 1 of 5

Attn: Robert McAllister
RE: Penrose Landfill-Integrated Surface Samples

All concentrations are reported in ppb (v/v).

Sample Number: ISS 52

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	1.0	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	1.3	0.5
Benzene	3.2	0.5
Carbon Tetrachloride	ND	0.5
Toluene	25.7	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	1.4	0.5
Chlorobenzene	ND	0.5
Total Xylenes	2.3	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	1.4	0.5
1,2-Dichlorobenzene	ND	0.5

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L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 11/04/96
Date Received: 11/04/96
Date Analyzed: 11/06/96

Work Order No.: 96-11-030
Method: EPA TO-14/1150.1 LIST

Attn: Robert McAllister
RE: Penrose Landfill-Integrated Surface Samples

All concentrations are reported in ppb (v/v).

Sample Number: 1SS 53

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	2.4	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	1.2	0.5
Benzene	3.8	0.5
Carbon Tetrachloride	0.5	0.5
Toluene	17.6	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	1.2	0.5
Chlorobenzene	ND	0.5
Total Xylenes	1.6	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	1.5	0.5
1,2-Dichlorobenzene	ND	0.5

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Westlake Village, CA 91362

Date Sampled: 11/04/96
Date Received: 11/04/96
Date Analyzed: 11/06/96

Work Order No.: 96-11-030
Method: EPA TO-14/1150.1 LIST

Attn: Robert McAllister
RE: Penrose Landfill-Integrated Surface Samples

All concentrations are reported in ppb (v/v).

Sample Number: PPS U 68'

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	2.1	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	1.9	0.5
Benzene	1.5	0.5
Carbon Tetrachloride	0.6	0.5
Toluene	16.6	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	2.7	0.5
Chlorobenzene	ND	0.5
Total Xylenes	1.6	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	2.2	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

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3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 11/04/96
Date Received: 11/04/96
Date Analyzed: 11/06/96

Work Order No.: 96-11-030
Method: EPA TO-14/1150.1 LIST
Page 4 of 5

Attn: Robert McAllister
RE: Penrose Landfill-Integrated Surface Samples

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	369	16
Acetonitrile	56.9	8.0
1,1-Dichloroethene	432	16
Methylene Chloride	ND	16
1,1-Dichloroethane	37.2	4.0
Chloroform	ND	4.0
1,2-Dichloroethane	12.4	4.0
1,1,1-Trichloroethane	12.1	4.0
Benzene	1070	16
Carbon Tetrachloride	184	4.0
Toluene	3540 E	16
Trichloroethene	164	4.0
Tetrachloroethene	248	4.0
Chlorobenzene	641	16
Total Xylenes	5090	48
Benzyl Chloride	ND	4.0
1,3-Dichlorobenzene	ND	4.0
1,4-Dichlorobenzene	177	4.0
1,2-Dichlorobenzene	22.0	4.0

E = Estimated concentration.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 11/04/96
Date Received: 11/04/96
Date Analyzed: 11/05/96

Work Order No.: 96-11-030
Method: EPA TO-14/1150.1 LIST
Page 5 of 5

Attn: Robert McAllister
RE: Penrose Landfill-Integrated Surface Samples

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	ND	0.5
Carbon Tetrachloride	ND	0.5
Toluene	ND	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	ND	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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QUALITY ASSURANCE SUMMARY

Method EPA TO-14

L.A. By Products/Sepich & Associates — Work Order No.: 96-11-030

Page 1 of 1 — Date Analyzed: 11/05/96

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Benzene	100	102	60 - 140	2	0 - 30
Bromoform	101	98	60 - 140	3	0 - 30
Carbon Tetrachloride	97	93	60 - 140	4	0 - 30
1,2-Dibromoethane	101	102	60 - 140	1	0 - 30
1,4-Dichlorobenzene	103	98	60 - 140	5	0 - 30
1,2-Dichloroethane	93	86	60 - 140	8	0 - 30
1,2-Dichloropropane	100	103	60 - 140	3	0 - 30
cis-1,3-Dichloropropene	96	96	60 - 140	0	0 - 30
Tetrachloroethene	100	102	60 - 140	2	0 - 30
1,1,2-Trichloroethane	98	98	60 - 140	0	0 - 30
Trichloroethene	96	94	60 - 140	2	0 - 30
Vinyl Chloride	97	102	60 - 140	5	0 - 30

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JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES	J152-6	11-4-96

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

	SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4			FIXED GAS		TOC	REMARKS
1	J152-6	11-4-96	8:43 Am	C	1	ISS 52	✓	✓	✓						
2	J152-6	11-4-96	9:12 Am	C	1	ISS 53	✓	✓	✓						
3	J152-6	11-4-96	9:38 Am	G	1	PPS 4 68'	✓	✓							
4	J152-6	11-4-96	10:05 Am	G	1	TSI	✓	✓				✓			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LA-BY Products Co.	11-4-96	13:10
RECEIVED BY:	[illegible]	CALSCIENCE	11-4-96	13:10
RELINQUISHED BY:	[illegible]	CALSCIENCE Co	11-4-96	16:20
RECEIVED BY:	[illegible]	"	11/4/96	1615
RELINQUISHED BY:				
RECEIVED BY:				

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RECEIVED
DEC 05 1996
LA BY PRODUCTS

December 03, 1996

Robert McAllister
LA By Products
1810 East 25th Street
Los Angeles, CA 90058

Subject: **Calscience Work Order Number: 96-11-270**
Client Reference: Integrated Surface Samples/J152-6

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/21/96 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

for
Calscience Environmental
Laboratories, Inc.
Tori Arnold
Project Manager

William H. Christensen
Deliverables Manager

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ANALYTICAL REPORT

LA By Products		Date Sampled:	11/20/96
1810 East 25th Street		Date Received:	11/21/96
Los Angeles, CA 90058		Date Analyzed:	11/21/96
		Work Order No.:	96-11-270
Attn: Robert McAllister		Method:	SCAQMD 25.1
RE: Integrated Surface Samples/J152-6		Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: ISS 54		
Methane	9	1
TGNMO	4	1
Sample Number: ISS 55		
Methane	9	1
TGNMO	4	1
Sample Number: PPS V 80'		
Methane	8	1
TGNMO	18	1
Sample Number: TSI		
Oxygen plus Argon, % by volume	0.8	0.1
Nitrogen, % by volume	16.4	0.1
Methane, % by volume	42.5	0.1
Carbon Dioxide, % by volume	40.3	0.1
TGNMO	392	1

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ANALYTICAL REPORT

LA By Products 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	11/20/96 11/21/96 11/21/96
Attn: Robert McAllister RE: Integrated Surface Samples/J152-6	Work Order No.: Method: Page 2 of 2	96-11-270 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Oxygen plus Argon, % by volume	ND	0.1
Nitrogen, % by volume	ND	0.1
Carbon Dioxide, % by volume	ND	0.1
Methane	ND	1
TGNMO	ND	1

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: TSI (Duplicate)				
Oxygen plus Argon, % by volume	0.8	0.8	0	0 - 25
Nitrogen, % by volume	16.4	16.6	1	0 - 25
Methane, % by volume	42.5	42.5	0	0 - 25
Carbon Dioxide, % by volume	40.3	40.1	0	0 - 25
TGNMO	392	376	4	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

LA By Products
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 11/20/96
Date Received: 11/21/96
Date Analyzed: 11/21/96

Work Order No.: 96-11-270
Method: EPA TO-14/1150.1 LIST
Page 1 of 5

Attn: Robert McAllister
RE: Integrated Surface Samples/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS 54

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.5
Methylene Chloride	2.2	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	1.1	0.5
Benzene	1.7	0.5
Carbon Tetrachloride	ND	0.5
Trichloroethene	ND	0.5
Toluene	20.7	0.5
Tetrachloroethene	4.5	0.5
Chlorobenzene	ND	0.5
Total Xylenes	9.0	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	18.5	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

LA By Products
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 11/20/96
Date Received: 11/21/96
Date Analyzed: 11/22/96

Work Order No.: 96-11-270
Method: EPA TO-14/1150.1 LIST
Page 2 of 5

Attn: Robert McAllister
RE: Integrated Surface Samples/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS 55

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	0.9	0.5
Benzene	2.1	0.5
Carbon Tetrachloride	ND	0.5
Trichloroethene	ND	0.5
Toluene	24.1	0.5
Tetrachloroethene	6.2	0.5
Chlorobenzene	ND	0.5
Total Xylenes	13.9	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	23.8	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

LA By Products
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 11/20/96
Date Received: 11/21/96
Date Analyzed: 11/22/96

Work Order No.: 96-11-270
Method: EPA TO-14/1150.1 LIST
Page 3 of 5

Attn: Robert McAllister
RE: Integrated Surface Samples/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: PPS V 80'

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2
1,1-Dichloroethane	ND	0.5
Chloroform	5.1	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	4.2	0.5
Benzene	1.2	0.5
Carbon Tetrachloride	ND	0.5
Trichloroethene	0.6	0.5
Toluene	14.2	0.5
Tetrachloroethene	17.6	0.5
Chlorobenzene	ND	0.5
Total Xylenes	8.1	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	25.0	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

LA By Products
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 11/20/96
Date Received: 11/21/96
Date Analyzed: 11/22/96

Work Order No.: 96-11-270
Method: EPA TO-14/1150.1 LIST
Page 4 of 5

Attn: Robert McAllister
RE: Integrated Surface Samples/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	4960	400
Acetonitrile	ND	800
1,1-Dichloroethene	ND	400
Methylene Chloride	4720	1600
1,1-Dichloroethane	ND	400
Chloroform	ND	400
1,2-Dichloroethane	ND	400
1,1,1-Trichloroethane	504	400
Benzene	12000	400
Carbon Tetrachloride	ND	400
Trichloroethene	2160	400
Toluene	66300	400
Tetrachloroethene	1650	400
Chlorobenzene	5520	400
Total Xylenes	80100	1200
Benzyl Chloride	ND	400
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	1120	400
1,2-Dichlorobenzene	ND	400

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ANALYTICAL REPORT

LA By Products
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 11/20/96
Date Received: 11/21/96
Date Analyzed: 11/21/96

Work Order No.: 96-11-270
Method: EPA TO-14/1150.1 LIST
Page 5 of 5

Attn: Robert McAllister
RE: Integrated Surface Samples/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	ND	0.5
Carbon Tetrachloride	ND	0.5
Trichloroethene	ND	0.5
Toluene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	ND	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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QUALITY ASSURANCE SUMMARY

EPA TO-14/1150.1 LIST

LA By Products
Page 1 of 1

Work Order No.: 96-11-270
Date Analyzed: 11/19/96

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Benzene	118	137	60 - 140	15	0 - 30
Bromoform	106	110	60 - 140	4	0 - 30
Carbon Tetrachloride	104	112	60 - 140	7	0 - 30
1,2-Dibromoethane	118	118	60 - 140	0	0 - 30
1,4-Dichlorobenzene	85	102	60 - 140	18	0 - 30
1,2-Dichloroethane	96	98	60 - 140	2	0 - 30
1,2-Dichloropropane	119	117	60 - 140	2	0 - 30
cis-1,3-Dichloropropene	110	114	60 - 140	4	0 - 30
Tetrachloroethene	116	122	60 - 140	5	0 - 30
1,1,2-Trichloroethane	114	121	60 - 140	6	0 - 30
Trichloroethene	126	126	60 - 140	0	0 - 30
Vinyl Chloride	111	124	60 - 140	11	0 - 30

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	11-20-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4			FIXED GAS		TOC	REMARKS
J152 6	11-20 96	9:53 Am	C	1	ISS 54	✓	✓	✓						
J152 6	11-20 96	10:30 AM	C	1	ISS 55	✓	✓	✓						
J152 6	11-20 96	11:00 Am	G	1	PPS V 80'	✓	✓							
J152 6	11-20 96	11:44 Am	G	1	TSI	✓	✓				✓			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert mcAllister	LOS ANGELES BY-Products CO.	11-21-96	
RECEIVED BY:	[illegible]	OMNI-CLEAN CE	11-21-96	0845
RELINQUISHED BY:	[illegible]	OMNI-CLEANCE	11/21/96	1055
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				

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Calscience
Environmental
Laboratories, Inc.

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December 30, 1996

Robert McAllister
L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Subject: **Calscience Work Order Number: 96-12-306**
Client Reference: IS Samples /J152-6

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/18/96 and analyzed in accordance with the attached chain-of-custody.

The results in this analytical report are limited to the samples tested, and any reproduction of this report must be made in its entirety.

If you have any questions regarding this report, require sampling supplies or field services, or information on our analytical services, please feel free to call me at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jody McInerney
Project Manager

William H. Christensen
Deliverables Manager

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	12/18/96
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	12/18/96
Westlake Village, CA 91362	Date Analyzed:	12/19/96
	Work Order No.:	96-12-306
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: IS Samples/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Oxygen plus Argon	1.0*	0.1
Nitrogen	17.3*	0.1
Carbon Dioxide	35.9*	0.1
TGNMO	351	1

Sample Number: ISSW

Methane	3	1
TGNMO	14	1

Sample Number: ISS# 56

Methane	2	1
TGNMO	11	1

Sample Number: PPS U68

TGNMO	10	1

* Reported in percent (%) by volume.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	12/18/96
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	12/18/96
Westlake Village, CA 91362	Date Analyzed:	12/19/96
	Work Order No.:	96-12-306
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: IS Samples/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Carbon Dioxide	ND*	0.1
Methane	ND	1
TGNMO	ND	1

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen	1.0*	1.0*	0	0 - 25
Nitrogen	17.3*	17.4*	1	0 - 25
Carbon Dioxide	35.9*	35.6*	1	0 - 25
Methane	45.8*	46.0*	1	0 - 25
TGNMO	351	346	1	0 - 25

* Reported in percent (%) by volume.

TGNMO denotes Total Gaseous Non-Methane Organics.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	IS Samples /J152-6		
Work Order Number:	96-12-306		
QC Batch ID:	961218	Date Collected:	12/18/96
Matrix:	Air	Date Received:	12/18/96
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	12/19/96

Client Sample Number: **TSI**
Lab Sample Number: 96-12-306-1

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	570	20		ppb (v/v)
Acetonitrile	ND	40		ppb (v/v)
1,1-Dichloroethene	ND	20		ppb (v/v)
Methylene Chloride	ND	80		ppb (v/v)
1,1-Dichloroethane	41	20		ppb (v/v)
Chloroform	ND	20		ppb (v/v)
1,2-Dichloroethane	88	20		ppb (v/v)
1,1,1-Trichloroethane	38	20		ppb (v/v)
Benzene	1280	20		ppb (v/v)
Carbon Tetrachloride	ND	20		ppb (v/v)
Toluene	4250	20	E	ppb (v/v)
Trichloroethene	320	20		ppb (v/v)
Tetrachloroethene	233	20		ppb (v/v)
Chlorobenzene	761	20		ppb (v/v)
Xylenes (total)	7450	60		ppb (v/v)
Benzyl Chloride	ND	20		ppb (v/v)
1,3-Dichlorobenzene	ND	20		ppb (v/v)
1,4-Dichlorobenzene	382	20		ppb (v/v)
1,2-Dichlorobenzene	55	20		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

ACCREDITED

Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	IS Samples /J152-6		
Work Order Number:	96-12-306		
QC Batch ID:	961218	Date Collected:	12/18/96
Matrix:	Air	Date Received:	12/18/96
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	12/19/96

Client Sample Number: **ISS W**
Lab Sample Number: 96-12-306-2

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	2.1	0.5		ppb (v/v)
Benzene	2.4	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	29.1	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	1.9	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	8.5	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	4.6	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	IS Samples /J152-6		
Work Order Number:	96-12-306		
QC Batch ID:	961218	Date Collected:	12/18/96
Matrix:	Air	Date Received:	12/18/96
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	12/18/96

Client Sample Number: **ISS # 56**
Lab Sample Number: 96-12-306-3

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	1.7	0.5		ppb (v/v)
Benzene	2.3	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	19.9	0.5		ppb (v/v)
Trichloroethene	2.1	0.5		ppb (v/v)
Tetrachloroethene	4.3	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	7.8	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	7.0	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	IS Samples /J152-6		
Work Order Number:	96-12-306		
QC Batch ID:	961218	Date Collected:	12/18/96
Matrix:	Air	Date Received:	12/18/96
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	12/19/96

Client Sample Number: **PPS U68**
Lab Sample Number: 96-12-306-4

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	1.7	0.5		ppb (v/v)
Benzene	0.9	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	13.9	0.5		ppb (v/v)
Trichloroethene	0.6	0.5		ppb (v/v)
Tetrachloroethene	2.0	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	5.2	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	7.2	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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ANALYTICAL REPORT

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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Client Name:	L.A. By Products/Sepich & Associates		
Project ID:	IS Samples /J152-6		
Work Order Number:	96-12-306		
QC Batch ID:	961218	Date Collected:	N/A
Matrix:	Air	Date Received:	N/A
Extraction:	N/A	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	12/18/96

Client Sample Number: **Method Blank**
Lab Sample Number: 095-01-021-180

Parameter	Result	RL	Qualifiers	Units
Vinyl Chloride	ND	0.5		ppb (v/v)
Acetonitrile	ND	1.0		ppb (v/v)
1,1-Dichloroethene	ND	0.5		ppb (v/v)
Methylene Chloride	ND	2.0		ppb (v/v)
1,1-Dichloroethane	ND	0.5		ppb (v/v)
Chloroform	ND	0.5		ppb (v/v)
1,2-Dichloroethane	ND	0.5		ppb (v/v)
1,1,1-Trichloroethane	ND	0.5		ppb (v/v)
Benzene	ND	0.5		ppb (v/v)
Carbon Tetrachloride	ND	0.5		ppb (v/v)
Toluene	ND	0.5		ppb (v/v)
Trichloroethene	ND	0.5		ppb (v/v)
Tetrachloroethene	ND	0.5		ppb (v/v)
Chlorobenzene	ND	0.5		ppb (v/v)
Xylenes (total)	ND	1.5		ppb (v/v)
Benzyl Chloride	ND	0.5		ppb (v/v)
1,3-Dichlorobenzene	ND	0.5		ppb (v/v)
1,4-Dichlorobenzene	ND	0.5		ppb (v/v)
1,2-Dichlorobenzene	ND	0.5		ppb (v/v)

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Quality Control - LCS/LCS Duplicate

EPA TO-14 SCAQMD Rule 1150.1 Compounds

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LCS/LCSD Batch Number:	961218	Instrument:	GC/MS E
Matrix:	Air	Date Extracted:	N/A
Method:	EPA TO-14	Date Analyzed:	12/17/96

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Vinyl Chloride	106	105	60-140	0	0-30	
1,2-Dichloroethane	128	126	60-140	1	0-30	
Benzene	100	103	60-140	2	0-30	
Carbon Tetrachloride	134	129	60-140	3	0-30	
1,2-Dichloropropane	122	120	60-140	1	0-30	
c-1,3-Dichloropropene	120	120	60-140	0	0-30	
1,1,2-Trichloroethane	112	106	60-140	5	0-30	
1,2-Dibromoethane	114	108	60-140	5	0-30	
Trichloroethene	127	132	60-140	3	0-30	
Tetrachloroethene	107	104	60-140	2	0-30	
Bromoform	123	117	60-140	5	0-30	
1,4-Dichlorobenzene	128	113	60-140	12	0-30	
1,2-Dichlorobenzene	130	127	60-140	2	0-30	

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GLOSSARY OF TERMS AND QUALIFIERS

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Work Order Number: 96-12-306

Qualifier	Definition
E	Concentration exceeds the calibration range.
ND	Not detected at indicated reporting limit.

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	12/18/96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4		Fixed Gas			TOC	REMARKS
J152-6	12/18/96	8:25 Am	G	1	TSI	✓	✓			✓				
J152-6	12/18/96	8:56 Am	C	1	ISS W	✓	✓	✓						
J152-6	12/18/96	9:22 Am	C	1	ISS #56	✓	✓	✓						
J152-6	12/18/96	10:00 Am	G	1	PPS 4 68'	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LA-BY-PRODUCTS	12/18/96	11:10 Am
RECEIVED BY:	[illegible]	CALSCIENCE	12/18/96	11:10 Am
RELINQUISHED BY:	[illegible]	CALSCIENCE	12/18/96	1420
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	CEL	12/18/96	1420

001659

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EXHIBIT E

Laboratory Analytical Results - Source Test, 1996

(September 5, 1996)

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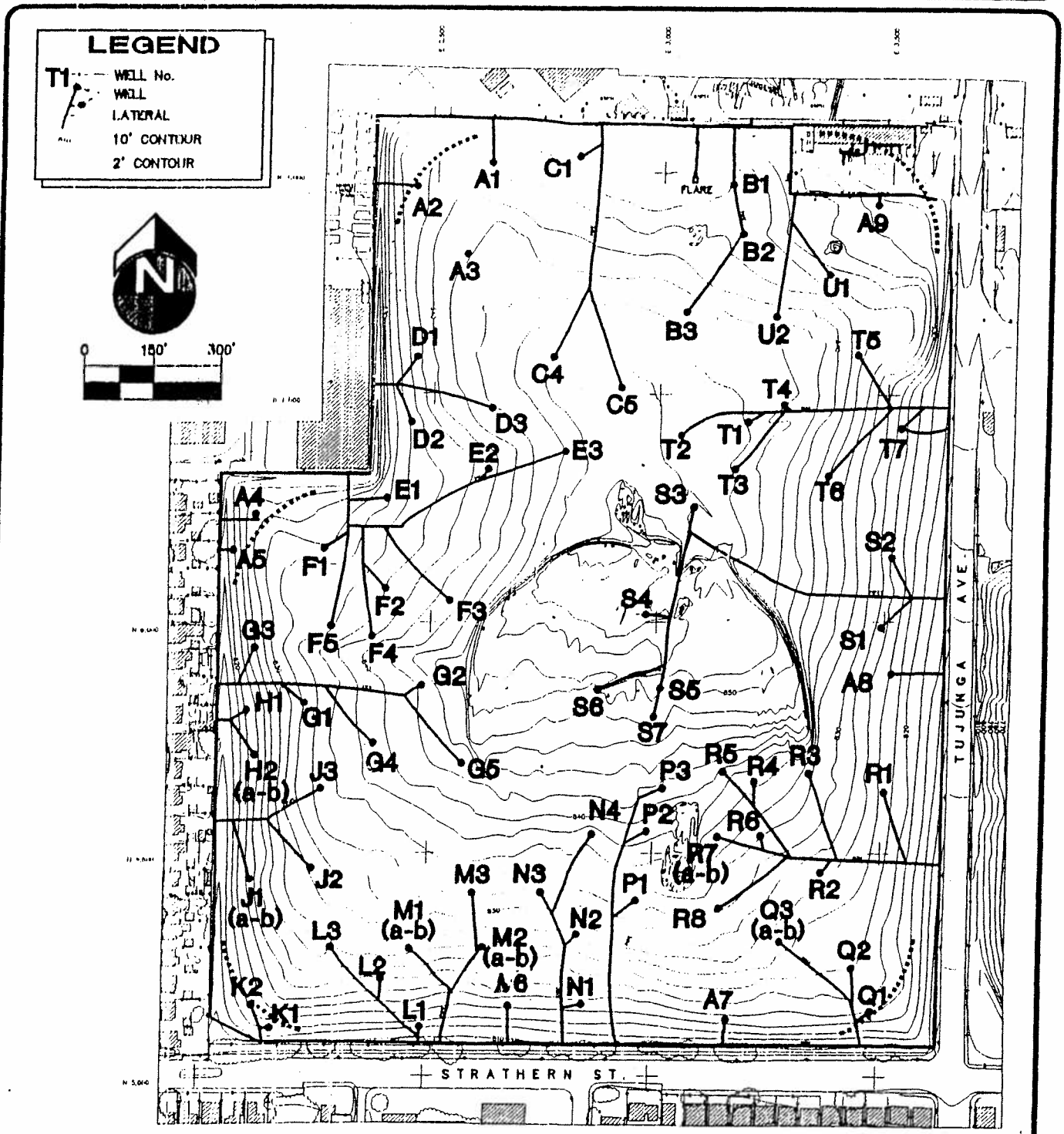
J152-6

PENROSE LANDFILL GAS COLLECTION SYSTEM



SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987
CIVIL ENGINEERS SANITARY ENVIRONMENTAL WASTE AND GAS CONTROL SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1928
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

10-13-96 WELL-SYS

SHEET OF

001661

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 E. Thousand Oaks Blvd. #303
Westlake Village, CA 91362

Date Sampled: 09/05/96
Date Received: 09/05/96
Date Analyzed: 09/08/96

Work Order No.: 96-09-058
Method: EPA TO-14/1150.1 LIST
Page 1 of 2

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	1400	800
Acetonitrile	ND	800
1,1-Dichloroethene	ND	800
Methylene Chloride	ND	3000
1,1-Dichloroethane	ND	800
Chloroform	ND	800
1,2-Dichloroethane	ND	800
1,1,1-Trichloroethane	ND	800
Benzene	9400	800
Carbon Tetrachloride	ND	800
Toluene	19400	800
Trichloroethene	ND	800
Tetrachloroethene	4100	800
Chlorobenzene	1800	800
Total Xylenes	22100	1900
Benzyl Chloride	ND	800
1,3-Dichlorobenzene	ND	800
1,4-Dichlorobenzene	ND	800
1,2-Dichlorobenzene	ND	800

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates		Date Sampled:	09/05/96
3617 E. Thousand Oaks Blvd. #303		Date Received:	09/05/96
Westlake Village, CA 91362		Date Analyzed:	09/08/96
		Work Order No.:	96-09-058
Attn: Alex Feucht		Method:	EPA TO-14/1150.1 LIST
RE: Penrose Landfill/J152-6		Page 2 of 2	

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	ND	0.5
Carbon Tetrachloride	ND	0.5
Toluene	ND	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	ND	0.7
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	09/05/96
3617 E. Thousand Oaks Blvd. #303	Date Received:	09/05/96
Westlake Village, CA 91362	Date Analyzed:	09/06/96
	Work Order No.:	96-09-058
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Oxygen plus Argon	4850	1000
Nitrogen	128000	1000
Methane	391000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	476000	1000
TGNMO	438	1
Sample Number: Method Blank		
Oxygen plus Argon	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
TGNMO	ND	1

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	09/05/96
3617 E. Thousand Oaks Blvd. #303	Date Received:	09/05/96
Westlake Village, CA 91362	Date Analyzed:	09/06/96
	Work Order No.:	96-09-058
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Sample Number: 96-09-041-1 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	RPD	Control Limits
Oxygen plus Argon	153000	155000	1	0 - 25
Nitrogen	786000	786000	0	0 - 25
Methane	ND	ND	NA	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	60500	58800	2	0 - 25
TGNMO	26	28	7	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ACCREDITED

QUALITY ASSURANCE SUMMARY

Method EPA TO-14/1150.1 List

L.A. By Products/Sepich & Associates — Work Order No.: 96-09-058

 — Date Analyzed: 09/06/96

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Benzene	124	124	60 - 140	0	0 - 30
Bromoform	103	103	60 - 140	0	0 - 30
Carbon Tetrachloride	119	115	60 - 140	3	0 - 30
1,2-Dibromoethane	112	111	60 - 140	1	0 - 30
1,4-Dichlorobenzene	103	109	60 - 140	6	0 - 30
1,2-Dichloroethane	124	124	60 - 140	0	0 - 30
1,2-Dichloropropane	111	104	60 - 140	6	0 - 30
cis-1,3-Dichloropropene	112	108	60 - 140	4	0 - 30
Tetrachloroethene	127	125	60 - 140	2	0 - 30
1,1,2-Trichloroethane	112	105	60 - 140	6	0 - 30
Trichloroethene	115	110	60 - 140	4	0 - 30
Vinyl Chloride	83	81	60 - 140	2	0 - 30

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(058)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	9-5-96

CHAIN OF CUSTODY RECORD

SHEET___OF___

SAMPLE TAKEN BY:

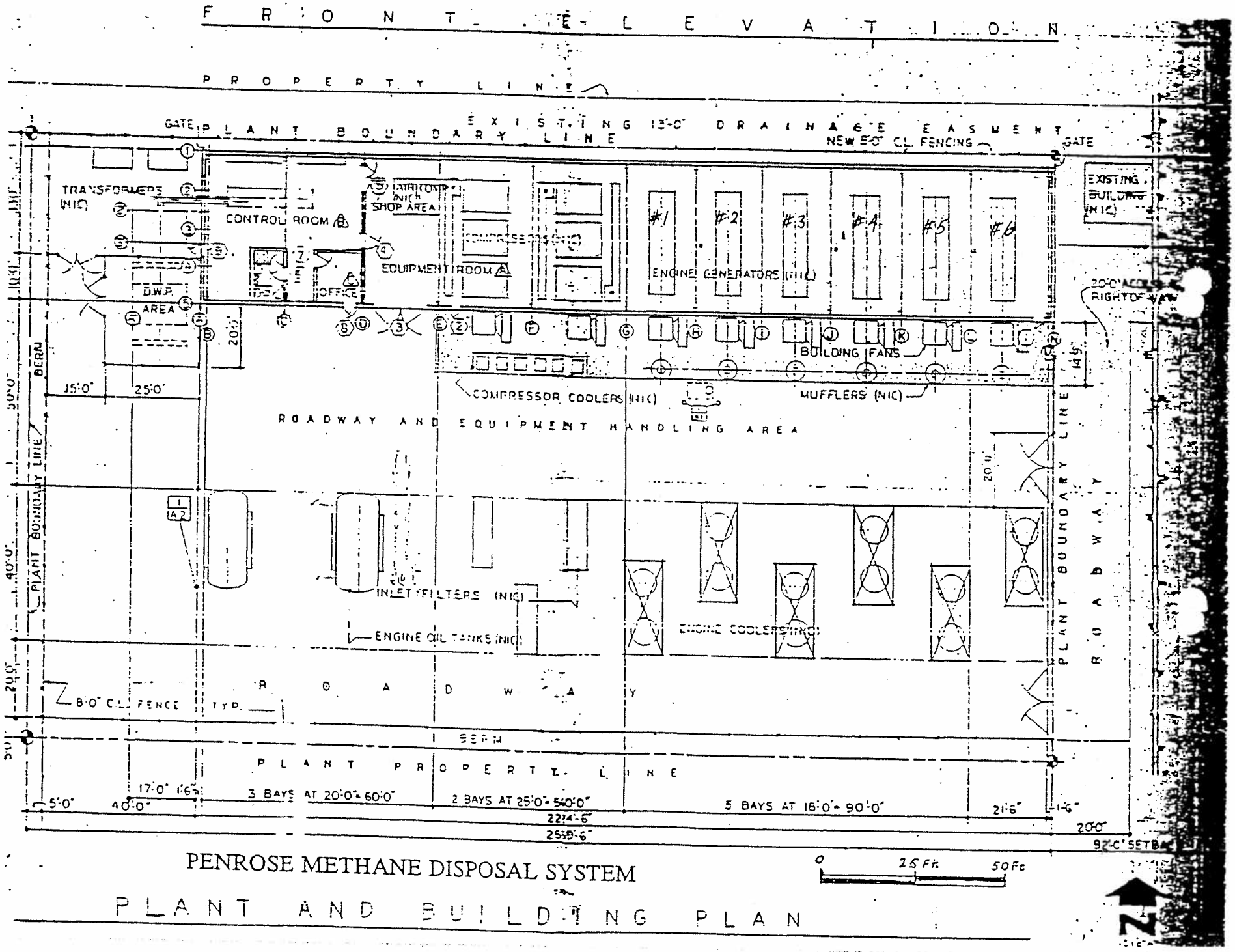
ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	[redacted]			Fixed Gas		[redacted]	REMARKS
J152-6	9-5-96	10:40 AM	G	1	TSI	✓	✓				✓			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LA BYPRD	9-5-96	1240
RECEIVED BY:	[illegible]	CALSCIENCE	9-5-96	1240
RELINQUISHED BY:	[illegible]	CALSCIENCE	9-5-96	1655
RECEIVED BY:	For Ramnarain.	Calscience	9-5-96	1655
RELINQUISHED BY:				
RECEIVED BY:				



PENROSE METHANE DISPOSAL SYSTEM

PLANT AND BUILDING PLAN

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TABLE 2

PENROSE LANDFILL INTERNAL COMBUSTION ENGINE #1 - RESULTS

TEST CONDITIONS

	IC ENGINE #1
Stack Gas Flow Rate (dscfm)	6,334
Rated Production (KW/hr)	1875
Production During Test (KW/hr)	1875
Percent of Rated Production (%)	100

SOURCE TEST RESULTS

Contaminant	Units	Emissions Measured	Emissions Allowed (ppm)	SCAQMD Applicable Rule
Oxides of Nitrogen	ppm ppm @ 15% O_2 lb/hr	158 70.6 7.30	150	1110.1
Carbon Monoxide	ppm lb/hr	386 10.8	2000	407(a)(1)
Total Reduced Sulfur	ppm	72.6	150	431.1

TABLE 2

PENROSE LANDFILL INTERNAL COMBUSTION ENGINE #2 - RESULTS

TEST CONDITIONS

	IC ENGINE #2
Stack Gas Flow Rate (dscfm)	6,323
Rated Production (KW/hr)	1875
Production During Test (KW/hr)	1875
Percent of Rated Production (%)	100

SOURCE TEST RESULTS

Contaminant	Units	Emissions Measured	Emissions Allowed (ppm)	SCAQMD Applicable Rule
Oxides of Nitrogen	ppm ppm @ 15% O_2 lb/hr	130 60.2 5.99	150	1110.1
Carbon Monoxide	ppm lb/hr	403.5 11.3	2000	407(a)(1)
Total Reduced Sulfur	ppm	72.6	150	431.1

TABLE 2

PENROSE LANDFILL INTERNAL COMBUSTION ENGINE #5 - RESULTS

TEST CONDITIONS

	IC ENGINE #~~1~~ 5
Stack Gas Flow Rate (dscfm)	6,456
Rated Production (KW/hr)	1875
Production During Test (KW/hr)	1875
Percent of Rated Production (%)	100

SOURCE TEST RESULTS

Contaminant	Units	Emissions Measured	Emissions Allowed (ppm)	SCAQMD Applicable Rule
Oxides of Nitrogen	ppm ppm @ 15% O_2 lb/hr	101 47.9 4.75	150	1110.1
Carbon Monoxide	ppm lb/hr	430 12.3	2000	407(a)(1)
Total Reduced Sulfur	ppm	72.6	150	431.1

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October 10, 1996

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Third Quarter, 1996
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the twelfth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period July through September 1996. In compliance with the SCAQMD Rule 1150. permit, this quarterly report contains source test information required on an annual bases (see Section A.5 of this report).

Monitoring and sampling for this report was performed on July 1, 2, 17, and 29, August 1, 6, 22, 23, and 30, and September 5, 12, 27, and 30, 1996.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet (referred to as TSI for gas treatment system inlet) gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements. Rule 1150.1 also requires simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%)

by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a map showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and

core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected location shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, July through September 1996, field monitoring was conducted on July 1, 2, 17, and 29, August 1, 6, 9, 22, and 23, and September 5, 12, 27, and 30. Perimeter probe and integrated surface samples were collected for laboratory analysis on July 29, August 22, and September 27, 1996. Power plant inlet samples were collected for laboratory analyses on July 29, August 23, September 5 and September 27, 1996 (see Exhibit C for field documentation).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on July 1, July 17, August 1, August 30, September 12, and September 30, 1996 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 48 hours of sampling.

Perimeter probe sampling was conducted at Probe # 5A on July 29, at Probe # 19 on August 22, and at Probe P (10-foot depth) on September 27, 1996. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on July 29, August 22, and September 27, 1996, by focusing sampling efforts in zones where TOC surface sampling had not previously been conducted. During instantaneous surface monitoring, no areas had detectable TOC readings in July, August, or September. On July 29 Areas 46 and 47 were sampled (see Integrated Surface Sampling Map in Exhibit A), on August 22, Areas 48 and 49 were sampled, and on September 27, Areas 50 and 51 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. The ISS field monitoring results for the Third Quarter TOC and H_2S concentrations were all non-detect.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring Path A was traversed on July 2 and September 5, and Path B was traversed on August 6, 1996. In July, August, and September no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling (TSI samples)

10-liter bag samples were collected from the Pacific Energy (PE) electrical generation plant inlet pipeline on July 29, August 23, September 5, and September 27, 1996. TOC was monitored with a GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were collected on September 5, 1996 and results of inlet analyses are reported in this third quarter 1996 report. LA By-Products Company sampled from an inlet containing Penrose gas only. Exhaust samples were collected from three of the engines at the power plant by Horizon Air Measurement Services, Inc., for the SCAQMD. The exhaust samples are from the mixture of landfill gas from Penrose, Sheldon, and Bradley landfills, that is being burned at the plant.

B.6 Reporting Requirements

This is the twelfth in a series of quarterly reports and the third quarterly report for Penrose Landfill for 1996. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring is performed bi-monthly by Positive Lab Service. Their early (to mid-) month data was used to select the monthly probe sampling stations and their (mid to) late-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibits D and E.

C.1 Perimeter Probe Monitoring and Laboratory Results

July 17, 1996 perimeter probe monitoring results indicated non-detect (ND) readings of TOC from all probes. Probe 5A was sampled on July 29, 1996.

Table I - July 1996
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBE SAMPLED ON
July 29, 1996

Probe Number	Depth (feet)	Field Value 7/17/96 (% Vol)	Field Value 7/29/96 (% Vol)	Lab Results 7/29/96 (% Vol)	Follow-up Field Value 8/01/96 (% Vol)
5A	5	ND	ND	0.0002	ND

Note: Laboratory samples were collected 7/29/96. Field values are volume percent TOC.

ND None detected.

August 1, 1996 perimeter probe monitoring results indicated all probe readings were non-detect. Probe # 19 was sampled on August 22, 1996. Analytical results from the August 22, 1996 sample recorded 1 parts per million (ppm) methane.

Table II - August 1996
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
ON August 22, 1996

Probe Number	Depth (feet)	Field Value 8/01/96 (% Vol)	Field Value 8/22/96 (% Vol)	Lab Result 8/22/96 (% Vol)	Follow-up Field Value 8/30/96 (% Vol)
19	4	ND	ND	<0.0001	ND

Note: Laboratory samples were collected 8/22/96. Laboratory results are volume percent of methane. Field values are volume percent TOC.

September 12, 1996 perimeter probe monitoring results indicated 1% TOC from Probe Q at 40 feet. All other probe readings were non-detect. On September 12, 1996, City of Los Angeles, LEA inspectors recorded 11% TOC from Probe P at 10 feet. Subsequent mitigation measures reduced the readings at that probe to ND. Probe P at 10-feet was sampled on September 27, 1996. Analytical results from the September 27, 1996 sample was less than the detection limit of one part per million (ppm) methane.

Table III - September 1996
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
ON September 27, 1996

Probe Number	Depth (feet)	Field Value 9/12/96 (% Vol)	Field Value 9/20/96 (% Vol)	Field Value 9/27/96 (% Vol)	Lab Result 9/27/96 (% Vol)	Follow-up Field Value 9/30/96 (% Vol)
P	10	ND & 11	ND	ND	<0.0001	ND

Note: Laboratory samples were collected 9/27/96. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NA Not available.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - THIRD QUARTER 1996
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA		CH_4 (PPMV)	TGNMO (PPMV)
7/29/96	AREA # 46	2	<1
7/29/96	AREA # 47	2	<1
8/22/96	AREA # 48	1	9
8/22/96	AREA # 49	1	13
9/27/96	AREA # 50	1	6
9/27/96	AREA # 51	1	4

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibits A and C).

< Less than the detection limit given.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Third Quarter of 1996.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 38.9% methane on July 29, 40.9% methane on August 22, 39.1% methane on September 5, and 37.7% methane on September 27, 1996. Dreager tube analytical results were 115 ppm H_2S on July 29, 110 ppm H_2S on August 22, 110 ppm H_2S on September 5, and 100 ppm H_2S on September 27, 1996. Analytical results for fixed gases, NMHC, and core group toxic air contaminants are included in Exhibit D and E.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling was conducted on September 5, 1996. The analytical results from the samples collected at the plant inlet, for source testing in 1996, are included in Exhibit E. The analytical results from the exhaust samples collected for source testing are not yet available, these will be reported in the next quarterly report.

C.6 Report Requirements

This report constitutes the 1996, Third Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

Major compliance endeavors enacted by Los Angeles By-Products Company and Pacific Energy in the past several years include:

- Mitigation well program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter, 1995 (including revised and improved gas collection system, see Gas Collection System map in Exhibit A); (note that Gas Collection System map has a revised well numbering system) and
- Replacement probe installation in Fourth Quarter, 1995.

The high TOC found by the LEA on September 12, 1996, was followed by adjustments in the gas extraction system designed to alleviate the accumulation of methane at the perimeter near Probe P. Subsequent monitoring recorded ND on September 20, 27, and 30, 1996.

Perimeter probe monitoring, by Positive Labs, on September 30, 1996 recorded 5% TOC at 10 feet, 10% TOC at 40 feet, and 5% TOC at 80 feet from Probe R and 12% TOC at 37 feet from Probe U. Adjustments in the gas extraction system designed to alleviate the accumulation of methane at the perimeter near probes R and U were made by Pacific Energy. Probes R and U were subsequently monitored by Robert McAllister of Los Angeles By-Products. The results of these monitoring events are included in Table V.

Table V
SUMMARY OF FIELD TOC
FOR PERIMETER PROBES WHICH READ HIGH
on September 30, 1996

Probe Number	Depth (feet)	Field Values 9/30/96 (% Vol)	Field Values 10/8/96 (% Vol)	Field Values 10/11/96 (% Vol)
R	10	5	ND	ND
R	40	10	5	ND
R	80	5	ND	ND
U	37	12	10	ND

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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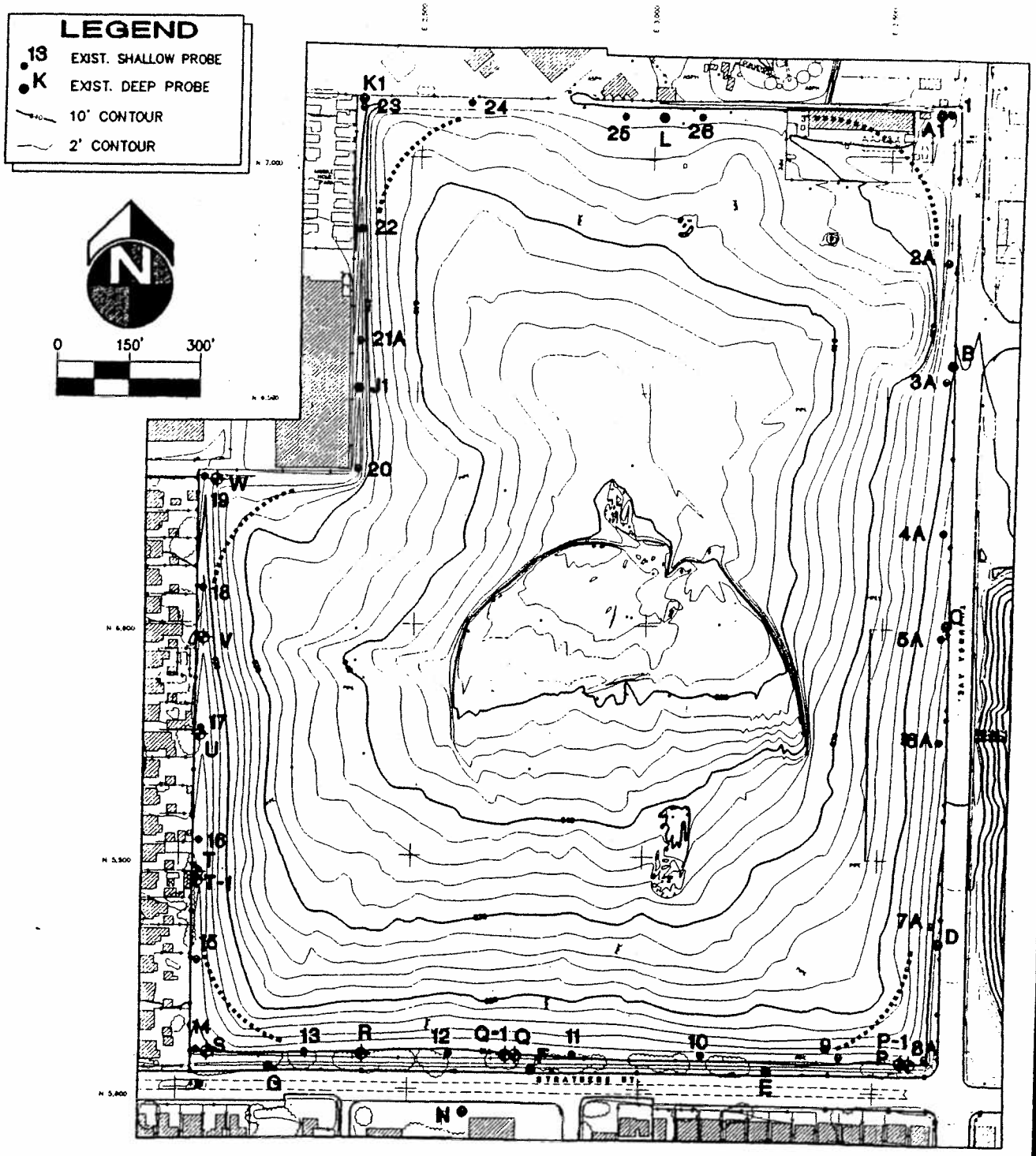
PENROSE LANDFILL MONITORING PROBE LOCATIONS



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4-22-96 PMAP-LOG

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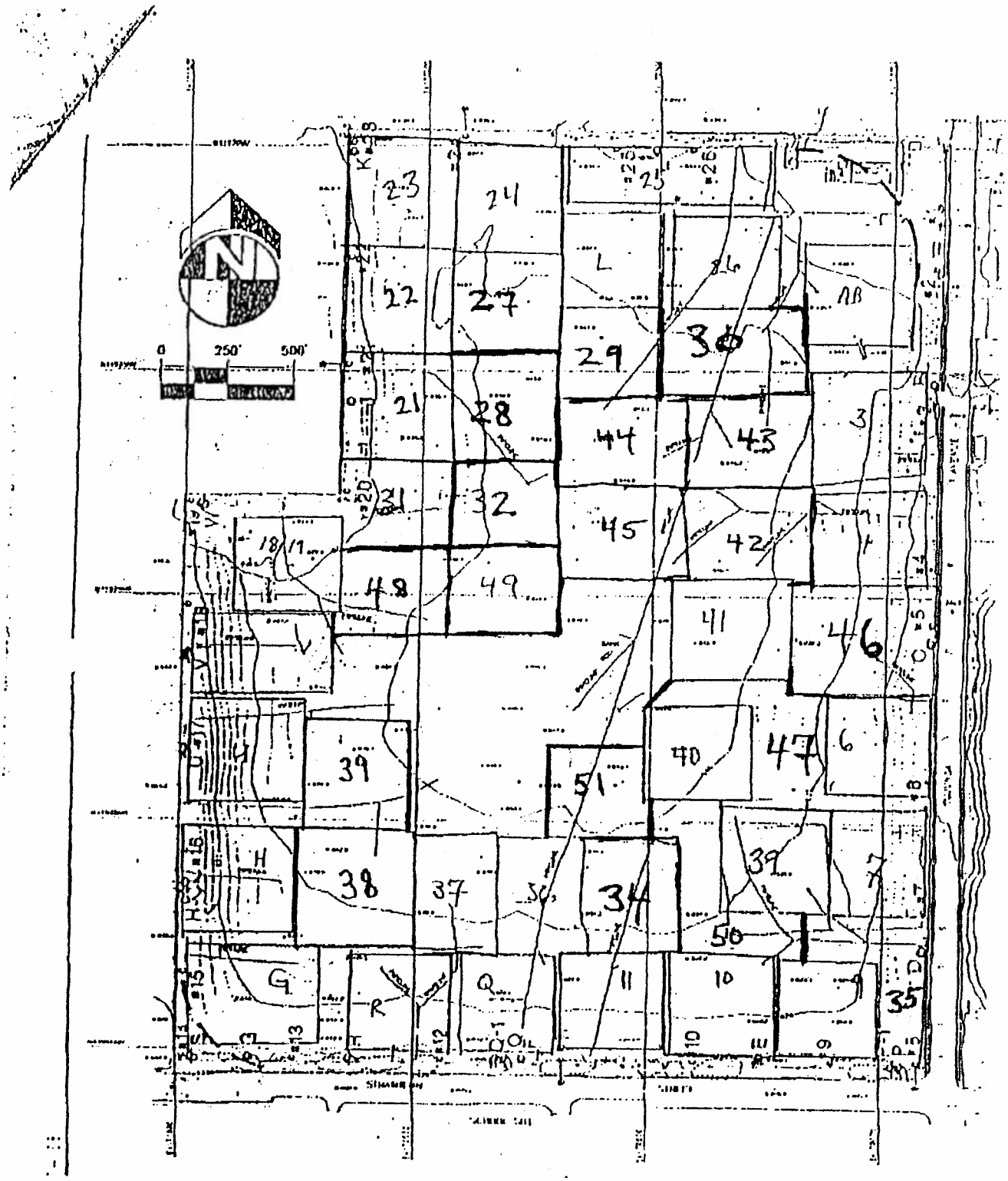

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PENROSE LANDFILL

INTEGRATED SURFACE SAMP

SAMPLING DATE _____ SAMPLER _____ SHEET

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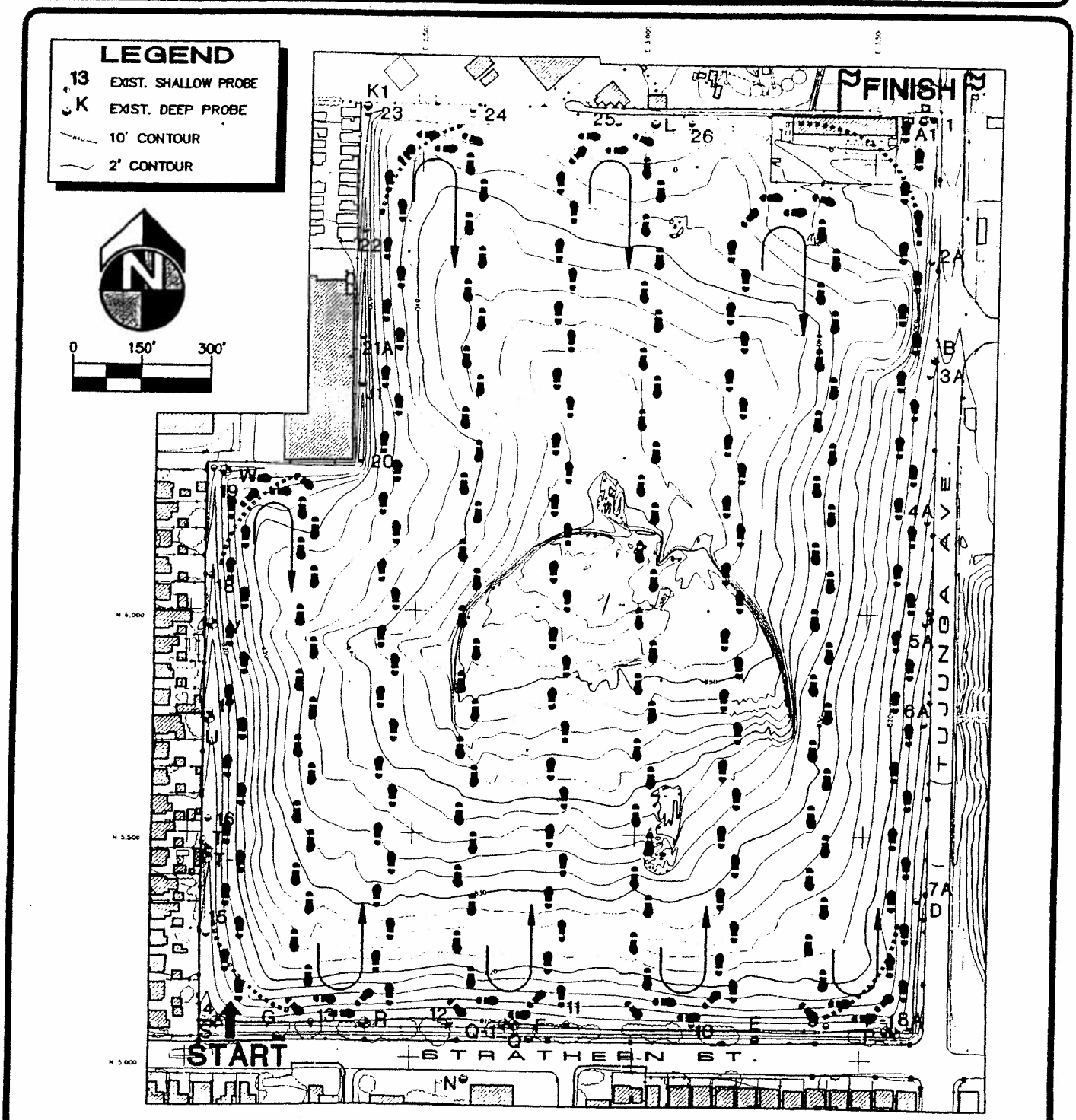
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

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4-26-96 J152PATH

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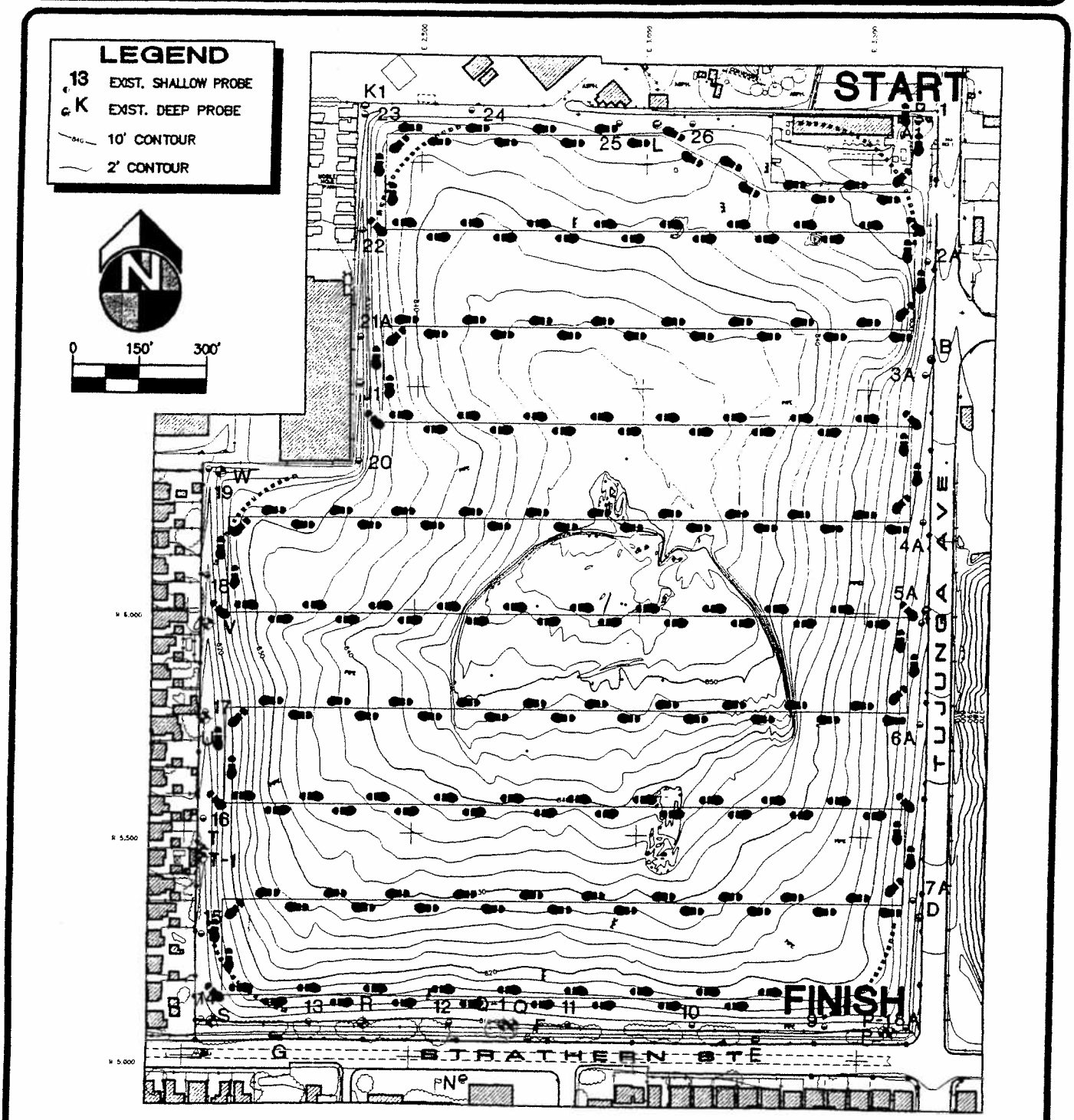
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



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4-26-96 J152PATH

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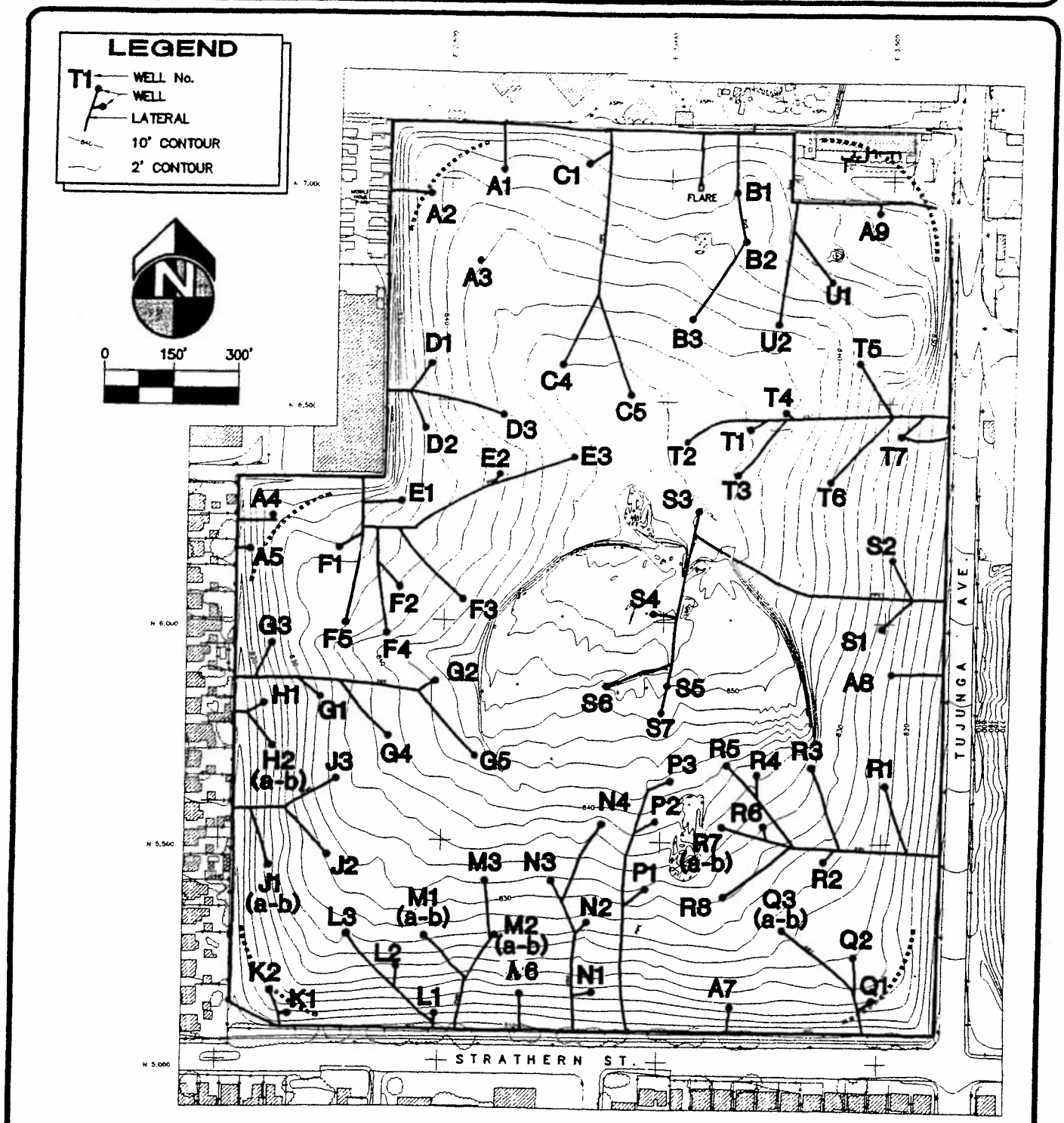
J152-6

PENROSE LANDFILL
GAS COLLECTION SYSTEM



10-15-96 WELL-SYS

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EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

CONFIDENTIAL

EXHIBIT C

Field Data - Third Quarter, 1996

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

July 11, 1996

FILE NO: 72986

LAB NO: 6192191600

SAMPLE: On 07/01/96 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

July 11, 1996

FILE NO: 72986

LAB NO: 6192191600

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Ql	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Lab Manager

cc: Pacific Energy Systems, Attn: Vicki Castle

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 7/2/96

INSPECTION REPORT

CLIMATE: bright, clear, fog | cloudy, overcast, rain | <32° F, 33°-55°, 56°-70° | 71°-85°, 86°-100°, >100° F | mild, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: What a beautiful Day! Not much smog... Mountains could be seen clearly. No detection of wind according to an electronic wind speed indicator. OVA instrument used in monitor was the FOXBORO 128 last calibrated by Robert McAllister on 7-2-96 at 8:00 AM. Contractor followed path 'A'. Monitor began at 9:15 AM and concluded at 10:50 AM. There were No Detections found during monitor. Last rain reported was over two weeks ago.

☐ REINSPECTION REQUIRED

Robert mc allister
INSPECTOR

PRINCIPAL

JS40075 4/15/94

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

August 13, 1996

AUG 16 1996

FILE NO: 72986

LAB NO: 6226111501

SAMPLE: On 07/17/96 at 15:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

August 13, 1996

FILE NO: 72986

LAB NO: 6226111501

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Ammat Imam
Lab Manager

cc: Pacific Energy Systems, Attn: Vicki Castle

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 7/29/96

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI
ISS: Integrated Surface Samples
PPS: Perimeter Probe Samples
TSI: Treatment System Inlet

CONTRACTOR(S): ROBERT McAllister

REMARKS: HOT! HOT! HOT! - Bright Sunshine with overcast. Electronic wind speed indicator did not reveal any wind. Last precipitation was over one month ago.

The OVA instrument used was the FOXBORO 128 last calibrated by Robert McAllister on 7/29/96 at 7:35 Am. The toc meter used was a Natural Gas Indicator model npl-204 last calibrated by J.G Tucker and Son on 2-13-96. The H_2S tests were done with a Drager Pump and Drager tubes. The ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JS40075 4/15/94

SHEET OF

001694

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 7/29/96

REMARKS CONTINUED:

All samples were collected in 10-liter Tedlar Bags and placed in a Black trash bag for protection from Sunlight.

The TSI sample was collected at 9:07am and tested for TOC at 43% and H_2S at 115 ppm. The ISS 46 was collected at 9:41 AM. and tested for H_2S at ND and OVA at ND. The ISS 47 was collected at 10:18 am and tested for OVA at ND and H_2S at ND. The PPS #5 was collected at 10:54 AM and tested for H_2S ND and TOC at ND.

Robert McAllister
INSPECTOR

PRINCIPAL

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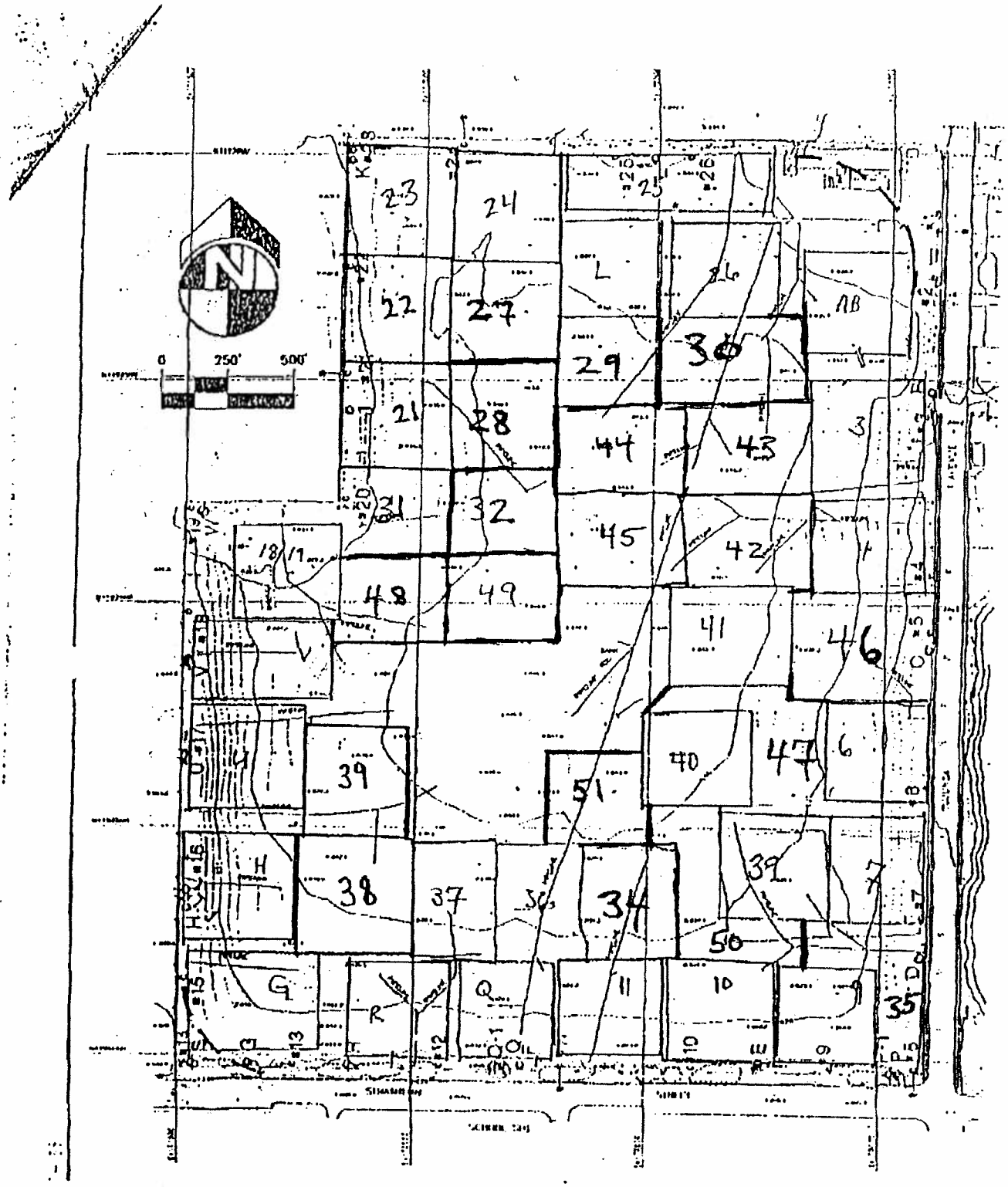

SEPICH ASSOCIATES
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-0321
FAX: (818) 707-3012 (805) 373-0987

PENROSE LANDFILL

INTEGRATED SURFACE SAMP

SAMPLING DATE _____ SAMPLER _____ SHEET

001696

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 7-27-96

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS: RM

TIME:

INSTRUMENT:

PARAMETER:

REMARKS: ACT!! OVERCAST - NO WIND
TSI - 9:07 Am
ISS 46 - 9:41 Am
ISS 47 - 10:18 Am
PPS #5 - 10:54 Am

PROBE #	TOC	H_2S
1		
2 A		
3 A		
4 A		
5 A	ND	ND
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		
TSI	43%	115ppm

PROBE #							
A-1					10'		
B				R	40'		
C	GREEN-21'				80'		
	YELLOW-41'				120'		
	ORANGE-61'				10'		
	RED - 81'			S	40'		
D					80'		
E					120'		
F					10'		
G				T	40'		
J-1					73'		
K-1				T-1	72'		
L	GREEN-45'				10'		
	YELLOW-65'			U	37'		
	ORANGE-85'				68'		
	RED - 105'				10'		
N	GREEN-22'			V	40'		
	YELLOW-45'				73'		
	ORANGE-68'				10'		
	RED - 90'				40'		
P	10'			W	80'		
	40'				120'		
	80'				158'		
P-1	120'						
Q	10'			~~TSI~~		OUT	H_2S
	40'						
	75'				ISS 46	ND	ND
Q-1	120'				ISS 47	ND	ND
	158'						

3617 E. THOUSAND OAKS BLVD. #303 W. LAKE VILLAGE, CA. 91362 TEL (818)707-3038 FAX (818)707-3
HANE SPECIALISTS

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

August 13, 1996

FILE NO: 70237

LAB NO: 6226111100

SAMPLE: On 08/01/96 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

August 13, 1996

FILE NO: 70237

LAB NO: 6226111100

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Ql	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Azmat Imam
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 8/6/96

INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	86°-100°	still	dry
clear	overcast	33°-55°	>100° F	breeze	moderate
fog	rain	56°-70°		wind	humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: NICE WEATHER. Slight overcast of clouds with a small Southerly breeze. The electronic wind speed indicator received a 2.7 mph wind velocity. The OVA instrument used in monitor was the FOXBORO 128 last calibrated on 8-6-96 by Robert McAllister at 7:28 AM

The monitor began at 10:20 am. and concluded by 12:05 pm with a result of ND. Last recorded precipitation was over one month ago. Contractor followed PATH 'B'.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

IS-0075 4/15/94

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 8/22/96

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: TSI, ISS, PPS

CONTRACTOR(S): ROBERT M'Allister

REMARKS: HOT! Clear skies and little evidence of SMOG. GREAT DAY, GREAT VISIBILITY OF THE MOUNTAINS. According to an electronic wind speed indicator, NO WIND. The last precipitation recorded was over one month ago.

The OVA instrument used in the testing of ISS samples was the FOXBORO 128 last calibrated on 9/28/96 at 7:30 AM, by Robert M'Allister. H_2S tests were done with Dräger tubes and a Dräger Pump. The TOC instrument used in testing TSI and PPS sample was a Natural Gas Indicator model npL-28

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE -

JOB No. J152-6

DATE 8/22/96

REMARKS CONTINUED:

last calibrated on 2-13-96 by J.G. Tucker and Son. All air samples were collected in 10-liter Tedlar Bags and placed in a Black Trash bag for protection from Sunlight. The integrated surface samples were collected by a portable self contained with its own internal power supply, which collected samples at 400 cc/min.

The ISS #48 was collected at 8:44 AM with test results of OVA (ND) and H_2S (ND). The ISS #49 was collected at 9:21 AM with test results of OVA (ND) and H_2S (ND). The PPS #19 was collected at 9:53 AM with test results of TOC (ND) and H_2S (ND). The TSI sample was collected at 10:20 AM with test results of TOC (44%) and H_2S (110 ppm.)

Robert Mallitz
INSPECTOR

PRINCIPAL

SHEET OF

001702

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 8-22-96

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS HOT - Clear - No wind -
TIME	No CLOUDS - GREAT DAY
INSTRUMENT	ISS #48 - 8:44 AM
PARAMETER	ISS #49 - 9:21 AM
	PPS #9 - 9:53 AM
	10:20 AM - TSI

PROBE #	TOC	H_2S
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19	ND	ND
20		
21 A		
22		
23		
24		
25		
26		

PROBE #						TOC	H_2S
A-1				R	10'		
B					40'		
C	GREEN-21'				80'		
	YELLOW-41'				120'		
	ORANGE-61'			S	10'		
	RED - 81'				40'		
D					80'		
E					120'		
F				T	10'		
G					40'		
J-1					73'		
K-1				T-1	72'		
L	GREEN-45'			U	10'		
	YELLOW-65'				37'		
	ORANGE-85'				68'		
	RED - 105'			V	10'		
N	GREEN-22'				40'		
	YELLOW-45'				73'		
	ORANGE-68'			W	10'		
	RED - 90'				40'		
P	10'				80'		
	40'				120'		
	80'				158'		
P-1	120'						
Q	10'			TSI		44%	110 ppm
	40'						
	75'					DUA	H_2S
Q-1	120'				ISS 48	ND	ND
	158'				ISS 49	ND	ND

HANE SPECIALISTS

001703

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	8-22-96

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
J-152 6	8 22 96	8:42 Am	C	1	ISS #48	✓	✓	✓						
J-152 6	8 22 96	9:21 Am	C	1	ISS #49	✓	✓	✓						
J152 6	8 22 96	9:53 Am	G	1	PPS 19	✓	✓							
J-152 6	8 22 96	10:20 Am	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BI-PRODUCTS	8:22 AM	
RECEIVED BY:	[illegible]	SAC SCIENCE	8/22/96	1425
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				

CONFIDENTIAI

(467)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	8/23/96

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4				Fixed GAS	TOC	REMARKS
J152-6			G	1	TSI	✓	✓					✓		

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	[illegible]	L.P. By Markets	8/23/96	12:30
RECEIVED BY:	Dennis Latest	CALSCIENCE	8/23/96	1235
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:	Dennis Latest	CALSCIENCE	8/23/96	1325
RECEIVED BY:	Joe Rammacia	Calscience	8/23/96	1325

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

RECEIVED
SEP 20 1996
L.A. BY-PROD. CO.

Pacific Energy Systems
Attn: Vicki Castle
633 West 5th Street
Los Angeles, CA 90071-2006

September 18, 1996

FILE NO: 70237

LAB NO: 6260162301

SAMPLE: On 08/30/96 at 11:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

September 18, 1996

FILE NO: 70237

LAB NO: 6260162301

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	1.0	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	1.0			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Azmat Imam
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 9/5/96

INSPECTION REPORT

CLIMATE: (bright) clear fog cloudy overcast rain | <32° F 33°-55° 56°-70° 71°-85° 86°-100° >100° F | (still) breeze wind | dry ~~moderate~~ humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: BRIGHT sunshine with slightly hazy Skies. created a perfect day for monitoring. The electronic wind speed indicator reported ND. Last reported rainfall was over one month ago. OVA METER used in monitor was the FOXBORO 128, last calibrated by Robert McAllister at 7:40 AM, 9-5-96.

Contractor began monitor at 8:44 AM and concluded at 10:30 AM with a result of ND. Contractor followed path 'A'.

The TSI sample was collected at 10:44 AM in a Tedlar

☐ REINSPECTION REQUIRED

Robert mcallister
INSPECTOR

PRINCIPAL

001703

IS-2075 1/15/94

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6

DATE 9/5/96

REMARKS CONTINUED:

Ten Liter bag. Sample was tested with TOC meter result 44% and H_2S at 110 ppm. TOC meter used was a Natural Gas Indicator model ngi-204 last calibrated by J.G. Tucker and Son. The H_2S tests were done with a Dräger Pump and Dräger tubes. The air sample was placed in a Black trash bag for protection from Sunlight.

Robert McAllister
INSPECTOR

PRINCIPAL

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 9-5-96

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	RM
TIME	
INSTRUMENT	
PARAMETER	

REMARKS

WARM - Beautiful DAY - Hazy Sky
No WIND
10:44 AM

PROBE #			
1			
2 A			
3 A			
4 A			
5 A			
6 A			
7 A			
8 A			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21 A			
22			
23			
24			
25			
26			

PROBE #							
A-1			R	10'			
B				40'			
C	GREEN-21'			80'			
	YELLOW-41'			120'			
	ORANGE-61'		S	10'			
	RED - 81'			40'			
D				80'			
E				120'			
F			T	10'			
G				40'			
J-1				73'			
K-1			T-1	72'			
L	GREEN-45'		U	10'			
	YELLOW-65'			37'			
	ORANGE-85'			68'			
	RED - 105'		V	10'			
N	GREEN-22'			40'			
	YELLOW-45'			73'			
	ORANGE-68'		W	10'			
	RED - 90'			40'			
P	10'			80'			
	40'			120'			
	80'			158'			
P-1	120'				H_2S	TOC	
Q	10'		TSI		110ppm	44g	
	40'						
	75'						
Q-1	120'						
	158'						

...HANE SPECIALISTS

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

September 18, 1996

RECEIVED
SEP 20 1996
L.A. BY-PROD CO

FILE NO: 72986

LAB NO: 6260163101

SAMPLE: On 09/12/96 at 13:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

September 18, 1996

FILE NO: 72986

LAB NO: 6260163101

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	1.0	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Azmat Imam
Lab Manager

cc: Pacific Energy Systems, Attn: Vicki Castle

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 9/27/96

INSPECTION REPORT

CLIMATE: bright, clear, fog, (cloudy) overcast, rain | <32° F, 33°-55°, 56°-70°, (71°-85°), 86°-100°, >100° F | still, (breeze), wind | dry, (moderate), humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was cool with thick cloud cover, almost FOGGY. An electronic wind speed indicator detected a slight breeze of 2 mph. from the South. Last recorded precipitation was over one month ago.

The TOC meter used in tests was a Natural Gas Indicator model npl-204 last calibrated by J.G. Tucker and Son on 2-13-96. The OVA instrument used in tests was the FOXBORO 128 last calibrated by Robert McAllister on 9-27-96 at 7:45 AM. The H_2S tests were done with a Dräger pump and dräger tubes. The ISS samples

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

IS-0075 4/15/94

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. J152-6

DATE 9/27/96

REMARKS CONTINUED:

were collected with a portable self-contained unit with its own power supply, which collected samples at 400 cc/min. All samples were collected in 10-liter Tedlar Bags and placed in a Black Trash bag for protection from Sunlight.

The ISS #50 sample was collected at 9:21 AM and tested for H_2S (ND) and OVA (ND). The ISS #51 sample was collected at 9:57 AM and tested for H_2S (ND) and OVA (ND). The PPS P 10' was collected at 10:30 AM and tested for TOC (ND) and H_2S (ND). The TSI sample was collected at 11:11 AM and tested for H_2S (110 ppm) and TOC (44%).

Robert McAllister
INSPECTOR

PRINCIPAL

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 9-27-90

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS Cloudy [illegible] Slight South Breeze
TIME	9:21 Am ISS 50
INSTRUMENT	9:57 Am ISS 51
	10:30 Am PPS 10'
PARAMETER	11:11 Am TSI

PROBE #		
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		

PROBE #						
A-1			R	10'		
B			R	40'		
C	GREEN-21'		R	80'		
C	YELLOW-41'		R	120'		
C	ORANGE-61'		S	10'		
C	RED - 81'		S	40'		
D			S	80'		
E			S	120'		
F			T	10'		
G			T	40'		
J-1			T	73'		
K-1			T-1	72'		
L	GREEN-45'		U	10'		
L	YELLOW-65'		U	37'		
L	ORANGE-85'		U	68'		
L	RED - 105'		V	10'		
N	GREEN-22'		V	40'		
N	YELLOW-45'		V	73'		
N	ORANGE-68'		W	10'		
N	RED - 90'		W	40'		
P	10'		W	80'		
P	40'		W	120'		
P	80'		W	158'		
P-1	120'				TOC	H_2S
Q	10'		TSI		44%	100 ppm
Q	40'					
Q	75'				OVA	H_2S
Q-1	120'			ISS 50	ND	ND
Q-1	158'			ISS 51	ND	ND

HANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #300 W. AKE VILLAGE, CA. 91362 TEL (818)707-3000 FAX (818)707-3

CONFIDENTIA

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

October 2, 1996

FILE NO: 72986

LAB NO: 6275194200

SAMPLE: On 09/30/96 at 09:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

October 2, 1996

FILE NO: 72986

LAB NO: 6275194200

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site O	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	5.0	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	10.0	@ 40'	ND
@ 75'	ND			@ 80'	5.0	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	12.0	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Inorganic Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

EXHIBIT D

Laboratory Analytical Results - Third Quarter, 1996

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

LA By Products/Sepich & Associates, Inc.	Date Sampled:	07/29/96
3617 East Thousand Oaks Blvd., #303	Date Received:	07/29/96
West Lake Village, CA 91362	Date Analyzed:	08/01/96
	Work Order No.:	96-07-494
Attn: Robert McAllister/Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI-Plant Inlet		
Oxygen plus Argon	10900	1000
Nitrogen	162000	1000
Methane	389000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	465000	1000
TGNMO	468	1
Sample Number: ISS-46		
Methane	2	1
TGNMO	ND	1
Sample Number: ISS-47		
Methane	2	1
TGNMO	ND	1

001719

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-750

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

LA By Products/Sepich & Associates, Inc.	Date Sampled:	07/29/96
3617 East Thousand Oaks Blvd., #303	Date Received:	07/29/96
West Lake Village, CA 91362	Date Analyzed:	08/01/96
	Work Order No.:	96-07-494
Attn: Robert McAllister/Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: PPS-#5		
Methane	2	1
TGNMO	ND	1
Sample Number: Method Blank		
Oxygen plus Argon	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
TGNMO	ND	1

001720

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

LA By Products/Sepich & Associates, Inc. 3617 East Thousand Oaks Blvd., #303 West Lake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	07/29/96 07/29/96 08/01/96
Attn: Robert McAllister/Alex Feucht RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 3 of 3	96-07-494 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: TSI-Plant Inlet (Duplicate)				
Oxygen plus Argon	10900	9920	9	0 - 25
Nitrogen	162000	159000	2	0 - 25
Methane	389000	394000	1	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	465000	471000	1	0 - 25
TGNMO	468	451	4	0 - 25

Reviewed and Approved _____ on 08/07/1996
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

LA By Products/Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., #303
West Lake Village, CA 91362

Date Sampled: 07/29/96
Date Received: 07/29/96
Date Analyzed: 07/31/96

Work Order No.: 96-07-494
Method: EPA TO-14/1150.1 LIST

Attn: Robert McAllister/Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: TSI-Plant Inlet

Analyte	Concentration	Reportable Limit
Vinyl Chloride	2450	800
Acetonitrile	ND	800
1,1-Dichloroethene	ND	800
Methylene Chloride	ND	800
1,1-Dichloroethane	ND	800
Chloroform	ND	800
1,2-Dichloroethane	ND	800
1,1,1-Trichloroethane	ND	800
Benzene	8620	800
Carbon Tetrachloride	ND	800
Trichloroethene	ND	800
Toluene	23400	800
Tetrachloroethene	1060	800
Chlorobenzene	ND	800
Total Xylenes	27400	1120
Benzyl Chloride	ND	800
1,3-Dichlorobenzene	ND	800
1,4-Dichlorobenzene	ND	800
1,2-Dichlorobenzene	ND	800

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

LA By Products/Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., #303
West Lake Village, CA 91362

Date Sampled: 07/29/96
Date Received: 07/29/96
Date Analyzed: 07/31/96

Work Order No.: 96-07-494
Method: EPA TO-14/1150.1 LIST
Page 2 of 5

Attn: Robert McAllister/Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS-46

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	0.6	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	3	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	0.8	0.5
Benzene	3.8	0.5
Carbon Tetrachloride	0.8	0.5
Trichloroethene	ND	0.5
Toluene	7.5	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	3.6	0.7
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	21.7	0.5
1,2-Dichlorobenzene	ND	0.5

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

LA By Products/Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., #303
West Lake Village, CA 91362

Date Sampled: 07/29/96
Date Received: 07/29/96
Date Analyzed: 07/31/96

Work Order No.: 96-07-494
Method: EPA TO-14/1150.1 LIST
Page 3 of 5

Attn: Robert McAllister/Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS-47

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	4	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	1.3	0.5
Benzene	5.7	0.5
Carbon Tetrachloride	1.1	0.5
Trichloroethene	ND	0.5
Toluene	8.9	0.5
Tetrachloroethene	0.7	0.5
Chlorobenzene	ND	0.5
Total Xylenes	3.6	0.7
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	19.3	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

LA By Products/Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., #303
West Lake Village, CA 91362

Date Sampled: 07/29/96
Date Received: 07/29/96
Date Analyzed: 07/31/96

Work Order No.: 96-07-494
Method: EPA TO-14/1150.1 LIST
Page 4 of 5

Attn: Robert McAllister/Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: PPS-#5

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	3	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	0.7	0.5
Benzene	9.2	0.5
Carbon Tetrachloride	1.3	0.5
Trichloroethene	ND	0.5
Toluene	13.4	0.5
Tetrachloroethene	0.8	0.5
Chlorobenzene	ND	0.5
Total Xylenes	5.2	0.7
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	22.7	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

LA By Products/Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., #303
West Lake Village, CA 91362

Date Sampled: 07/29/96
Date Received: 07/29/96
Date Analyzed: 07/31/96

Work Order No.: 96-07-494
Method: EPA TO-14/1150.1 LIST

Attn: Robert McAllister/Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	ND	0.5
Carbon Tetrachloride	ND	0.5
Trichloroethene	ND	0.5
Toluene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	ND	0.7
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Reviewed and Approved _____ on 08/02/1996
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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QUALITY ASSURANCE SUMMARY

Method EPA TO-14/1150.1 LIST

LA By Products/Sepich & Associates, Inc. | Work Order No.: 96-07-494
Page 1 of 1 | Date Analyzed: 07/31/96

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Benzene	132	133	60 - 140	1	0 - 30
Bromoform	106	112	60 - 140	6	0 - 30
Carbon Tetrachloride	123	122	60 - 140	1	0 - 30
1,2-Dibromoethane	114	119	60 - 140	4	0 - 30
1,4-Dichlorobenzene	111	112	60 - 140	1	0 - 30
1,2-Dichloroethane	130	129	60 - 140	1	0 - 30
1,2-Dichloropropane	130	135	60 - 140	4	0 - 30
cis-1,3-Dichloropropene	123	127	60 - 140	3	0 - 30
Tetrachloroethene	127	133	60 - 140	5	0 - 30
1,1,2-Trichloroethane	124	120	60 - 140	3	0 - 30
Trichloroethene	143*	144*	60 - 140	1	0 - 30
Vinyl Chloride	114	120	60 - 140	5	0 - 30

*Out of range.

Reviewed and approved: William H. Christensen on 08/07/1996
William H. Christensen
Deliverables Manager

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(494)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	7-29-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
J152-6	7-29-96	9:07 AM	G	1	TSI - Plant INLET	✓	✓						✓	
J152-6	7-29-96	9:41 AM	C	1	ISS 46	✓	✓	✓						
J152-6	7-29-96	10:18 AM	C	1	ISS 47	✓	✓	✓						
J152-6	7-29-96	10:54 AM	G	1	PPS - #5	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCT CO.	7-29-96	
RECEIVED BY:	Rey [illegible]	CALSCIENCE	7-29-96	1543
RELINQUISHED BY:	Rey [illegible]	CALSCIENCE	7-29-96	1440
RECEIVED BY:	[illegible] Ramnarai	Calscience	7-29-96	1440
RELINQUISHED BY:				
RECEIVED BY:				

001708

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ANALYTICAL REPORT

Los Angeles By Products c/o John Sepich Associates 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362		Date Sampled: Date Received: Date Analyzed:	08/22/96 08/22/96 08/23/96
Attn: Alex Feucht RE: Penrose Landfill/J152-6		Work Order No.: Method: Page 1 of 2	96-08-446 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS #48

Analyte	Concentration	Reportable Limit
Methane	1	1
TGNMO (as Methane)	9	1

Sample Number: ISS #49

Methane	1	1
TGNMO (as Methane)	13	1

Sample Number: PPS #19

Methane	1	1
TGNMO (as Methane)	6	1

Sample Number: Method Blank

Methane	ND	1
TGNMO (as Methane)	ND	1

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ANALYTICAL REPORT

Los Angeles By Products
c/o John Sepich Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 08/22/96
Date Received: 08/22/96
Date Analyzed: 08/23/96

Work Order No.: 96-08-446
Method: EPA TO-14/1150.1 LIST
Page 1 of 4

All concentrations are reported in ppb (v/v).

Sample Number: ISS #48

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	3.0	0.5
Benzene	5.5	0.5
Carbon Tetrachloride	1.4	0.5
Toluene	11.5	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	2.2	0.5
Chlorobenzene	ND	0.5
Total Xylenes	8.8	1.2
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	24.0	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

Los Angeles By Products
c/o John Sepich Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 08/22/96
Date Received: 08/22/96
Date Analyzed: 08/23/96

Work Order No.: 96-08-446
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: ISS #49

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	3.9	0.5
Benzene	5.1	0.5
Carbon Tetrachloride	1.4	0.5
Toluene	9.5	0.5
Trichloroethene	0.5	0.5
Tetrachloroethene	1.7	0.5
Chlorobenzene	ND	0.5
Total Xylenes	6.9	1.2
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	21.9	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

Los Angeles By Products		Date Sampled:	08/22/96
c/o John Sepich Associates		Date Received:	08/22/96
3617 East Thousand Oaks Blvd., Suite 303		Date Analyzed:	08/24/96
Westlake Village, CA 91362			
		Work Order No.:	96-08-446
Attn: Alex Feucht		Method:	EPA TO-14/1150.1 LIST
RE: Penrose Landfill/J152-6		Page 3 of 4	

All concentrations are reported in ppb (v/v).

Sample Number: PPS 19

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	3.2	0.5
Benzene	5.3	0.5
Carbon Tetrachloride	1.5	0.5
Toluene	10.4	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	1.8	0.5
Chlorobenzene	ND	0.5
Total Xylenes	7.3	1.2
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	30.9	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

Los Angeles By Products
c/o John Sepich Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 08/22/96
Date Received: 08/22/96
Date Analyzed: 08/23/96

Work Order No.: 96-08-446
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	ND	0.5
Carbon Tetrachloride	ND	0.5
Toluene	ND	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	ND	1.2
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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QUALITY ASSURANCE SUMMARY

Method EPA TO-14/1150.1 LIST

Los Angeles By Products/John Sepich Associates
Page 1 of 1

Work Order No.: 96-08-446
Date Analyzed: 08/23/96

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Benzene	121	120	60 - 140	1	0 - 30
Bromoform	117	96	60 - 140	20	0 - 30
Carbon Tetrachloride	119	122	60 - 140	2	0 - 30
1,2-Dibromoethane	121	109	60 - 140	10	0 - 30
1,4-Dichlorobenzene	114	109	60 - 140	4	0 - 30
1,2-Dichloroethane	126	122	60 - 140	3	0 - 30
1,2-Dichloropropane	122	121	60 - 140	1	0 - 30
cis-1,3-Dichloropropene	119	112	60 - 140	6	0 - 30
Tetrachloroethene	124	118	60 - 140	5	0 - 30
1,1,2-Trichloroethane	122	115	60 - 140	6	0 - 30
Trichloroethene	130	128	60 - 140	2	0 - 30
Vinyl Chloride	127	131	60 - 140	3	0 - 30

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(446)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	8-22-96

CHAIN OF CUSTODY RECORD

SHEET 1 OF

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
J-152 6	8-22 96	8:42 Am	C	1	ISS #48	✓	✓	✓						
J-152 6	8-22 96	9:21 Am	C	1	ISS #49	✓	✓	✓						
J152 6	8-22 96	9:53 Am	G	1	PPS 19	✓	✓							
J152 6	8-22 96	10:20 Am	G	1	TSI	✓	✓						✓	Hold per Robert McAllister 8/22/96

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS	8:22 AM	
RECEIVED BY:	Dennis Robert	CAL SCIENCE	8/22/96	1425
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:	Dennis Robert	CAL SCIENCE	8/22/96	1650
RECEIVED BY:	Angel McKay	CAL SCIENCE	8-27-96	10:50

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ANALYTICAL REPORT

Los Angeles By Products c/o John Sepich Associates 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	08/23/96 08/23/96 08/23/96
Attn: Alex Feucht RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 1 of 2	96-08-467 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Oxygen plus Argon	4130	1000
Nitrogen	98300	1000
Methane	409000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	504000	1000
TGNMO (as Methane)	471	1

Sample Number: Method Blank

Oxygen plus Argon	ND	1000
Nitrogen	ND	1000
Methane	ND	1
Carbon Monoxide	ND	1
Carbon Dioxide	ND	1
TGNMO (as Methane)	ND	1

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ANALYTICAL REPORT

Los Angeles By Products c/o John Sepich Associates 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	08/23/96 08/23/96 08/23/96
Attn: Alex Feucht RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 1 of 2	96-08-467 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Sample Number: 96-08-446-4 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen plus Argon	9750	9270	5	0 - 25
Nitrogen	109000	108000	1	0 - 25
Methane	402000	403000	1	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	491000	491000	0	0 - 25
TGNMO (as Methane)	432	434	1	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

Los Angeles By Products
c/o John Sepich Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 08/23/96
Date Received: 08/23/96
Date Analyzed: 08/26/96

Work Order No.: 96-08-467
Method: EPA TO-14/1150.1 LIST
Page 1 of 2

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	680	250
Acetonitrile	ND	250
1,1-Dichloroethene	ND	250
Methylene Chloride	ND	250
1,1-Dichloroethane	ND	250
Chloroform	ND	250
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	250
Benzene	1740	250
Carbon Tetrachloride	ND	250
Toluene	16900	250
Trichloroethene	ND	250
Tetrachloroethene	480	250
Chlorobenzene	1550	250
Total Xylenes	18800	350
Benzyl Chloride	ND	250
1,3-Dichlorobenzene	ND	250
1,4-Dichlorobenzene	ND	250
1,2-Dichlorobenzene	ND	250

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ANALYTICAL REPORT

Los Angeles By Products
c/o John Sepich Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 08/23/96
Date Received: 08/23/96
Date Analyzed: 08/26/96

Work Order No.: 96-08-467
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	0.5
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	ND	0.5
Carbon Tetrachloride	ND	0.5
Toluene	ND	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	ND	0.7
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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QUALITY ASSURANCE SUMMARY

Method EPA TO-14/1150.1 LIST

Los Angeles By Products/John Sepich Associates
Page 1 of 1

Work Order No.: 96-08-467
Date Analyzed: 08/26/96

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Benzene	113	114	60 - 140	1	0 - 30
Bromoform	85	88	60 - 140	3	0 - 30
Carbon Tetrachloride	107	110	60 - 140	3	0 - 30
1,2-Dibromoethane	91	94	60 - 140	4	0 - 30
1,4-Dichlorobenzene	89	94	60 - 140	5	0 - 30
1,2-Dichloroethane	108	109	60 - 140	1	0 - 30
1,2-Dichloropropane	108	116	60 - 140	7	0 - 30
cis-1,3-Dichloropropene	102	102	60 - 140	0	0 - 30
Tetrachloroethene	103	105	60 - 140	2	0 - 30
1,1,2-Trichloroethane	95	96	60 - 140	1	0 - 30
Trichloroethene	128	128	60 - 140	0	0 - 30
Vinyl Chloride	98	103	60 - 140	5	0 - 30

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(467)

JOB NAME: PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES

FILE (JOB#): J152-6

DATE: 8/23/96

CHAIN OF CUSTODY RECORD

SHEET 1 OF

SAMPLE TAKEN BY:

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4				Fixed Gas	TOC	REMARKS
J152-6			G	1	TSI	✓	✓					✓		

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	[signature]	W.D. BY Products	8/23/96	12:30
RECEIVED BY:	[signature]	CALSCIENCE	8/23/96	1235
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:	[signature]	CALSCIENCE	8/23/96	1325
RECEIVED BY:	[signature]	Calscience	8/23/96	1325

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates		Date Sampled:	09/27/96
3617 East Thousand Oaks Blvd., Suite 303		Date Received:	09/27/96
Westlake Village, CA 91362		Date Analyzed:	09/28/96
		Work Order No.:	96-09-451
Attn: Robert McAllister		Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6		Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reportable Limit
Sample Number: ISS #50		
Methane	1	1
TGNMO	6	1
Sample Number: ISS #51		
Methane	1	1
TGNMO	4	1
Sample Number: PPS P 10'		
Methane	ND	1
TGNMO	17	1
Sample Number: TSI		
Oxygen plus Argon	0.5*	0.1
Nitrogen	15.8*	0.1
Methane	37.7*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	46*	0.1
TGNMO	393	1

* Reported in percent (%) by volume.

00174

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	09/27/96
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	09/27/96
Westlake Village, CA 91362	Date Analyzed:	09/28/96
	Work Order No.:	96-09-451
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v) unless otherwise noted.

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Oxygen plus Argon	ND*	0.1
Nitrogen	ND*	0.1
Methane	ND*	0.1
Carbon Monoxide	ND*	0.1
Carbon Dioxide	ND*	0.1
TGNMO	ND	1

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	RPD	Control Limits (%)
Oxygen plus Argon	0.5*	0.5*	0	0 - 25
Nitrogen	15.8*	15.8*	0	0 - 25
Methane	37.7*	37.7*	0	0 - 25
Carbon Monoxide	ND*	ND*	NA	0 - 25
Carbon Dioxide	46*	46*	0	0 - 25
TGNMO	393	403	2	0 - 25

* Reported in percent (%) by volume.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 09/27/96
Date Received: 09/27/96
Date Analyzed: 09/28/96

Work Order No.: 96-09-451
Method: EPA TO-14/1150.1 LIST
Page 1 of 5

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS #50

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	0.8	0.5
Benzene	0.6	0.5
Carbon Tetrachloride	ND	0.5
Toluene	40.8	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	4.4	0.5
Chlorobenzene	ND	0.5
Total Xylenes	3.2	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	7.2	0.5
1,2-Dichlorobenzene	ND	0.5

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L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 09/27/96
Date Received: 09/27/96
Date Analyzed: 09/28/96

Work Order No.: 96-09-451
Method: EPA TO-14/1150.1 LIST

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS #51

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	0.7	0.5
Benzene	2.8	0.5
Carbon Tetrachloride	ND	0.5
Toluene	57.5	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	3.2	0.5
Chlorobenzene	ND	0.5
Total Xylenes	3.0	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	5.4	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 09/27/96
Date Received: 09/27/96
Date Analyzed: 09/29/96

Work Order No.: 96-09-451
Method: EPA TO-14/1150.1 LIST

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: PPS P 10'

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	0.9	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	1.0	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	4.9	0.5
Benzene	1.3	0.5
Carbon Tetrachloride	ND	0.5
Toluene	34.8	0.5
Trichloroethene	0.6	0.5
Tetrachloroethene	6.2	0.5
Chlorobenzene	ND	0.5
Total Xylenes	1.5	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 09/27/96
Date Received: 09/27/96
Date Analyzed: 09/29/96

Work Order No.: 96-09-451
Method: EPA TO-14/1150.1 LIST

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	4.0
Acetonitrile	ND	8.0
1,1-Dichloroethene	ND	4.0
Methylene Chloride	ND	16.0
1,1-Dichloroethane	ND	4.0
Chloroform	ND	4.0
1,2-Dichloroethane	ND	4.0
1,1,1-Trichloroethane	10.3	4.0
Benzene	ND	4.0
Carbon Tetrachloride	ND	4.0
Toluene	21.3	4.0
Trichloroethene	ND	4.0
Tetrachloroethene	5.3	4.0
Chlorobenzene	ND	4.0
Total Xylenes	ND	12.0
Benzyl Chloride	ND	4.0
1,3-Dichlorobenzene	ND	4.0
1,4-Dichlorobenzene	ND	4.0
1,2-Dichlorobenzene	ND	4.0

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 09/27/96
Date Received: 09/27/96
Date Analyzed: 09/28/96

Work Order No.: 96-09-451
Method: EPA TO-14/1150.1 LIST

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2.0
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	ND	0.5
Carbon Tetrachloride	ND	0.5
Toluene	ND	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	ND	1.5
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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QUALITY ASSURANCE SUMMARY

Method EPA TO-14/1150.1 List

L.A. By Products/Sepich & Associates
Page 1 of 1

Work Order No.: 96-09-451
Date Analyzed: 09/28/96

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Benzene	114	114	60 - 140	0	0 - 30
Bromoform	124	116	60 - 140	7	0 - 30
Carbon Tetrachloride	133	138	60 - 140	4	0 - 30
1,2-Dibromoethane	127	124	60 - 140	2	0 - 30
1,4-Dichlorobenzene	121	125	60 - 140	3	0 - 30
1,2-Dichloroethane	129	127	60 - 140	2	0 - 30
1,2-Dichloropropane	130	134	60 - 140	3	0 - 30
cis-1,3-Dichloropropene	128	134	60 - 140	4	0 - 30
Tetrachloroethene	140	138	60 - 140	1	0 - 30
1,1,2-Trichloroethane	129	133	60 - 140	3	0 - 30
Trichloroethene	113	115	60 - 140	2	0 - 30
Vinyl Chloride	87	100	60 - 140	14	0 - 30

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(1451)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	9-27-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4			Fixed Gas		~~TPHG~~	REMARKS
J152-6	9-27-96	9:21 Am	C	1	ISS #50	✓	✓	✓						
J152-6	9-27-96	9:57 Am	C	1	ISS #51	✓	✓	✓						
J152-6	9-27-96	10:30 Am	G	1	PPS P 10'	✓	✓							
J152-6	9-27-96	11:11 Am	G	1	TSI	✓	✓				✓			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS CO.	9-27-96	1240
RECEIVED BY:	[illegible]	CALSCIENCE ENVIRO LAB	9-27-96	1240
RELINQUISHED BY:	[illegible]	CALSCIENCE ENVIRO LAB	9-27-96	1605
RECEIVED BY:	Joe Rammrain.	Calscience	9-27-96	1628
RELINQUISHED BY:				
RECEIVED BY:				

001751

EXHIBIT E

Laboratory Analytical Results - Source Test, 1996

(Inlet only)

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 E. Thousand Oaks Blvd. #303
Westlake Village, CA 91362

Date Sampled: 09/05/96
Date Received: 09/05/96
Date Analyzed: 09/08/96

Work Order No.: 96-09-058
Method: EPA TO-14/1150.1 LIST
Page 1 of 2

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	1400	800
Acetonitrile	ND	800
1,1-Dichloroethene	ND	800
Methylene Chloride	ND	3000
1,1-Dichloroethane	ND	800
Chloroform	ND	800
1,2-Dichloroethane	ND	800
1,1,1-Trichloroethane	ND	800
Benzene	9400	800
Carbon Tetrachloride	ND	800
Toluene	19400	800
Trichloroethene	ND	800
Tetrachloroethene	4100	800
Chlorobenzene	1800	800
Total Xylenes	22100	1900
Benzyl Chloride	ND	800
1,3-Dichlorobenzene	ND	800
1,4-Dichlorobenzene	ND	800
1,2-Dichlorobenzene	ND	800

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 E. Thousand Oaks Blvd. #303
Westlake Village, CA 91362

Date Sampled: 09/05/96
Date Received: 09/05/96
Date Analyzed: 09/08/96

Work Order No.: 96-09-058
Method: EPA TO-14/1150.1 LIST

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.5
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	2
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Benzene	ND	0.5
Carbon Tetrachloride	ND	0.5
Toluene	ND	0.5
Trichloroethene	ND	0.5
Tetrachloroethene	ND	0.5
Chlorobenzene	ND	0.5
Total Xylenes	ND	0.7
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

00175

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	09/05/96
3617 E. Thousand Oaks Blvd. #303	Date Received:	09/05/96
Westlake Village, CA 91362	Date Analyzed:	09/06/96
	Work Order No.:	96-09-058
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Oxygen plus Argon	4850	1000
Nitrogen	128000	1000
Methane	391000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	476000	1000
TGNMO	438	1
Sample Number: Method Blank		
Oxygen plus Argon	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
TGNMO	ND	1

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	09/05/96
3617 E. Thousand Oaks Blvd. #303	Date Received:	09/05/96
Westlake Village, CA 91362	Date Analyzed:	09/06/96
	Work Order No.:	96-09-058
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Sample Number: 96-09-041-1 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	RPD	Control Limits
Oxygen plus Argon	153000	155000	1	0 - 25
Nitrogen	786000	786000	0	0 - 25
Methane	ND	ND	NA	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	60500	58800	2	0 - 25
TGNMO	26	28	7	0 - 25

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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QUALITY ASSURANCE SUMMARY

Method EPA TO-14/1150.1 List

L.A. By Products/Sepich & Associates
Page 1 of 1

Work Order No.: 96-09-058
Date Analyzed: 09/06/96

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Benzene	124	124	60 - 140	0	0 - 30
Bromoform	103	103	60 - 140	0	0 - 30
Carbon Tetrachloride	119	115	60 - 140	3	0 - 30
1,2-Dibromoethane	112	111	60 - 140	1	0 - 30
1,4-Dichlorobenzene	103	109	60 - 140	6	0 - 30
1,2-Dichloroethane	124	124	60 - 140	0	0 - 30
1,2-Dichloropropane	111	104	60 - 140	6	0 - 30
cis-1,3-Dichloropropene	112	108	60 - 140	4	0 - 30
Tetrachloroethene	127	125	60 - 140	2	0 - 30
1,1,2-Trichloroethane	112	105	60 - 140	6	0 - 30
Trichloroethene	115	110	60 - 140	4	0 - 30
Vinyl Chloride	83	81	60 - 140	2	0 - 30

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(058)

JOB NAME: PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES

FILE (JOB#): J152-6

DATE: 9-5-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	[redacted]			Fixed Gas		[redacted]	REMARKS
J152-6	9-5-96	10:44 AM	G	1	TSI	✓	✓				✓			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LA BYPRD	9-5-96	1240
RECEIVED BY:	[illegible]	CALSCIENCE	9-5-96	1240
RELINQUISHED BY:	[illegible]	CALSCIENCE	9-5-96	1655
RECEIVED BY:	Joe Ramnarain	Calscience	9-5-96	1655
RELINQUISHED BY:				
RECEIVED BY:				

001357

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Sepich Associates Inc.

METHANE SPECIALISTS

3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362

TEL (818) 707-3036
(805) 373-9321

FAX (818) 707-3012
(805) 373-8987

July 19, 1996

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

RECEIVED
JUL 23 1996
L.A. BY-PROD. CO.

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Second Quarter, 1996
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the eleventh quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period April through June 1996. In compliance with the SCAQMD Rule 1150. permit, this first quarter report contains information required on an annual bases (see Section A.6 of this report).

Monitoring and sampling for this report was performed on April 4, 15, and 17, May 1, 7, 9, and 23, and June 4, 7, 20, and 24, 1996.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on May 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements. Rule 1150.1 also requires simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes

with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a maps showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas

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sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, April through June 1996, field monitoring was conducted on April 4, 15, and 17, May 7, 9, and 23, and June 4, 7, 20, and 24. Perimeter probe, integrated surface, and power plant inlet samples were collected for laboratory analysis on May 1 , May 23, and June 24, 1996. Weather conditions delayed some April monitoring and sampling until May 1, 1996 (see Exhibit C).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on April 4, April 17, May 7, May 23, June 4, and June 20, 1996 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 48 hours of sampling.

Perimeter probe sampling was conducted at Probe # V at 40' on May 1, at Probe K-1 on May 23, and at Probe # 22 on June 24, 1996. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

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B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on May 1, May 23, and June 24, 1996, by focusing sampling efforts in zones where TOC surface sampling had not previously been conducted. During instantaneous surface monitoring, no areas had TOC readings (greater than non-detect) in April, May, or June. Traverse grids for ISS sampling were selected to fill in areas that had not previously been sampled. On May 1 Areas 42 and 43 were sampled (see Integrated Surface Sampling Map in Exhibit A -- note that this quarter's ISS map includes many grids traversed for this Rule 1150.1 compliance program), in on May 23, Areas 44 and 45 were sampled, and on June 24, Areas 31 and 32 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. The ISS field monitoring results for the Second Quarter TOC and H_2S concentrations were all non-detect.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring Path B was traversed on April 15 and June 7, and Path A was traversed on May 9, 1996. In April, May, and June no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling

10-liter bag samples were collected from the Pacific Energy (PE) electrical generation plant inlet pipeline on May 1, May 23, and June 24, 1996. TOC was monitored with a recently calibrated GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were last collected on May 9, 1995 and results were reported in the second quarter 1995 report.

B.6 Reporting Requirements

This is the eleventh in a series of quarterly reports and the second quarterly report for Penrose Landfill for 1996. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

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C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring had been performed bi-monthly by Positive Lab Service. After April 1994, their early (to mid-) month data was used to select the monthly probe sampling stations and their (mid to) late-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

April 17, 1996 perimeter probe monitoring results indicated 1% TOC from Probe at 10 feet. All other probes registered non-detect (ND). Probe V at 40' was sampled on May 1, 1996.

Table I - April 1996
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBE SAMPLED ON
May 1, 1996

Probe Number	Depth (feet)	Field Value 4/17/96 (% Vol)	Field Value 5/1/96 (% Vol)	Lab Results 5/1/96 (% Vol)	Follow-up Field Value 5/7/96 (% Vol)
V	40	ND	0.13	0.00005	ND

Note: Laboratory samples were collected 5/1/96. Field values are volume percent TOC.

ND None detected.

May 7, 1996 perimeter probe monitoring results indicated 1% TOC from Probe Q at 40 feet. All other probe readings were non-detect. Probe K-1 was sampled on May 23, 1996. Analytical results from the May 23, 1996 sample recorded 3 parts per million (ppm) methane.

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Table II - May 1996
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
ON May 23, 1996

Probe Number	Depth (feet)	Field Value 5/7/96 (% Vol)	Field Value 5/23/96 (% Vol)	Lab Result 5/23/96 (% Vol)	Follow-up Field Value 6/4/96 (% Vol)
K-1	18	ND	ND	<0.0003	ND

Note: Laboratory samples were collected 5/23/96. Laboratory results are volume percent of methane. Field values are volume percent TOC.

June 4, 1996 perimeter probe monitoring results indicated 1% TOC from Probe Q at 40 feet. All other probe readings were non-detect. Probe #22 was sampled on June 24, 1996. Analytical results from the June 24, 1996 sample was 2 parts per million (ppm) methane.

Table III - June 1996
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
ON June 24, 1996

Probe Number	Depth (feet)	Field Value 6/4/96 (% Vol)	Field Value 6/24/96 (% Vol)	Lab Result 6/24/96 (% Vol)	Follow-up Field Value (% Vol)
22	3	ND	ND	0.018	NA

Note: Laboratory samples were collected 6/24/96. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NA Not available.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" volatile organic compounds (VOC) by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

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Table IV - SECOND QUARTER 1996
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
5/1/96 AREA # 42	1	<1
5/1/96 AREA # 43	2	<1
5/23/96 AREA # 44	2.2	11
5/23/96 AREA # 45	3.1	17
6/24/96 AREA # 31	<3.4	<17
6/24/96 AREA # 32	<3.4	17

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibit A).

< Less than the detection limit given.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Second Quarter of 1996.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 42.4% methane on May 1, 44% methane on May 23, and 44% methane on June 24, 1996. Dreager tube analytical results were 95 ppm H_2S on May 1, 105 ppm H_2S on May 23, and 118 ppm H_2S on June 24, 1996. Analytical results for fixed gases, NMHC, and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

SCAQMD source test sampling has not yet been conducted for 1996. When it is scheduled, LA By-Products Company will sample from an inlet containing Penrose gas only. Source test samples are from the mixture of landfill gas from Penrose, Sheldon, and Bradley landfills, that is being burned at the plant. The analytical results from the samples collected for source testing in 1996 will be reported in the subsequent quarterly report.

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C.6 Report Requirements

This report constitutes the 1996, Second Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

Compliance endeavors enacted by Los Angeles By-Products Company and Pacific Energy in the past several years include:

- Mitigation well program in the Spring of 1994;
- Geosynthetic clay liner (GCL) placement in Third Quarter, 1995 (including revised and improved gas collection system, see Gas Collection System map in Exhibit A); and
- Replacement probe installation in Fourth Quarter, 1996.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
JUN 30 2000
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.611/atf

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Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Ms. Tania Weaver

Enclosures:

- EXHIBIT A: Penrose Landfill Maps
  - Probe Location Map
  - Integrated Surface Sampling Map
  - Traverse Maps
  - Gas Collection System Map
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Second Quarter, 1996
- EXHIBIT D: Laboratory Analytical Results - Second Quarter, 1996

EXHIBIT A - Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

Gas Collection System Map

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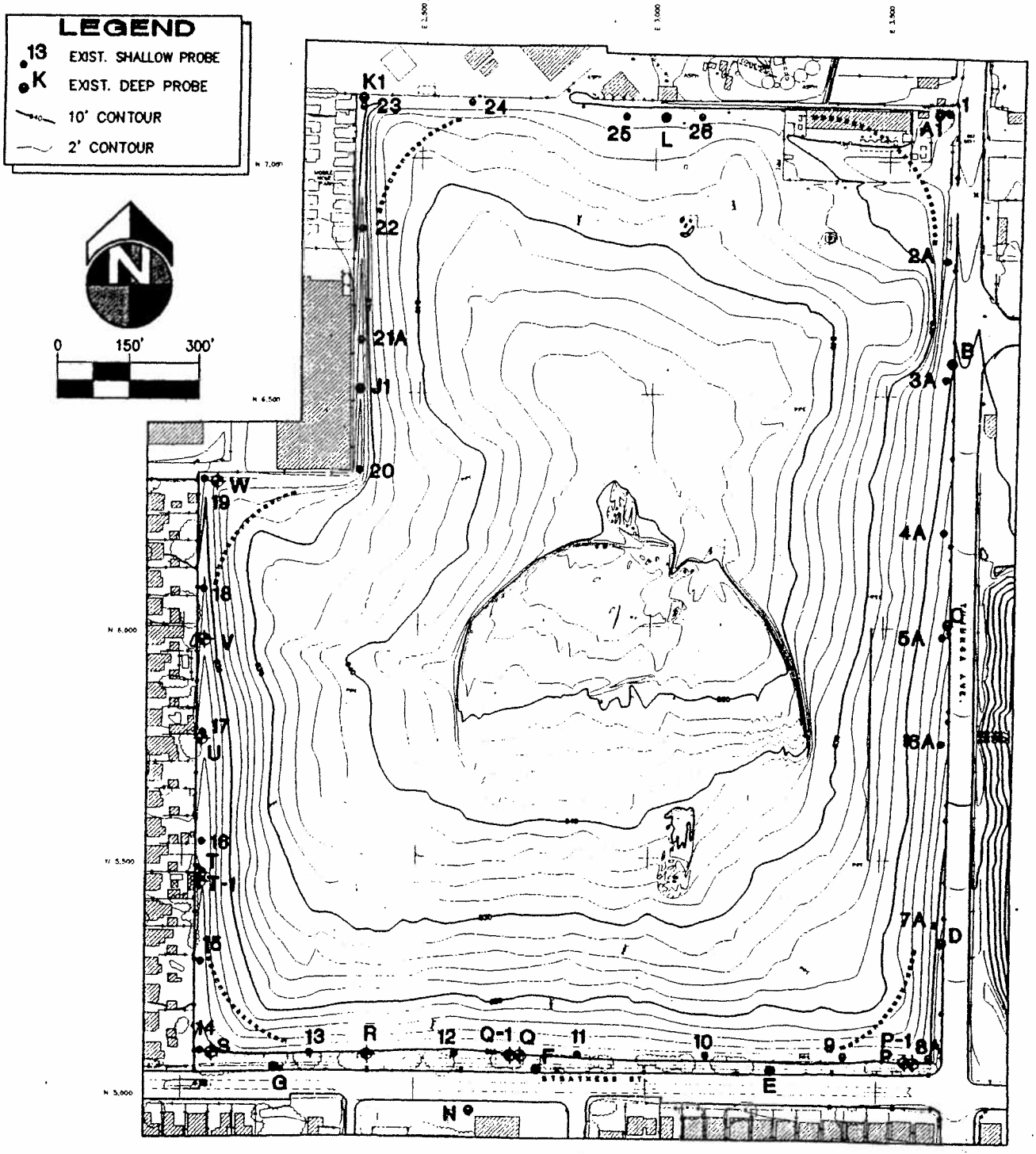
PENROSE LANDFILL
MONITORING PROBE LOCATIONS



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CIVIL ENGINEERS
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WASTE AND
GAS CONTROL
SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

4-22-96 PMAP-LOG

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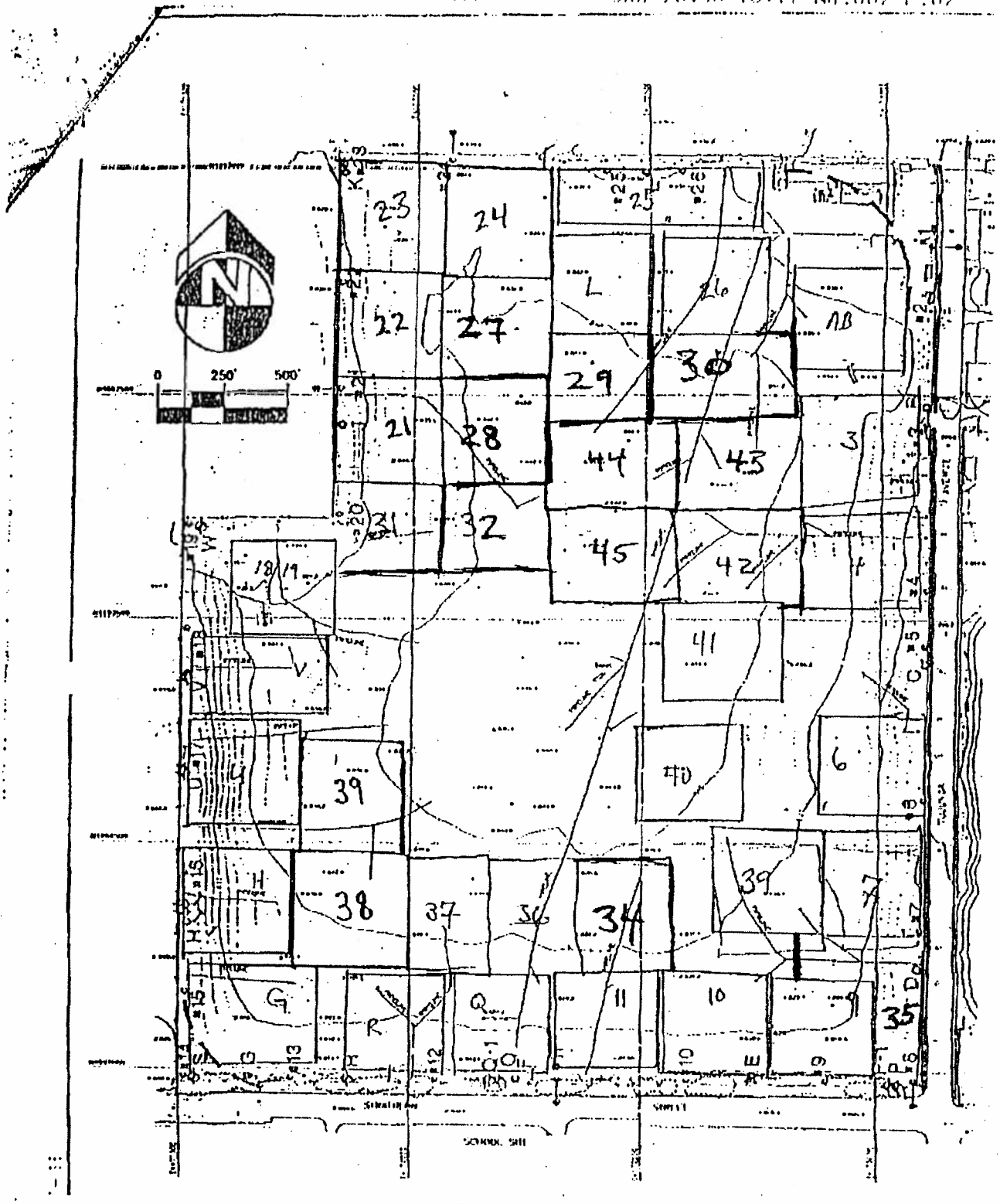

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PENROSE LANDFILL

INTEGRATED SURFACE SAMP

SAMPLING DATE _____ SAMPLER _____ SHEET ____

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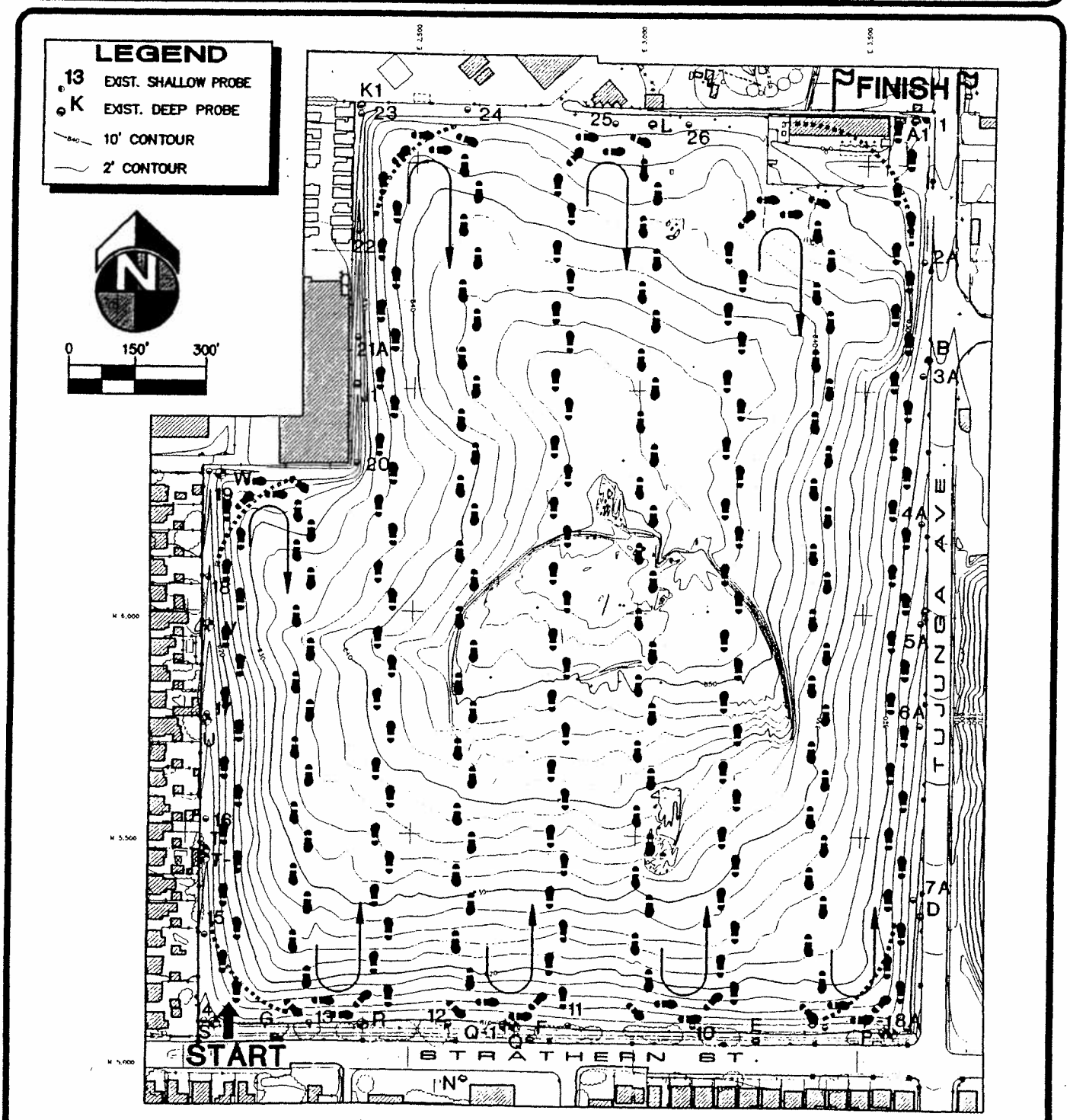
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH A

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4-26-96 J152PATH

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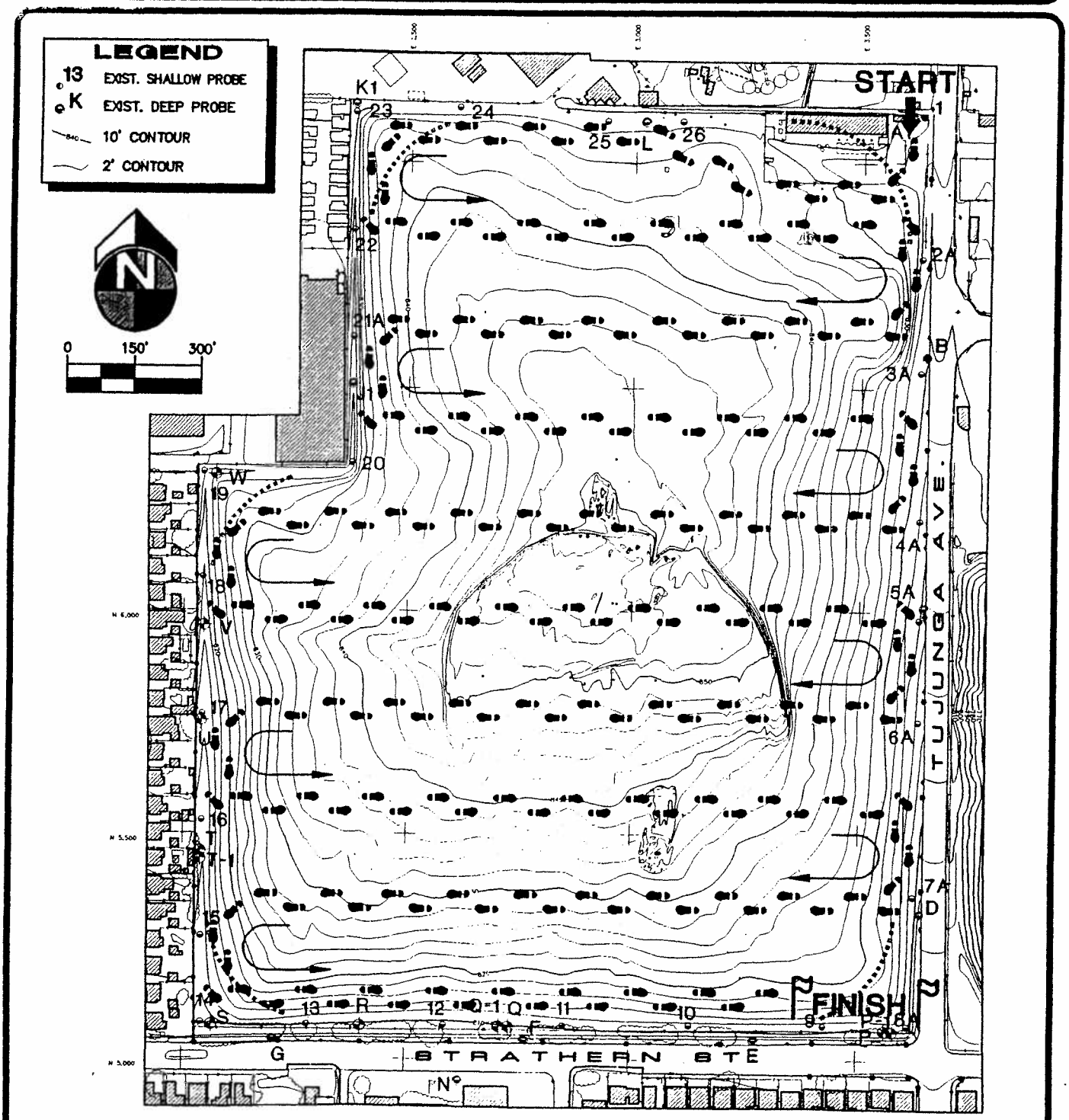
PENROSE LANDFILL
INSTANTANEOUS SURFACE MONITORING



PATH B

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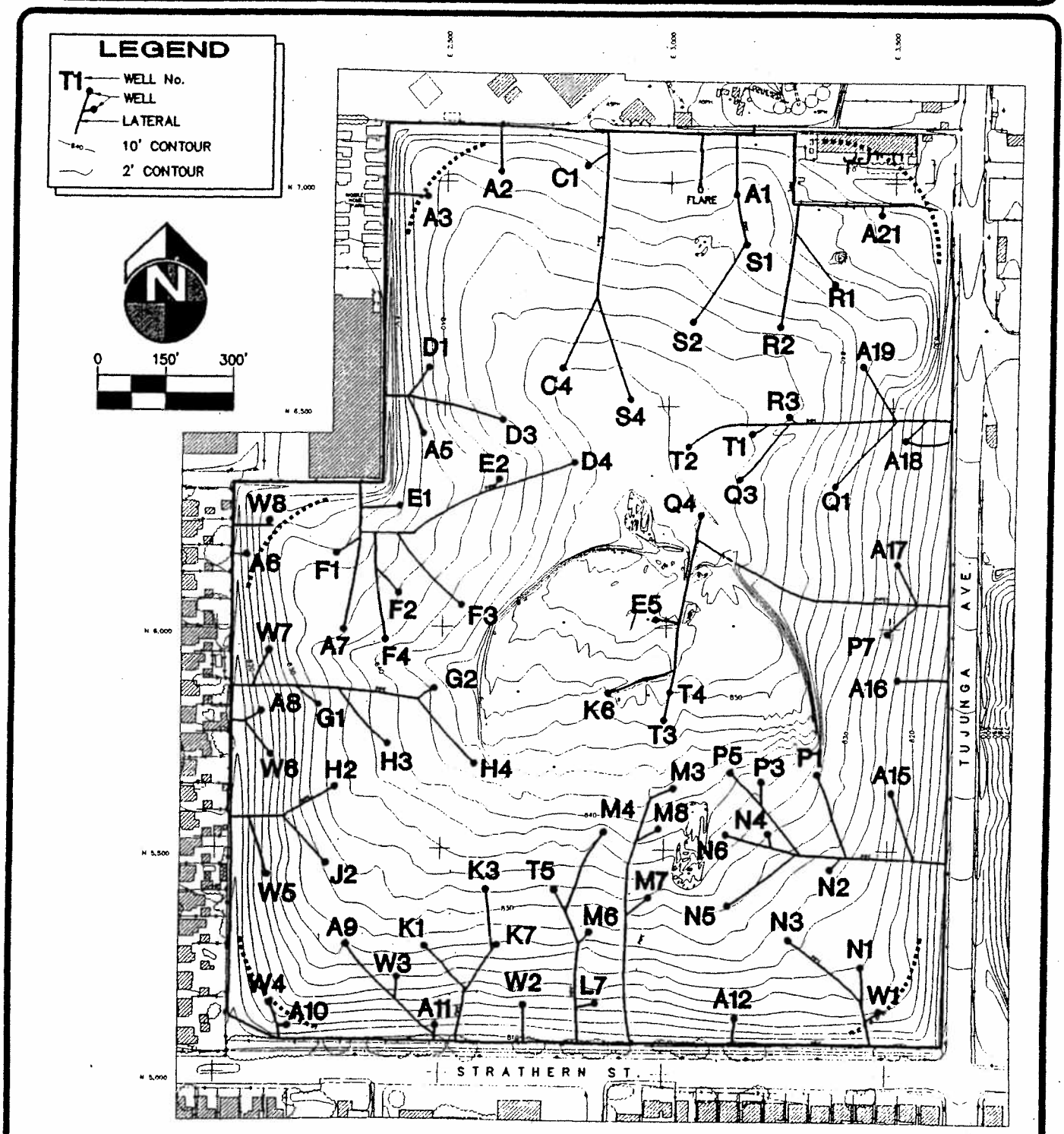
PENROSE LANDFILL GAS COLLECTION SYSTEM



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4-23-96 WELL-SYS

EXHIBIT B

Core Group Toxic Air Contaminants

1. Acetonitrile CH_3CH
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1-Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2-Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1-Dichloroethene (Vinylidene Chloride) $CH_2{:}CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C{:}CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1-Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichlorethylene $CHCl{:}CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2{:}CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Second Quarter, 1996

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

April 16, 1996

RECEIVED
APR 18 1996
L.A. BY-PROD. CO.

FILE NO: 72986

LAB NO: 6107112600

SAMPLE: On 04/04/96 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

April 16, 1996

Page 2

FILE NO: 72986

LAB NO: 6107112600

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site O	Percent Methane	(6) Site O1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

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WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 04/15/96

INSPECTION REPORT

CLIMATE: bright, clear, fog, ~~cloudy~~, overcast, rain; <32° F, 33°-55°, 56°-70°, ~~71°-85°~~, 86°-100°, >100° F; ~~still~~, breeze, wind; dry, ~~moderate~~, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS Surface MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was pleasant with high clouds. The electronic wind speed indicator did not pick up any detection of wind. OVA instrument used in monitor was a FOXBORO 128 last calibrated on 4/15/96 at 7:38 pm by Robert McAllister. Monitor began at 9:17 Am and finished by 11:05 AM, there were No Detections on the monitor. Pathway taken by contractor was "PATH 'B'. Last precipitation was over three weeks ago.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET __ OF __

001778

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

April 24, 1996

RECEIVED
MAY 03 1996
L.A. BY-PROD. CO.

FILE NO: 70237

LAB NO: 6114103100

SAMPLE: On 04/17/96 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "II" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

April 24, 1996

Page 2

FILE NO: 70237

LAB NO: 6114103100

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	1.0
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 5/1/96

INSPECTION REPORT

CLIMATE: bright, cloudy, ~~rain~~, overcast, fog | <32° F, ~~71-85°~~, 33°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was cool, blue skies and a slight .3 to 1.7 mph. wind according to an electronic wind speed indicator. Last precipitation was over one month ago.

The OVA instrument used was the FOXBORO 128 last calibrated on 5/1/96 at 7:20 AM by Robert McAllister. The TOC meter used was a Natural Gas Indicator model npl-204 last calibrated by J.G. Tucker and Son on 2-13-96. The H_2S tests were done with Drager Pump and Drager tubes. ISS samples were collected by a portable self-contained unit

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

ISI-FORM 4/15/94

SHEET OF

001781

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9121
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

J 152-6
5 1 96

REMARKS CONTINUED:

with its own internal power supply, which collected samples at 400 cc/min. All samples were collected in 10-liter Tedlar Bags and placed into a Black trash bag for protection against Sunlight.

ISS 42 was collected at 9:05 am and tested for OVA and H_2S resulting in ND for both tests. ISS 43 was collected at 9:27 Am and tested for OVA and H_2S resulting in ND for both tests. The TSI was collected at 10:00 Am and tested for H_2S at 95 ppm and TOC at 44%. The PPS V was collected at 10:48 AM and tested for TOC at .3% and H_2S at No Detection.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 5-1-96

JOB No.: J-152-6

GAS CONCENTRATIONS

INITIALS	REMARKS
TIME	ISS 42 9:05 Am
INSTRUMENT	ISS 43 9:27 Am
	TSI 10:00 Am
PARAMETER	PPS ✓ 10:48 AM

PROBE #	TOC	OVA
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		
ISS 42	ND	ND
ISS 43	ND	ND

PROBE #						H2S	TOC
	A-1			R	10'		
	B				40'		
C	GREEN-21'				80'		
	YELLOW-41'				120'		
	ORANGE-61'			S	10'		
	RED - 81'				40'		
	D				80'		
	E				120'		
	F			T	10'		
	G				40'		
	J-1				73'		
	K-1			T-1	72'		
L	GREEN-45'			U	10'		
	YELLOW-65'				37'		
	ORANGE-85'				68'		
	RED - 105'			V	10'		
N	GREEN-22'				40'	ND	.03%
	YELLOW-45'				73'		
	ORANGE-68'			W	10'		
	RED - 90'				40'		
P	10'				80'		
	40'				120'		
	80'				158'		
P-1	120'						
Q	10'			TSI		95 ppm	44%
	40'						
	75'						
Q-1	120'						
	158'						

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POSITIVE LAB SERVICE

701 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 747-6372

RECEIVED JUN 03 1996 L.A. BY-PROD. CO.

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

May 29, 1996

FILE NO: 72986

LAB NO: 6145162700

SAMPLE: On 05/07/96 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

May 29, 1996

Page 2

FILE NO: 72986

LAB NO: 6145162700

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	1.0	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 5/9/96

INSPECTION REPORT

CLIMATE: (bright) cloudy clear (overcast) fog rain | <32° F (1°-32°) 33°-55° 86°-100° 56°-70° >100° F | (still) breeze wind | (dry) moderate humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Today was Really DRY and hot, with High cloud cover. Electronic wind speed indicator detected No wind. Last precipitation was over one month ago. The OVA instrument used was the FOXBORO 128 last calibrated on 5/9/96 at 8:30 Am by Robert McAllister. Contractor followed PATH 'A' and found No Detections of any GAS. Contractor began monitor at 9:15 Am and finished at 11:45 AM.

☐ REINSPECTION REQUIRED

Robert m allister
INSPECTOR

PRINCIPAL

SHEET__OF__

001786

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J-152-6

DATE 5/23/96

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was warm with clear skies and No Detectable wind by an electronic wind speed indicator. Last recorded precipitation was over one month ago.

The OVA instrument used was the FOXBORO 128 last calibrated on 5/9/96 at 8:30 AM by ROBERT McAllister. The TOC instrument used was a Natural GAS Indicator model npl-204 last calibrated by J.G. Tucker and Son on 2-13-96. The H_2S tests were done with Drager Pump and Drager tubes. ISS samples were collected by a portable

☐ REINSPECTION REQUIRED

Robert mc allister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME
Penrose

J152-6
5 23 96

REMARKS CONTINUED:

self-contained unit with its own power supply, which collected samples at 400 cc/min. All samples were collected in 10-liter Tedlar bags and placed into a Black trash bag for protection against sunlight.

ISS 44 was collected at 8:28 am and tested for OVA and H_2S with No Detections. ISS 45 was collected at 9:11 Am and tested for H_2S and OVA with No Detections. PPS K was collected at 9:49 AM and tested for TOC and H_2S with No Detections. The TSI was collected at 10:30 AM and tested for TOC at 45% and H_2S at 105 ppm.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

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CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 5/23/96

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS ISS 44 8:28 Am
TIME	ISS 45 9:11 Am.
INSTRUMENT	PPS K 9:44 Am
PARAMETER	TSI 10:30 Am.

PROBE #	OVA	TOC
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		
ISS 45	ND	ND
ISS 44	ND	ND

PROBE #		TOC	H_2S
	A-1		
	B		
C	GREEN-21'		
C	YELLOW-41'		
C	ORANGE-61'		
C	RED - 81'		
	D		
	E		
	F		
	G		
	J-1		
	K-1	ND	ND
L	GREEN-45'		
L	YELLOW-65'		
L	ORANGE-85'		
L	RED - 105'		
N	GREEN-22'		
N	YELLOW-45'		
N	ORANGE-68'		
N	RED - 90'		
P	10'		
P	40'		
P	80'		
P-1	120'		
Q	10'		
Q	40'		
Q	75'		
Q-1	120'		
Q-1	158'		

		TOC	H_2S
R	10'		
R	40'		
R	80'		
R	120'		
S	10'		
S	40'		
S	80'		
S	120'		
T	10'		
T	40'		
T	73'		
T-1	72'		
U	10'		
U	37'		
U	68'		
V	10'		
V	40'		
V	73'		
W	10'		
W	40'		
W	80'		
W	120'		
W	158'		
TSI		45%	105 ppm

HANE SPECIALISTS

001789

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

June 4, 1996

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FILE NO: 70237

LAB NO: 6145185201

SAMPLE: On 05/23/96 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

June 4, 1996

Page 2

FILE NO: 70237

LAB NO: 6145185201

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

June 28, 1996

FILE NO: 72986

LAB NO: 6180135500

SAMPLE: On 06/04/96 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

June 20, 1996

Page 2

FILE NO: 72986

LAB NO: 6180135500

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site O1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	1.0	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Lab Manager

cc: Pacific Energy Systems, Attn: Vicki Castle

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J752-6

DATE 6/7/96

INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71-85	still		dry	
clear	overcast	33°-55°	86°-100°	breeze		~~moderate~~	
fog	rain	56°-70°	>100° F	wind		humid	

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was Nice, overcast clouds, warm and no detection of wind according to an electronic Wind Speed Indicator. OVA instrument used in monitor was a FOXBORO 128 last calibrated by Robert McAllister at 7:25 pm. on 6-7-96. Monitor began at 9:00 am and was completed at 11:05 am. There were No Detections found during monitor. Contractor followed Path 'B'. Last recorded precipitation was over one month ago.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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001794

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

June 28, 1996

FILE NO: 70237

LAB NO: 6180134900

SAMPLE: On 06/20/96 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Gastle
6055 East Washington Blvd.
Commerce, CA 90040

June 28, 1996

Page 2

FILE NO: 70237

LAB NO: 6180134900

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Ql	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Frances Fernando
Lab Manager

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 6/24/96

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain

<32° F / 71°-85° / 33°-55° / 86°-100° / 56°-70° / >100° F

still / breeze / wind

dry / moderate / humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: There was bright sunshine with overcast clouds making the weather quite warm. There was no detectable wind according to an electronic wind speed indicator. Last recorded precipitation was over one month ago.

The OVA instrument used in monitor was a FOXBORO 128 last calibrated on 6-24-96 at 7:35 am by Robert McAllister. The TOC meter used was a Natural Gas Indicator model npl-204 last calibrated by J. G. Tucker and Son on 2-13-96. The H_2S tests were

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8917

JOB NAME PENROSE

J152-6
6 24 96

REMARKS CONTINUED:

done with a Drager Pump and Drager tubes. The ISS samples were collected with a portable self-contained unit with its own internal power supply, which collected samples at 400 cc/min. All samples were collected in 10-liter Tedlar Bags and placed in a Black trash bag for protection from sunlight.

ISS 31 was collected at 9:30 AM and tested for OVA and H_2S resulting in ND for both tests. ISS 32 was collected at 10:15 AM and tested for OVA and H_2S resulting in ND for both tests. PPS 22 was collected at 10:50 AM and tested for TOC and H_2S resulting in ND for both. The TSI sample was collected at 11:30 AM and tested for TOC at 44 % and H_2S at 118 ppm.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

001793

CONFIDENTIAL

J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 6-24-96

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS
TIME	ISS 31 - 9:30 Am
INSTRUMENT	ISS 32 - 10:15 Am PPS 22 - 10:50 Am
PARAMETER	TSI . T 11:30 Am.

PROBE #	TOC	H_2S
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22	ND	ND
23		
24		
25		
26		

PROBE #						TOC	H_2S
A-1				R	10'		
B					40'		
C	GREEN-21'				80'		
	YELLOW-41'				120'		
	ORANGE-61'			S	10'		
	RED - 81'				40'		
D					80'		
E					120'		
F				T	10'		
G					40'		
J-1					73'		
K-1				T-1	72'		
L	GREEN-45'			U	10'		
	YELLOW-65'				37'		
	ORANGE-85'				68'		
	RED - 105'			V	10'		
N	GREEN-22'				40'		
	YELLOW-45'				73'		
	ORANGE-68'			W	10'		
	RED - 90'				40'		
P	10'				80'		
	40'				120'		
	80'				158'		
P-1	120'						
Q	10'			TSI		44%	118ppm
	40'						
	75'					OVA	H_2S
Q-1	120'				ISS 31	ND	ND
	158'				ISS 32	ND	ND

001799

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QUALITY ASSURANCE SUMMARY

Method EPA TO-14 (1150.1 List)

Los Angeles By Products, c/o John Sepich Assoc., Inc. Work Order No.: 96-06-501
Page 1 of 1 Date Analyzed: 06/29/96

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Bromoform	118	121	60 - 140	3	0 - 30
Carbon Tetrachloride	125	125	60 - 140	1	0 - 30
1,2-Dibromoethane	133	136	60 - 140	2	0 - 30
1,4-Dichlorobenzene	98	87	60 - 140	11	0 - 30
1,2-Dichloroethane	104	102	60 - 140	2	0 - 30
1,2-Dichloropropane	126	130	60 - 140	3	0 - 30
cis-1,3-Dichloropropene	115	118	60 - 140	3	0 - 30
Tetrachloroethene	130	128	60 - 140	2	0 - 30
1,1,2-Trichloroethane	130	133	60 - 140	2	0 - 30
Trichloroethene	116	120	60 - 140	4	0 - 30
Vinyl Chloride	121	120	60 - 140	1	0 - 30

Reviewed and approved: _____ on 07/10/1996
William H. Christensen
Deliverables Manager

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EXHIBIT D

Laboratory Analytical Results - Second Quarter, 1996

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ANALYTICAL REPORT

LA By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 05/01/96
Date Received: 05/01/96
Date Analyzed: 05/02/96

Work Order No.: 96-05-006
Method: EPA TO-14/1150.1 LIST

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: Probe V 40'

Analyte	Concentration	Reportable Limit
Vinyl Chloride	0.4	0.2
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.2
Methylene Chloride	4.3	0.2
1,1-Dichloroethane	0.3	0.2
Chloroform	1.0	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	1.4	0.2
Benzene	2.9	0.2
Carbon Tetrachloride	0.3	0.2
Toluene	5.8	0.2
Trichloroethene	0.5	0.2
Tetrachloroethene	1.1	0.2
Chlorobenzene	1.4	0.2
Total Xylenes	6.7	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	14.4	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

LA By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 05/01/96
Date Received: 05/01/96
Date Analyzed: 05/02/96

Work Order No.: 96-05-006
Method: EPA TO-14/1150.1 LIST

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	1160	160
Acetonitrile	22	8
1,1-Dichloroethene	ND	1.6
Methylene Chloride	ND	1.6
1,1-Dichloroethane	38.0	1.6
Chloroform	ND	1.6
1,2-Dichloroethane	ND	1.6
1,1,1-Trichloroethane	37.4	1.6
Benzene	2410	160
Carbon Tetrachloride	ND	1.6
Toluene	9930	160
Trichloroethene	ND	1.6
Tetrachloroethene	299	1.6
Chlorobenzene	1760	160
Total Xylenes	8400	560
Benzyl Chloride	ND	1.6
1,3-Dichlorobenzene	ND	1.6
1,4-Dichlorobenzene	ND	1.6
1,2-Dichlorobenzene	ND	1.6

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LA By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 05/01/96
Date Received: 05/01/96
Date Analyzed: 05/02/96

Work Order No.: 96-05-006
Method: EPA TO-14/1150.1 LIST

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS 42

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.2
Methylene Chloride	ND	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	1.2	0.2
Benzene	3.5	0.2
Carbon Tetrachloride	0.3	0.2
Toluene	8.6	0.2
Trichloroethene	0.2	0.2
Tetrachloroethene	0.6	0.2
Chlorobenzene	0.2	0.2
Total Xylenes	6.7	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	9.8	0.2
1,2-Dichlorobenzene	ND	0.2

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LA By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 05/01/96
Date Received: 05/01/96
Date Analyzed: 05/02/96

Work Order No.: 96-05-006
Method: EPA TO-14/1150.1 LIST
Page 4 of 6

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS 43

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.2
Methylene Chloride	11.4	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	1.9	0.2
Benzene	3.4	0.2
Carbon Tetrachloride	0.4	0.2
Toluene	10.7	0.2
Trichloroethene	0.6	0.2
Tetrachloroethene	0.8	0.2
Chlorobenzene	0.4	0.2
Total Xylenes	7.0	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

LA By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 05/01/96
Date Received: 05/01/96
Date Analyzed: 05/02/96

Work Order No.: 96-05-006
Method: EPA TO-14/1150.1 LIST
Page 5 of 6

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.2
Methylene Chloride	0.3	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Toluene	ND	0.2
Trichloroethene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	ND	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

LA By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 05/01/96
Date Received: 05/01/96
Date Analyzed: 05/02/96

Work Order No.: 96-05-006
Method: EPA TO-14/1150.1 LIST
Page 6 of 6

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

QA/QC

Sample Number: LCS/LCSD

Analyte	LCS%REC	LCSD%REC	Control Limit	RPD	Control Limit
Benzene	113	112	60 - 140	1	0 - 30
Bromoform	89	94	60 - 140	6	0 - 30
Carbon Tetrachloride	114	114	60 - 140	0	0 - 30
1,2-Dibromoethane	90	95	60 - 140	6	0 - 30
1,4-Dichlorobenzene	101	108	60 - 140	6	0 - 30
1,2-Dichloroethane	110	114	60 - 140	4	0 - 30
1,2-Dichloropropane	109	110	60 - 140	1	0 - 30
Cis-1,3-Dichloropropene	102	105	60 - 140	3	0 - 30
Tetrachloroethene	105	107	60 - 140	2	0 - 30
1,1,2-Trichloroethane	97	95	60 - 140	2	0 - 30
Trichloroethene	118	122	60 - 140	3	0 - 30
Vinyl Chloride	97	94	60 - 140	3	0 - 30

Reviewed and Approved _____ on 05/10/1996
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

LA By Products/Sepich & Associates		Date Sampled:	05/01/96
3617 East Thousand Oaks Blvd., Suite 303		Date Received:	05/01/96
Westlake Village, CA 91362		Date Analyzed:	05/02/96
		Work Order No.:	96-05-006
Attn: Alex Feucht		Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6		Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v), unless otherwise noted.

Sample Number: Probe V 40'

Analyte	Concentration	Reportable Limit
Methane	0.5	0.1
TGNMO	ND	1

Sample Number: TSI

Oxygen plus Argon, % by volume	0.7	0.1
Nitrogen, % by volume	14.5	0.1
Methane , % by volume	42.4	0.1
Carbon Dioxide, % by volume	42.4	0.1
Carbon Monoxide	ND	2
TGNMO	569	1

Sample Number: ISS 42

Methane	1	0.1
TGNMO	ND	1

Sample Number: ISS 43

Methane	1	0.1
TGNMO	ND	1

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ANALYTICAL REPORT

LA By Products/Sepich & Associates	Date Sampled:	05/01/96
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	05/01/96
Westlake Village, CA 91362	Date Analyzed:	05/02/96
	Work Order No.:	96-05-006
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v), unless otherwise noted.

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Oxygen plus Argon, % by volume	ND	0.1
Nitrogen, % by volume	ND	0.1
Methane , % by volume	ND	0.1
Carbon Dioxide, % by volume	ND	0.1
Methane	ND	1
Carbon Monoxide	ND	2
TGNMO	ND	1

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ANALYTICAL REPORT

LA By Products/Sepich & Associates	Date Sampled:	05/01/96
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	05/01/96
Westlake Village, CA 91362	Date Analyzed:	05/02/96
	Work Order No.:	96-05-006
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v), unless otherwise noted.

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen plus Argon, % by volume	0.7	0.7	0	0 - 25
Nitrogen, % by volume	14.5	14.5	0	0 - 25
Methane , % by volume	42.4	42.3	0	0 - 25
Carbon Dioxide, % by volume	42.4	42.5	0	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
TGNMO	569	624	9	0 - 25

Reviewed and Approved _____ on 05/10/1996
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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006

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	5-1-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
PPS V	5-1 96	10:48 Am	G	1	PROBE V 40'	✓	✓							
TSI	5-1 96	10:00 Am	G	1	TSI	✓	✓						✓	
ISS 42	5-1 96	9:05 Am	C	1	ISS 42	✓	✓	✓						
ISS 43	5-1 96	9:27 Am	C	1	ISS 43	✓	✓	✓						

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS CO.	5-1-96	1315
RECEIVED BY:	[illegible]	CALSCIENCE	5-1-96	1315
RELINQUISHED BY:				
RECEIVED BY:	Joe Ramirain	CALSCIENCE	5-1-96	1435
RELINQUISHED BY:				
RECEIVED BY:				

001011

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ANALYTICAL REPORT

Los Angeles By Products
c/o Sepich Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 05/23/96
Date Received: 05/23/96
Date Analyzed: 05/24/96

Work Order No.: 96-05-415
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: ISS 44

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.8
Acetonitrile	ND	4.0
1,1-Dichloroethene	ND	0.8
Methylene Chloride	7.9	0.8
1,1-Dichloroethane	ND	0.8
Chloroform	ND	0.8
1,2-Dichloroethane	ND	0.8
1,1,1-Trichloroethane	1.6	0.8
Benzene	1.8	0.8
Carbon Tetrachloride	ND	0.8
Toluene	8.5	0.8
Trichloroethene	ND	0.8
Tetrachloroethene	1.1	0.8
Chlorobenzene	ND	0.8
Total Xylenes	ND	2.8
Benzyl Chloride	ND	0.8
1,3-Dichlorobenzene	ND	0.8
1,4-Dichlorobenzene	ND	0.8
1,2-Dichlorobenzene	ND	0.8

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ANALYTICAL REPORT

Los Angeles By Products
c/o Sepich Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Fuecht
RE: Penrose Landfill/J152-6

Date Sampled: 05/23/96
Date Received: 05/23/96
Date Analyzed: 05/24/96

Work Order No.: 96-05-415
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: ISS 45

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.2
Methylene Chloride	6.4	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	0.8	0.2
Benzene	1.9	0.2
Carbon Tetrachloride	0.4	0.2
Toluene	9.5	0.2
Trichloroethene	0.4	0.2
Tetrachloroethene	0.9	0.2
Chlorobenzene	0.2	0.2
Total Xylenes	2.8	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	1.6	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

Los Angeles By Products
c/o Sepich Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 05/23/96
Date Received: 05/23/96
Date Analyzed: 05/25/96

Work Order No.: 96-05-415
Method: EPA TO-14/1150.1 LIST
Page 3 of 5

All concentrations are reported in ppb (v/v).

Sample Number: PPS K

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.2
Methylene Chloride	10.2	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	1.1	0.2
Benzene	1.5	0.2
Carbon Tetrachloride	0.4	0.2
Toluene	8.6	0.2
Trichloroethene	0.4	0.2
Tetrachloroethene	0.9	0.2
Chlorobenzene	0.2	0.2
Total Xylenes	2.8	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

Los Angeles By Products
c/o Sepich Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 05/23/96
Date Received: 05/23/96
Date Analyzed: 05/25/96

Work Order No.: 96-05-415
Method: EPA TO-14/1150.1 LIST
Page 4 of 5

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	1500	200
Acetonitrile	ND	1000
1,1-Dichloroethene	700	200
Methylene Chloride	4000	200
1,1-Dichloroethane	ND	200
Chloroform	ND	200
1,2-Dichloroethane	ND	200
1,1,1-Trichloroethane	500	200
Benzene	4000	200
Carbon Tetrachloride	ND	200
Toluene	19300	200
Trichloroethene	400	200
Tetrachloroethene	2100	200
Chlorobenzene	1900	200
Total Xylenes	18300	700
Benzyl Chloride	1300	200
1,3-Dichlorobenzene	ND	200
1,4-Dichlorobenzene	ND	200
1,2-Dichlorobenzene	ND	200

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ANALYTICAL REPORT

Los Angeles By Products
c/o Sepich Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 05/23/96
Date Received: 05/23/96
Date Analyzed: 05/24/96

Work Order No.: 96-05-415
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.2
Methylene Chloride	0.3	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Toluene	ND	0.2
Trichloroethene	ND	0.2
Tetrachloroethene	0.2	0.2
Chlorobenzene	ND	0.2
Total Xylenes	ND	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

Reviewed and Approved _____ on 06/07/1996
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

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QUALITY ASSURANCE SUMMARY

Method EPA TO-14/1150.1 LIST

Los Angeles By Products/Sepich Accociates, Inc.
Page 1 of 1

Work Order No.: 96-05-415
Date Analyzed: 05/24/96

LCS/LCS Duplicate

Analyte	LCS%REC	LCSD%REC	Control Limits	%RPD	Control Limits
Benzene	105	109	60 - 140	4	0 - 30
Bromoform	64	69	60 - 140	8	0 - 30
Carbon Tetrachloride	91	96	60 - 140	5	0 - 30
1,2-Dibromoethane	75	81	60 - 140	8	0 - 30
1,4-Dichlorobenzene	65	62	60 - 140	5	0 - 30
1,2-Dichloroethane	94	99	60 - 140	5	0 - 30
1,2-Dichloropropane	109	114	60 - 140	4	0 - 30
cis-1,3-Dichloropropene	96	101	60 - 140	5	0 - 30
Tetrachloroethene	99	103	60 - 140	4	0 - 30
1,1,2-Trichloroethane	83	91	60 - 140	9	0 - 30
Trichloroethene	126	120	60 - 140	5	0 - 30
Vinyl Chloride	100	111	60 - 140	7	0 - 30

Reviewed and approved: _____ on 06/07/1996
William H. Christensen
Deliverables Manager

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Quanterra

Environmental Services

Quanterra Incorporated
18501 East Gale Avenue #130
City of Industry, California 91748

818 965-1006 Telephone
818 965-1003 Fax

June 3, 1996

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 Lincoln Way
Garden Grove, CA 92641
ATTN: Ms. Tori Arnold

ANALYSIS NO.: 118851-0001/0004-SA
ANALYSIS: Modified SCAQMD Method 25.1 - Non-Condensable
DATE SAMPLED: 05/23/96
DATE SAMPLES REC'D: 05/24/96

PROJECT NO.: 96-05-415

Enclosed with this letter is the report on the chemical and physical analyses for the samples from ANALYSIS NO.: 118851-0001/0004-SA as shown above.

The samples were received by Quanterra Environmental Services, City of Industry, intact and with the chain-of-custody record attached.

Please note that ND means not detected at the reporting limits expressed.

The preliminary results were faxed to Ms. Tori Arnold on May 30, 1996.

for
Val Mallari
Laboratory Manager

6/5/96
Date
Approved

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Quanterra Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Calscience Environmental Laboratories, Inc.

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
118851-0001-SA	ISS 44	AIR	23 MAY 96	08:28	24 MAY 96
118851-0002-SA	ISS 45	AIR	23 MAY 96	09:11	24 MAY 96
118851-0003-SA	PPS K	AIR	23 MAY 96	09:48	24 MAY 96
118851-0004-SA	TSI	AIR	23 MAY 96	10:30	24 MAY 96

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Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: ISS 44
LAB ID: 118851-0001-SA
Matrix: AIR
Authorized: 24 MAY 96
Instrument: GC-1

Sampled: 23 MAY 96
Prepared: N/A
Dilution: 1.0

Received: 24 MAY 96
Analyzed: 24 MAY 96

Parameter	Result	Qualifier	RL	Units
Methane	2.2		2.0	ppm-c
Total Non-Methane Hydrocarbons as Methane	11		10	ppm-c

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Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: ISS 45
LAB ID: 118851-0002-SA
Matrix: AIR
Authorized: 24 MAY 96
Instrument: GC-1

Sampled: 23 MAY 96
Prepared: N/A
Dilution: 1.0

Received: 24 MAY 96
Analyzed: 24 MAY 96

Parameter	Result	Qualifier	RL	Units
Methane	3.1		2.0	ppm-c
Total Non-Methane Hydrocarbons as Methane	17		10	ppm-c

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Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: PPS K
LAB ID: 118851-0003-SA
Matrix: AIR
Authorized: 24 MAY 96
Instrument: GC-1

Sampled: 23 MAY 96
Prepared: N/A
Dilution: 1.0

Received: 24 MAY 96
Analyzed: 24 MAY 96

Parameter	Result	Qualifier	RL	Units
Methane	3.0		2.0	ppm-c
Total Non-Methane Hydrocarbons as Methane	14		10	ppm-c

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Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: TSI
LAB ID: 118851-0004-SA
Matrix: AIR
Authorized: 24 MAY 96
Instrument: GC-1

Sampled: 23 MAY 96
Prepared: N/A
Dilution: 1.0

Received: 24 MAY 96
Analyzed: 24 MAY 96

Parameter	Result	Qualifier	RL	Units
Methane	440000		1000	ppm-c
Total Non-Methane Hydrocarbons as Methane	2500		10	ppm-c

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QC LOT ASSIGNMENT REPORT - MS QC
Air Toxics

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
118851-0001-SA	AIR	SCAQMD-251	24 MAY 96-A1	24 MAY 96-A1	
118851-0002-SA	AIR	SCAQMD-251	24 MAY 96-A1	24 MAY 96-A1	
118851-0003-SA	AIR	SCAQMD-251	24 MAY 96-A1	24 MAY 96-A1	
118851-0004-SA	AIR	SCAQMD-251	24 MAY 96-A1	24 MAY 96-A1	

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Quanterra Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Air Toxics
Project: 118851

Category: SCAQMD-251 Modified SCAQMD 25.1 - Non-Condensable
Matrix: AIR
QC Lot: 24 MAY 96-A1
Concentration Units: ppm-c

Date Analyzed: 24 MAY 96

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average(%) DCS	Limits	Precision (RPD) DCS	Limit
Methane	100	108		106		107	107	80-120	2.5	20
Total Non-Methane Hydrocarbons as Methane	1120	1110		1080		1100	98	80-120	2.0	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

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METHOD BLANK REPORT
Air Toxics
Project: 118851

Test: SCAQMD-25_1-G Method SCAQMD 25.1 Modified - Non-Condensable
Matrix: AIR
QC Run: 24 MAY 96-A1

Date Analyzed: 24 MAY 96

Analyte	Result	Units	Reporting Limit
Methane	ND	ppm-c	2.0
Total Non-Methane Hydrocarbons as Methane	ND	ppm-c	10

ND = Not Detected

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	5-23-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
ISS 44	5-23 96	9:28 Am	C	1	ISS 44	✓	✓	✓						
ISS 45	5-23 96	9:11 Am	C	1	ISS 45	✓	✓	✓						
PPS K	5-23 96	9:49 Am	G	1	PPS K	✓	✓							
TSI	5-23 96	10:30 Am	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES By-Products	5-23-96	1310
RECEIVED BY:	Rey [illegible]	CALSCIENCE	5-23-96	1310
RELINQUISHED BY:	Rey [illegible]	CALSCIENCE	5-23-96	1414
RECEIVED BY:	Joe Ramnarain	Calscience	5-23-96	1410
RELINQUISHED BY:				
RECEIVED BY:				

001027

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

Los Angeles By Products
c/o John Sepich Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 06/24/96
Date Received: 06/25/96
Date Analyzed: 06/26/96

Work Order No.: 96-06-501
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: ISS 31

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.2
Methylene Chloride	2.3	0.5
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	1.3	0.2
Benzene	1.1	0.2
Carbon Tetrachloride	0.4	0.2
Toluene	3.4	0.2
Trichloroethene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	1.0	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	3.4	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

Los Angeles By Products
c/o John Sepich Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 06/24/96
Date Received: 06/25/96
Date Analyzed: 06/26/96

Work Order No.: 96-06-501
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: ISS 32

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.2
Methylene Chloride	2.0	0.5
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	1.7	0.2
Benzene	1.1	0.2
Carbon Tetrachloride	ND	0.2
Toluene	4.6	0.2
Trichloroethene	0.4	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	1.2	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	2.7	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

Los Angeles By Products
c/o John Sepich Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 06/24/96
Date Received: 06/25/96
Date Analyzed: 06/26/96

Work Order No.: 96-06-501
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: PPS 22

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.2
Methylene Chloride	4.4	0.5
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	2.7	0.2
Benzene	1.2	0.2
Carbon Tetrachloride	ND	0.2
Toluene	3.9	0.2
Trichloroethene	0.2	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	0.8	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	3.1	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

Los Angeles By Products
c/o John Sepich Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 06/24/96
Date Received: 06/25/96
Date Analyzed: 06/26/96

Work Order No.: 96-06-501
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	800
Acetonitrile	ND	4000
1,1-Dichloroethene	ND	800
Methylene Chloride	4000	2000
1,1-Dichloroethane	ND	800
Chloroform	ND	800
1,2-Dichloroethane	6800	800
1,1,1-Trichloroethane	2700	800
Benzene	16700	800
Carbon Tetrachloride	ND	800
Toluene	16100	800
Trichloroethene	ND	800
Tetrachloroethene	ND	800
Chlorobenzene	ND	800
Total Xylenes	6200	2800
Benzyl Chloride	ND	800
1,3-Dichlorobenzene	ND	800
1,4-Dichlorobenzene	ND	800
1,2-Dichlorobenzene	ND	800

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ANALYTICAL REPORT

Los Angeles By Products
c/o John Sepich Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 06/24/96
Date Received: 06/25/96
Date Analyzed: 06/26/96

Work Order No.: 96-06-501
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.2
Methylene Chloride	0.6	0.5
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Toluene	ND	0.2
Trichloroethene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	ND	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

Reviewed and Approved _____ on 07/10/1996
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Quanterra

Environmental Services

Quanterra Incorporated
18501 East Gale Avenue #130
City of Industry, California 91748

818 965-1006 Telephone
818 965-1003 Fax

July 10, 1996

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 Lincoln Way
Garden Grove, CA 92641
ATTN: Ms. Tori Arnold

ANALYSIS NO.: 119669-0001/0004-SA
ANALYSES: Modified SCAQMD Method 25.1 - Non-Condensable, Fixed Gases (ASTM-D1946)
DATE SAMPLED: 06/24/96
DATE SAMPLES REC'D: 07/02/96

PROJECT NO.: 96-06-501

Enclosed with this letter is the report on the chemical and physical analyses for the samples from ANALYSIS NO.: 119669-0001/0004-SA as shown above.

The samples were received by Quanterra Environmental Services, City of Industry, intact and with the chain-of-custody record attached.

Please note that ND means not detected at the reporting limits expressed.

The preliminary results were faxed to Ms. Tori Arnold on July 9, 1996.

Val Mallari for
Val Mallari
Laboratory Manager

7/10/96
Date
Approved

001833

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Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Calscience Environmental Laboratories, Inc.

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
119669-0001-SA	ISS 31	AIR	24 JUN 96	09:30	02 JUL 96
119669-0002-SA	ISS 32	AIR	24 JUN 96	10:15	02 JUL 96
119669-0003-SA	PPS 22	AIR	24 JUN 96	10:50	02 JUL 96
119669-0004-SA	TSI	AIR	24 JUN 96	11:30	02 JUL 96

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Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name:	Calscience Environmental Laboratories, Inc.		
Client ID:	ISS 31		
LAB ID:	119669-0001-SA		
Matrix:	AIR	Sampled: 24 JUN 96	Received: 02 JUL 96
Authorized:	02 JUL 96	Prepared: N/A	Analyzed: 03 JUL 96
Instrument:	GC-1	Dilution: 1.7	

Parameter	Result	Qualifier	RL	Units
Methane	ND		3.4	ppm-c
Total Non-Methane Hydrocarbons as Methane	ND		17	ppm-c

ND = Not Detected

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Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name:	Calscience Environmental Laboratories, Inc.		
Client ID:	ISS 32		
LAB ID:	119669-0002-SA		
Matrix:	AIR	Sampled: 24 JUN 96	Received: 02 JUL 96
Authorized:	02 JUL 96	Prepared: N/A	Analyzed: 03 JUL 96
Instrument:	GC-1	Dilution: 1.7	

Parameter	Result	Qualifier	RL	Units
Methane	ND		3.4	ppm-c
Total Non-Methane Hydrocarbons as Methane	17		17	ppm-c

ND = Not Detected

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Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name:	Calscience Environmental Laboratories, Inc.		
Client ID:	PPS 22		
LAB ID:	119669-0003-SA		
Matrix:	AIR	Sampled: 24 JUN 96	Received: 02 JUL 96
Authorized:	02 JUL 96	Prepared: N/A	Analyzed: 03 JUL 96
Instrument:	GC-1	Dilution: 1.7	

Parameter	Result	Qualifier	RL	Units
Methane	180		3.4	ppm-c
Total Non-Methane Hydrocarbons as Methane	ND		17	ppm-c

ND = Not Detected

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Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name:	Calscience Environmental Laboratories, Inc.		
Client ID:	TSI		
LAB ID:	119669-0004-SA		
Matrix:	AIR	Sampled: 24 JUN 96	Received: 02 JUL 96
Authorized:	02 JUL 96	Prepared: N/A	Analyzed: 03 JUL 96
Instrument:	GC-1	Dilution: 1.7	

Parameter	Result	Qualifier	RL	Units
Methane	440000		1700	ppm-c
Total Non-Methane Hydrocarbons as Methane	1700		17	ppm-c

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Quanterra
Environmental Services

Fixed Gases
ASTM-D1946

Client Name:	Calscience Environmental Laboratories, Inc.		
Client ID:	TSI		
LAB ID:	119669-0004-SA		
Matrix:	AIR	Sampled: 24 JUN 96	Received: 02 JUL 96
Authorized:	02 JUL 96	Prepared: N/A	Analyzed: 03 JUL 96
Instrument:	GC-1	Dilution: 1.7	

Parameter	Result	Qualifier	RL	Units
Carbon dioxide	39		0.17	% (v/v)
Oxygen	0.87		0.17	% (v/v)
Nitrogen	18		1.7	% (v/v)
Methane	44		0.17	% (v/v)

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Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Air Toxics

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
119669-0001-SA	AIR	SCAQMD-251	03 JUL 96-A1	03 JUL 96-A1	
119669-0002-SA	AIR	SCAQMD-251	03 JUL 96-A1	03 JUL 96-A1	
119669-0003-SA	AIR	SCAQMD-251	03 JUL 96-A1	03 JUL 96-A1	
119669-0004-SA	AIR	ASTM-D1946	03 JUL 96-A1	03 JUL 96-A1	
119669-0004-SA	AIR	SCAQMD-251	03 JUL 96-A1	03 JUL 96-A1	

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Quanterra Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Air Toxics
Project: 119669

Category: ASTM-D1946 Fixed Gases (ASTM-D1946)
Matrix: AIR
QC Lot: 03 JUL 96-A1
Concentration Units: % (v/v)

Date Analyzed: 03 JUL 96

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average (%) DCS	Limits	Precision (RPD) DCS	Limit
Methane	0.0100	0.00950		0.00984		0.00967	97	80-120	3.5	20
Carbon dioxide	10.0	10.5		10.6		10.6	106	80-120	0.95	20

Category: SCAQMD-251 Modified SCAQMD 25.1 - Non-Condensable
Matrix: AIR
QC Lot: 03 JUL 96-A1
Concentration Units: ppm-c

Date Analyzed: 03 JUL 96

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average (%) DCS	Limits	Precision (RPD) DCS	Limit
Methane	100	95.0		98.4		96.7	97	80-120	3.5	20
Total Non-Methane Hydrocarbons as Methane	2930	2440		2440		2440	83	80-120	0.04	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Quanterra Environmental Services

METHOD BLANK REPORT
Air Toxics
Project: 119669

Test: ASTM-D1946 Method ASTM-D1946 - Fixed Gases
Matrix: AIR
QC Run: 03 JUL 96-A1

Date Analyzed: 03 JUL 96

Analyte	Result	Units	Reporting Limit
Carbon dioxide	ND	% (v/v)	0.010
Oxygen	ND	% (v/v)	0.10
Nitrogen	ND	% (v/v)	1.0
Methane	ND	% (v/v)	0.00020

Test: SCAQMD-25_1-G Method SCAQMD 25.1 Modified - Non-Condensable
Matrix: AIR
QC Run: 03 JUL 96-A1

Date Analyzed: 03 JUL 96

Analyte	Result	Units	Reporting Limit
Methane	ND	ppm-c	2.0
Total Non-Methane Hydrocarbons as Methane	ND	ppm-c	10

ND = Not Detected

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CANISTER FIELD DATA RECORD

CLIENT: CEL

CANISTER SERIAL #: D026

DATE CLEANED:

VFR ID:

Duration of comp.: hrs./min.

Flow setting: ml/min

Initials:

READING	VAC. (inches Hg) or PRESS. (psia)	DATE	INITIALS
INITIAL VACUUM CHECK			
INITIAL FIELD VACUUM			
FINAL FIELD READING			
GAUGE READING UPON RECEIPT			
LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	0"	7-3-96	D.O. 7-5
FINAL PRESSURE (PSIA)	24.6	7-3-96	D.O. 7-5

Pressurization gas:

COMMENTS

Time (Hours)	Acceptable Range(-5%) (ml/min)
0.5	167 - 158
1	83.3 - 79.2
2	41.7 - 39.6
4	20.8 - 19.8
6	13.9 - 13.2
8	10.4 - 9.9
10	8.3 - 7.9
12	6.9 - 6.6
24	3.5 - 3.3

CONFIDENTIAL

2

CANISTER FIELD DATA RECORD

CLIENT: CEL

CANISTER SERIAL #: D055

DATE CLEANED:

VFR ID:

Duration of comp.: hrs./min.

Flow setting: ml/min

Initials:

READING	VAC. (inches Hg) or PRESS. (psia)	DATE	INITIALS
INITIAL VACUUM CHECK			
INITIAL FIELD VACUUM			
FINAL FIELD READING			
GAUGE READING UPON RECEIPT			

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	0"	7-3-96	D.D. 7-5
FINAL PRESSURE (PSIA)	24.6	7-3-96	D.D. 7-5

Pressurization gas:

COMMENTS

Time (Hours)	Acceptable Range(-5%) (ml/min)
0.5	167 - 158
1	83.3 - 79.2
2	41.7 - 39.6
4	20.8 - 19.8
6	13.9 - 13.2
8	10.4 - 9.9
10	8.3 - 7.9
12	6.9 - 6.6
24	3.5 - 3.3

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CANISTER FIELD DATA RECORD

CLIENT: CEL

CANISTER SERIAL #: SC01

DATE CLEANED: _____

VFR ID: _____

Duration of comp.: _____ hrs./min.

Flow setting: _____ ml/min

Initials: _____

READING	VAC. (inches Hg) or PRESS. (psia)	DATE	INITIALS
INITIAL VACUUM CHECK			
INITIAL FIELD VACUUM			
FINAL FIELD READING			
GAUGE READING UPON RECEIPT			

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	0"	7-3-96	D.W. 7-5
FINAL PRESSURE (PSIA)	24 6	7-3-96	D.W. 7-5

Pressurization gas: ____

COMMENTS _____

Time (Hours)	Acceptable Range(-5%) (ml/min)
0.5	167 - 158
1	83.3 - 79.2
2	41.7 - 39.6
4	20.8 - 19.8
6	13.9 - 13.2
8	10.4 - 9.9
10	8.3 - 7.9
12	6.9 - 6.6
24	3.5 - 3.3

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CANISTER FIELD DATA RECORD

CLIENT: CEL

CANISTER SERIAL #: D016

DATE CLEANED: _____

VFR ID: _____

Duration of comp.: _____ hrs./min.

Flow setting: _____ ml/min

Initials: _____

READING	VAC. (inches Hg) or PRESS. (psia)	DATE	INITIALS
INITIAL VACUUM CHECK			
INITIAL FIELD VACUUM			
FINAL FIELD READING			
GAUGE READING UPON RECEIPT			
LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (inches Hg and PSIA)	0"	7-3-96	D.C. 7-5
FINAL PRESSURE (PSIA)	24.6	7-3-96	D.C. 7-5

Pressurization gas: ____

COMMENTS

Time (Hours)	Acceptable Range(-5%) (ml/min)
0.5	167 - 158
1	83.3 - 79.2
2	41.7 - 39.6
4	20.8 - 19.8
6	13.9 - 13.2
8	10.4 - 9.9
10	8.3 - 7.9
12	6.9 - 6.6
24	3.5 - 3.3

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92641-1432
TEL: (714) 895-5494 • FAX: (714) 894-7501

To: Quanterra
Attn: Maria

119669

CHAIN OF CUSTODY RECORD

Date 07-01-96

Page 1 of 1

LABORATORY CLIENT: Calscience Environmental Laboratories, Inc.

ADDRESS:

CITY STATE ZIP

TEL: FAX:

CLIENT PROJECT NAME / NUMBER: 96-06-501

PROJECT CONTACT: TORI ARNOLD

SAMPLER(S): (SIGNATURE) Sampled by client

TURNAROUND TIME[1]

☐ SAME DAY (≤ 6 HR)[2], 125% ☐ 24 HOURS, 100% ☐ 48 HOURS, 50% ☐ 72 HOURS[3],25% ☐ 5 DAYS ☐ 10 DAYS ☐ RUSH WRITTEN REPORT, 10%

1. All turnaround times are based on working hours of 8:30 a.m. - 5:30 p.m., M - F. 2. Prior approval is required. 3. Surcharge dose not apply to Tedlar bag samples.

SPECIAL INSTRUCTIONS/REQUIREMENTS: Normal TAT

☒ ROUTINE QC MB, MS/MSD, Surrogates, LCS as applicable. ☐ RWQCB Report Format Surcharge applies

SAMPLE ID	LOCATION/DESCRIPTION	SAMPLING DATE	SAMPLING TIME	WATER Comp.	WATER Grab	AIR Intg.	AIR Grab	SOLID/ SOIL/ FILTER	NO. OF Containers	ANALYSES REQUIRED
ISS 31		06/24/96	09:30			X			1 summa	CH_4, TGNMO by AQMD 25.1
ISS 32		"	10:15			X			1 summa	CH_4, TGNMO by AQMD 25.1
PPS 22		"	10:50				X		1 summa	CH_4, TGNMO by AQMD 25.1
TSI		"	11:30				X		1 summa	CH_4, TGNMO by AQMD 25.1 & Fixed Gases

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Tori E. Arnold	[signature]	7/1/96	18:00
Relinquished by: (Signature) [signature]	Received by: (Signature) [signature]	7/2/96	12:07
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:

Unless otherwise requested, all samples will be disposed of 30 days after receipt.

DISTRIBUTION: White with report, Yellow to CEL, Pink to Client

11/01/95 Revision

Q&Q Graphic (714) 894-9702

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	6-24-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
ISS 31	6-24 96	9:30 Am		1	ISS 31	✓	✓		✓					
ISS 32	6-24 96	10:15 Am		1	ISS 32	✓	✓		✓					
PPS 22	6-24 96	10:50 Am		1	PPS 22	✓	✓							
TSI	6-24 96	11:30 Am		1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS CO.	6-25-96	8:45 AM
RECEIVED BY:	Ray [illegible]	CONSCIENCE	6-25-96	8:45 am
RELINQUISHED BY:	Ray [illegible]	CONSCIENCE	6-25-96	9:45 am
RECEIVED BY:	[illegible]			
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	Conscience	6/25/96	1000

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Sepich Associates Inc.

METHANE SPECIALISTS

3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362

TEL (818) 707-3036
(805) 373-9321

FAX (818) 707-3012
(805) 373-8987

State of California
South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

April 19, 1996

COPY

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for First Quarter, 1996
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the tenth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period January through March, 1996. In compliance with the SCAQMD Rule 1150.1 permit, this first quarter report also contains information required on an annual bases (see Section A.6 of this report).

Monitoring and sampling for this report was performed on January 5, 8, 23, and 29, February 6, 13, and 22, and March 5, 8, 18, and 21, 1996.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill specific implementation plan excludes ambient air sampling unless triggered by certain field findings. Rule 1150.1 also requires simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis. The "gas disposal system" consists of Pacific Energy's electrical generating engines. Emissions monitoring by PE is under separate AQMD permit.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: · If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes)

and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B, Table I for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a maps showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection of a 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.
2. Types and weights of waste materials deposited in the reporting year.
3. Total amount of waste materials deposited to date.
4. Contour map showing updated landfill boundary.
5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.
6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, January through March 1996, field monitoring was conducted on January 5, 8, 23, and 29, February 6, 13, and 22, and March 5, 8, 18, and 21. Perimeter probe, integrated surface, and power plant inlet samples were collected for laboratory analysis on January 29, March 8, and March 18, 1996. Weather conditions delayed some February monitoring and sampling until March 8 (see Exhibit C).

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on January 8, January 23, February 6, February 22, March 5, and March 21, 1996 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 24 hours of sampling.

Perimeter probe sampling was conducted at Probe # 21 on January 29, at Probe # 6 on March 8, and at Probe # 19 on March 18, 1996. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on January 29, March 8, and March 18, 1996, by focusing sampling efforts in zones where TOC surface sampling had not previously been conducted. During instantaneous surface monitoring, no areas had TOC readings (greater

than non-detect) in January, February, or March. Traverse grids for ISS sampling were selected to fill in areas that had not previously been sampled. In January Areas 27 and 28 were sampled (see Integrated Surface Sampling Map in Exhibit A -- note that this quarter's ISS map includes many grids traversed for this Rule 1150.1 compliance program), in on March 8, Areas 29 and 30 were sampled, and on March 18, Areas 34 and 35 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for hydrogen sulfide (H_2S) with a Dreager tube and the results were recorded on a Gas Concentration form. The ISS field monitoring results for the First Quarter TOC and H_2S concentrations were all non-detect.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring Path B was traversed on January 29 and March 8, and Path A was traversed on February 13, 1996. In January, February, and March no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling

10-liter bag samples were collected from the Pacific Energy (PE) electrical generation plant inlet pipeline on January 29, March 8, and March 18, 1996. TOC was monitored with a recently calibrated GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for H_2S with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were collected on May 9, 1995 and results were reported in the second quarter 1995 report.

B.6 Reporting Requirements

This is the tenth in a series of quarterly reports and the first quarterly report for Penrose Landfill for 1996. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring had been performed bi-monthly by Positive Lab Service. After April 1994, their early (to mid-) month data was used to select the monthly probe sampling stations and their (mid to) late-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and

delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

January 23, 1996 perimeter probe monitoring results were all non-detect (ND). Probe 21 was sampled on January 29, 1996.

Table I - January 1996
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBE SAMPLED ON
January 29, 1996

Probe Number	Depth (feet)	Field Value 1/23/96 (% Vol)	Field Value 1/29/96 (% Vol)	Lab Results 1/29/96 (% V⌂˜+	Follow-up Field Value 2/6/96 (% Vol)
21	4	ND	ND	0.0001	ND

Note: Laboratory samples were collected 1/29/96. Field values are volume percent TOC.

ND None detected.

February 22, 1996 and March 5, 1996 perimeter probe monitoring results were all non-detect. Probe #26 was sampled on March 8, 1996. Analytical results from the March 8, 1996 sample recorded 1 part per million methane.

Table II - February 1996
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
ON MARCH 8, 1996 (sampling delayed by weather)

Probe Number	Depth (feet)	Field Value 3/5/96 (% Vol)	Field Value 3/8/96 (% Vol)	Lab Result 3/8/96 (% Vol)	Follow-up Field Value 3/21/96 (% Vol)
6	1	ND	ND	<0.0001	ND

Note: Laboratory samples were collected 3/8/96. Laboratory results are volume percent of methane. Field values are volume percent TOC.

ND None detected

The March 5, 1996 perimeter probe monitoring results were all non-detect. Probe #19 was sampled on March 18, 1996. Analytical results from the March 18, 1996 sample was 2 ppm methane.

Table III - March 1996
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
ON MARCH 18, 1996

Probe Number	Depth (feet)	Field Value 3/5/96 (% Vol)	Field Value 3/18/96 (% Vol)	Lab Result 3/18/96 (% Vol)	Follow-up Field Value 3/21/96 (% Vol)
19	4	ND	ND	0.0002	ND

Note: Laboratory samples were collected 3/18/96. Laboratory results are volume percent of methane. Field values are volume percent TOC.

ND None detected

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" VOC by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FIRST QUARTER 1996
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
1/29/96 AREA # 27	1	4
1/29/96 AREA # 28	2	3
3/8/96 AREA # 29	<1	<1
3/8/96 AREA # 30	35	100
3/18/96 AREA # 35	<1	<1
3/18/96 AREA # 34	<1	<1

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibit A).

< Less than the detection limit given.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the First Quarter of 1996.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 44.9% methane on January 29; 44.8% methane on March 8; and 54.6% methane on March 18, 1996. Dreager tube analytical results were 65 ppm H_2S on January 29; 80 ppm H_2S on March 8; and 120 ppm H_2S on March 18, 1996. For analytical results of fixed gases, NMHC, and core group toxic air contaminants, see Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

PE conducted source test sampling on May 9, 1995. At that time LA By-Products Company sampled from an inlet containing Penrose gas only. PE's source test samples are from the mixture of landfill gas from Penrose, Sheldon, and Bradley landfills, that is being burned at the plant. The analytical results from the samples collected on May 9, 1995 were included in Second Quarter report.

C.6 Report Requirements

This report constitutes the 1996, First Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

As a first quarter report the required annual requirements 8.2 are included below.

A. Pacific Energy's power plant is the only facility operating on the property.

B. No waste materials have been deposited in the landfill during this reporting period.

C. The total material deposited in Penrose Landfill to date is estimated at 14 million tons.

D. A contour map with the landfill boundary is included in Exhibit A. Trash extends throughout the site to within 10 feet of the property line, except along the south property line where trash is approximately 50 feet north of the property line and at the corners of the site where "rounding" resulted from accommodating excavation.

E. The collection system and the electrical power (disposal system) plant is operated by Pacific Energy. Their records of the amount of landfill gas collected during the years 1988 through 1995 and projections are included in Exhibit E (amounts are in BTU).

F. Maps of the collection and disposal (electric power plant) systems, the annual disposal rates during the years 1988 through 1996 are included in Exhibit E.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as

ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

High methane readings in the probes prompted Los Angeles By-Products Company and Pacific Energy to institute a mitigation well program in the Spring of 1994. Adjusting flow rates at the wells to manipulate methane at the probes is an on-going process that has been successful in reducing methane concentrations at the perimeter probes.

During the third quarter monitoring period, July through September, 1995, the landfill was covered with geosynthetic clay liner (GCL) and a final soil layer as a phase of the landfill closure process. The GCL placement required temporary disconnection of landfill gas wells and destruction of some of the perimeter probes. All of the destroyed probes have been replaced. Replacement probe installation was discussed in the fourth quarter, October through December, 1995, report. After GCL placement, re-connection of landfill gas wells was accommodated with a revised and improved gas collection system (see Gas Collection System map in Exhibit E).

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
JUN. 30 1996
CIVIL
STATE OF CALIFORNIA

Sincerely,
Sepich Associates, Inc.

John Sepich, P.E.
President

J152rept.610/atf

Distribution:

Los Angeles By-Products Company, Mr. Mike McAllister
City of Los Angeles, Environmental Affairs Department, Ms. Tania Weaver

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location Map, Integrated Surface Sampling Map and Traverse Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - First Quarter, 1996
- EXHIBIT D: Laboratory Analytical Results - First Quarter, 1996
- EXHIBIT E: Documentation for Annual Requirements - First Quarter, 1996

EXHIBIT A

Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

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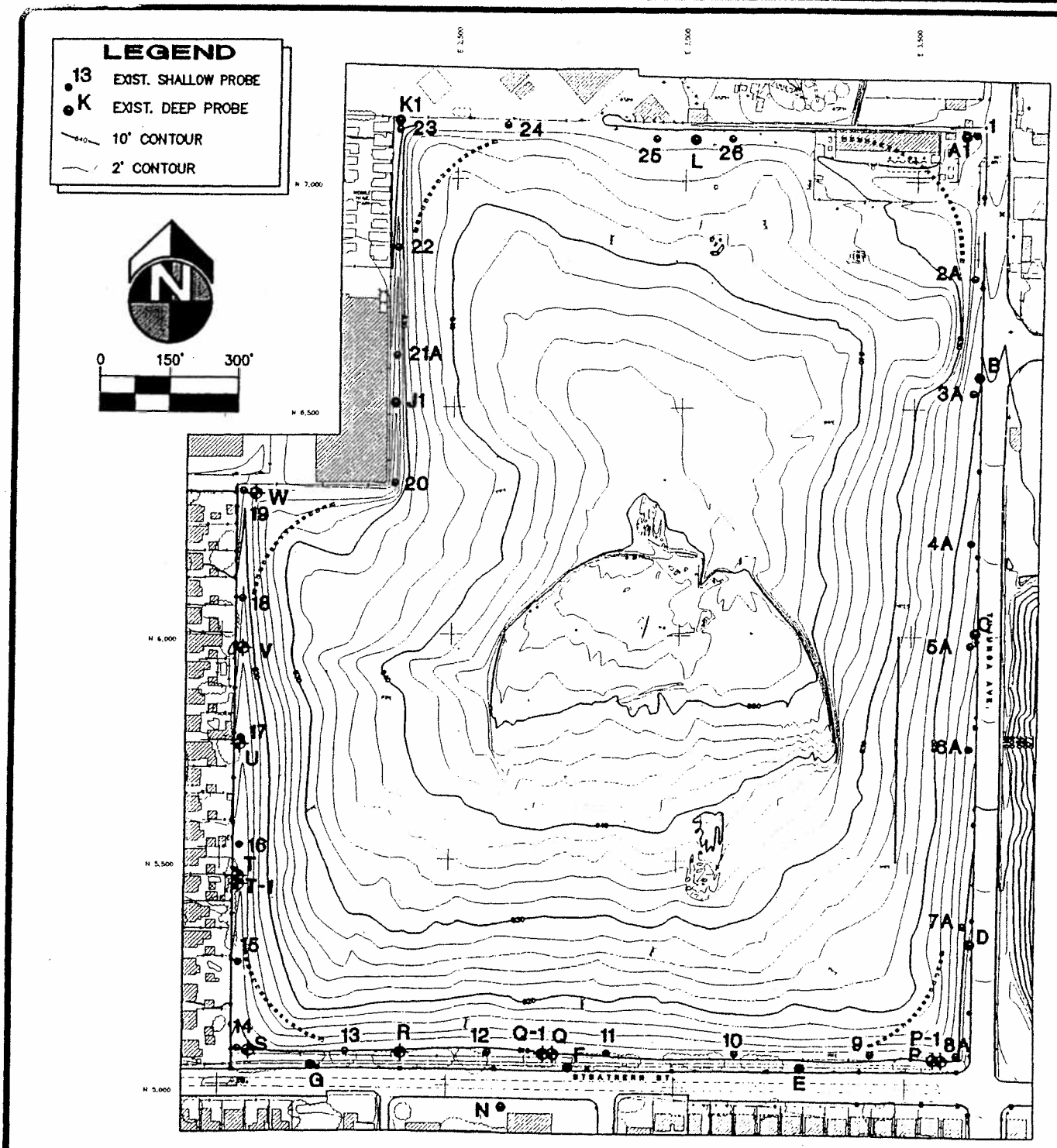
PENROSE LANDFILL
MONITORING PROBE LOCATIONS



SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
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CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

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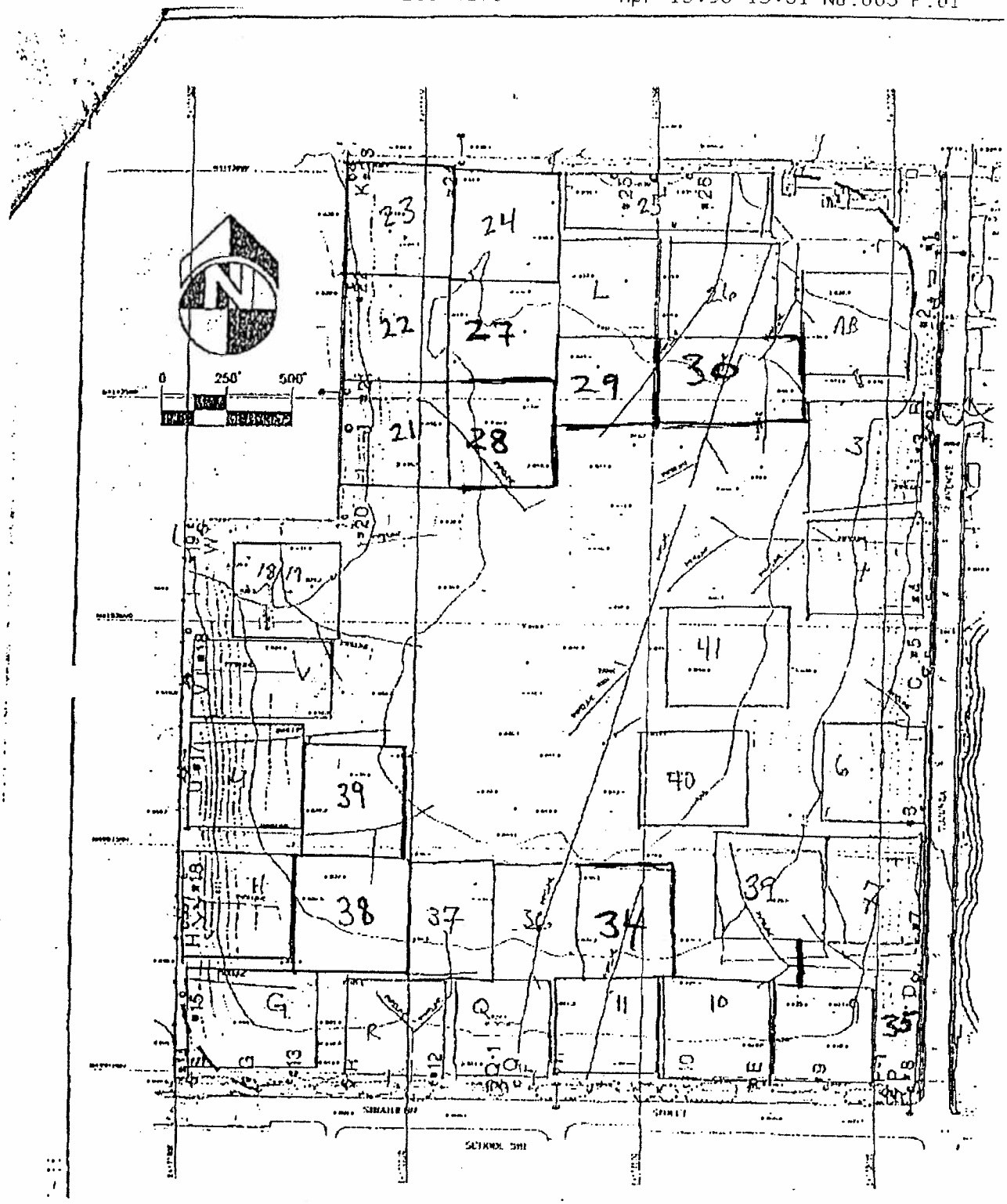

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PENROSE LANDFILL

INTEGRATED SURFACE SAMP

SAMPLING DATE _____ SAMPLER _____ SHEET ____

001860

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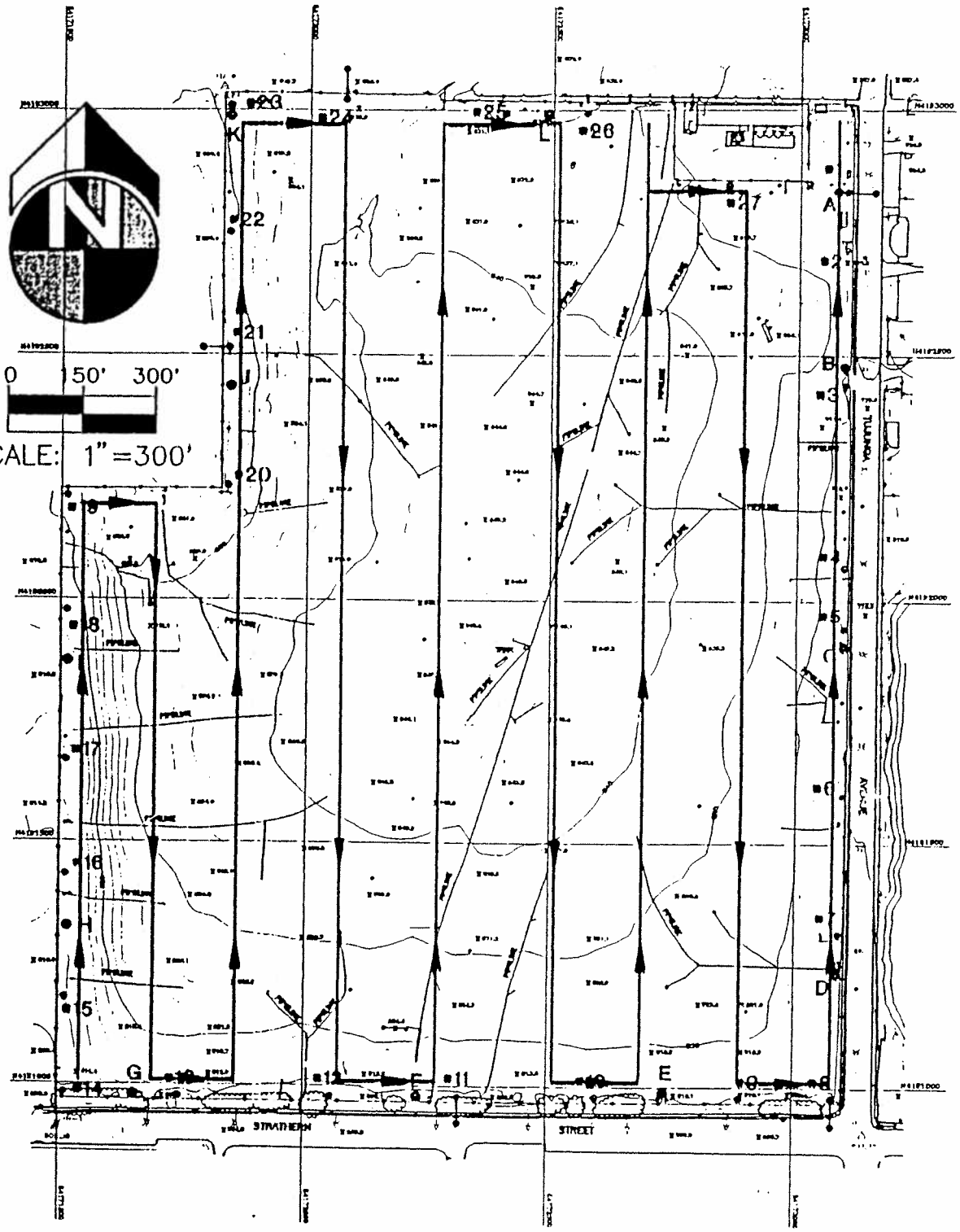
INSTANTANEOUS SURFACE MONITORING



PATH A

Drawing prepared by:
SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
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1810 East 25th St., Los Angeles, CA 90058
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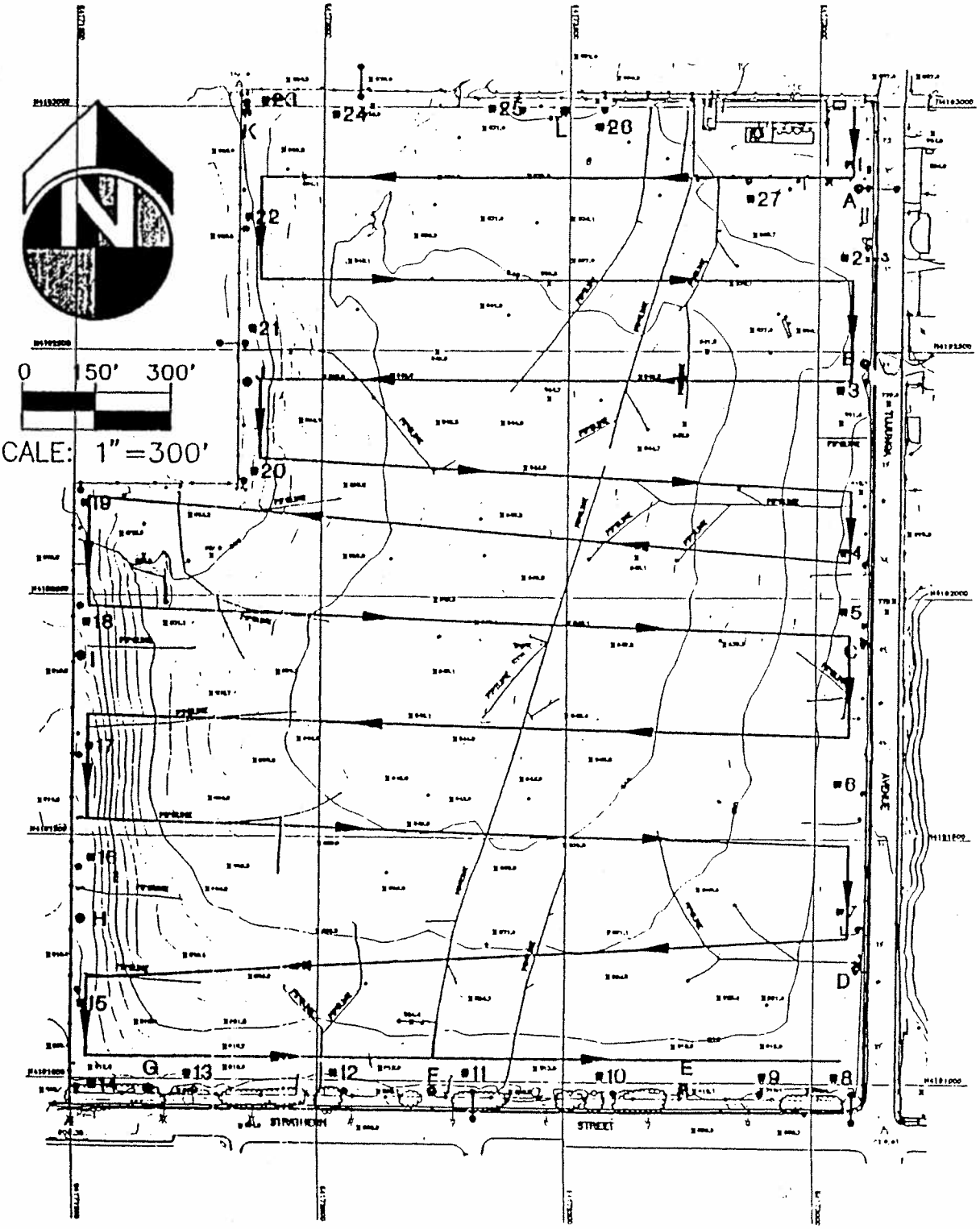
INSTANTANLOUS SURFACL MONITORING



PATH B

Drawing prepared by:
SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8987

For:
Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

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EXHIBIT B

Core Group Toxic Air Contaminants

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TABLE 1: TOXIC AIR CONTAMINANTS -- CORE GROUP

1. Acetonitrile CH_3CN
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1 Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2 Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1 Dichloroethene (Vinylidene Chloride) $CH_2:CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C:CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1 Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichloroethylene $CHCl:CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2:CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - First Quarter, 1996

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SEPICH ASSOCIATES, Inc.
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TEL: (818) 707-3036 (805) 373-9321
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JOB NAME: PENROSE

JOB No. 5152-6

DATE 1/5/96

INSPECTION REPORT

CLIMATE: bright, clear, fog, (cloudy), overcast, rain | <32° F, 33°-55°, 56°-70°, (71°-85°), 86°-100°, >100° F | (still), breeze, wind | dry, (moderate), humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: There was no wind, according to an electronic wind speed indicator. The temperature was cool with thick cloud covering overheads. Path 'B' was followed by contractor. Monitor began at 8:43 AM and concluded at 10:48 AM with NO DETECTIONS. Instrument used in monitor was the FOXBORO 128, last calibrated on 1/5/96 at 7:20 AM by Robert McAllister. Last precipitation recorded was over 120 hours.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
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Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

February 1, 1996

RECEIVED
FEB 08 1996
L.A. BY-PROD. CO.

FILE NO: 72986

LAB NO: 6016082300

SAMPLE: On 01/08/96 at 15:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	ND
2	ND	14	ND	26	ND	N	(3)*
3	ND	15	ND	A1	ND	P	(4)
4	ND	16	ND	B	ND	P1@120'	ND
5	ND	17	ND	C	ND	Q	(5)*
6	ND	18	ND	D	ND	Q1	(6)*
7	ND	19	ND	E	ND	R	(7)*
8	ND	20	ND	F	ND	S	(8)*
9	ND	21	ND	G	ND	T	(9)*
10	ND	22	ND	H	**	T1-72'	ND
11	ND	23	ND	J1	ND	U	(10)*
12	ND	24	ND	K	ND	V	(11)*
						W	(12)*

*See following page for methane results
**No probe

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

February 1, 1995

FILE NO: 72986

LAB NO: 6016082300

(1) Site C	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Energy, Attn: Vicki Castle

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 900430

February 21, 1996

RECEIVED
FEB 27 1996
L.A. BY-PROD. CO.

FILE NO: 70237

LAB NO: 6051143401

SAMPLE: On 01/23/96 at 15:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	H	**	T1-72'	ND
11	ND	23	ND	J1	ND	U	(10)*
12	ND	24	ND	K1	ND	V	(11)*
						W	(12)*

*See following page for methane results
**No probe

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POSITIVE LAB SERVICE

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Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

February 21, 1996

FILE NO: 70237

LAB NO: 6051143401

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 01/29/96

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain; <32° F, 33°-55°, 56°-70, 71°-85°, 86°-100°, >100° F; still, breeze, wind; dry, moderate, humid

LOCATION: PENROSE

PURPOSE: TSI, ISS, PSS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Last recorded precipitation was over 72 hours ago. Weather was cool with high cloud cover and no detectable wind according to an electronic wind speed indicator. OVA instrument used was a FOXBORO 128 last calibrated by Robert McAllister 1/29/96 at 7:21 AM. Instrument used in detection of H_2S was a Drager pump and Drager tubes. Instrument used to detect TOC was a GasTech 1pl-28 last calibrated on 3-20-95 at 9:10 am by Tony Robinson at P.E. All air samples were collected in 10-liter Tedlar bags

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
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FAX: (818) 707-3012 (805) 373-8887

JOB NAME: PENROSE

J152-6
01 29 96

REMARKS CONTINUED:

and placed into a Black trash bag for protection from sunlight. The integrated surface sampler used to collect ISS samples was a portable self-contained unit with its own power (internal) power source, which collected samples at 400 cc/min.

ISS 27 was collected at 9:11 AM and field tested for OVA and H_2S with results for both of ND. ISS 28 was collected at 9:42 AM and field tested for OVA and H_2S with results for both of ND. PPS 21 was collected at 10:04 AM and field tested for TOC and H_2S with results for both of ND. The TSI was collected at 11:37 AM and field tested for H_2S resulting in 65 ppm and TOC level of 46%.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 1-22-96

JOB No.: J152 6

GAS CONCENTRATIONS

INITIALS	REMARKS
TIME	ISS 27 9:11 AM
INSTRUMENT	ISS 28 9:42 AM PPS 21 10:04 AM
PARAMETER	TSI 11:37 AM

PROBE #	QUA	H_2S
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21 A		
22		
23		
24		
25		
26		
ISS 27	ND	ND.
ISS 28	ND	ND

PROBE #						TOC	H_2S
A-1					10'		
B				R	40'		
C	GREEN-21'				80'		
	YELLOW-41'				120'		
	ORANGE-61'				10'		
	RED - 81'			S	40'		
D					80'		
E					120'		
F					10'		
G				T	40'		
J-1					73'		
K-1				T-1	72'		
L	GREEN-45'				10'		
	YELLOW-65'			U	37'		
	ORANGE-85'				68'		
	RED - 105'				10'		
N	GREEN-22'			V	40'		
	YELLOW-45'				73'		
	ORANGE-68'				10'		
	RED - 90'				40'		
P	10'			W	80'		
	40'				120'		
	80'				158'		
P-1	120'				PPS 21	ND	ND
Q	10'			TSI		46%	65ppm
	40'						
	75'						
Q-1	120'						
	158'						

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PRODE SAMPLES PLANT INLET SAMPLE	J152-6	1-29-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
ISS 27	1-29-96	9:11 AM	C	1	ISS # 27	✓	✓	✓						
ISS 28	1-29 96	9:42 AM	C	1	ISS # 28	✓	✓	✓						
PPS 21	1-29 96	10:04 AM	G	1	PPS # 21	✓	✓							
TSI	1-29 96	11:37 AM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert M. Allister	LOS ANGELES BY-PRODUCTS.	1-29-96	11:44 AM
RECEIVED BY:	Scott M. Uhm	Los Angeles By-Products	1-29-96	11:45 AM
RELINQUISHED BY:	Scott M. Uhm	Los Angeles By-Products	1-29-96	1:47 PM
RECEIVED BY:	[illegible]	CALSCIENCE	1-29-96	1:47 PM
RELINQUISHED BY:	[illegible]	CALSCIENCE	1-29-96	1728
RECEIVED BY:	[illegible]	CALSCIENCE	1-29-96	1728

00104

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POSITIVE LAB SERVICE

JOB NAME: PENROSE LANDFILL

DATE: 02/06/96

JOB No.:

GAS CONCENTRATIONS

INITIALS		
TIME	15:30	
INSTRUMENT		
PARAMETER		

REMARKS

PROBE #		
1	ND	
2-A	ND	
3-A	ND	
4-A	ND	
5-A	ND	
6-A	ND	
7-A	ND	
8-A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	ND	
21-A	ND	
22	ND	
23	ND	
24	ND	
25	ND	
26	ND	

PROBE #							
	A-1	ND		S	10'	ND	
	B	ND			40'	ND	
C	GREEN-21'	ND			80'	ND	
	YELLOW-41'	ND			120'	ND	
	ORANGE-61'	ND		T	10'	ND	
	RED - 81'	ND			40'	ND	
	D	ND			73'	ND	
	E	ND		T-1	72'	ND	
	F	ND		U	10'	ND	
	G	ND			37'	ND	
	J-1	ND			68'	ND	
	K-1	ND		V	10'	ND	
L	GREEN-45'	ND			40'	ND	
	YELLOW-65'	ND			73'	ND	
	ORANGE-85'	ND		W	10'	ND	
	RED - 105'	ND			40'	ND	
N	GREEN-22'	ND			80'	ND	
	YELLOW-45'	ND			120'	ND	
	ORANGE-88'	ND			158'	ND	
	RED - 90'	ND					
P	10'	ND		TSI		N/A	
	40'	ND					
	80'	ND					
P-1	120'	ND					
Q	10'	ND					
	40'	ND					
	75'	ND					
Q-1	120'	ND					
	158'	ND					
R	10'	ND					
	40'	ND					
	80'	ND					
	120'	ND					

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6
DATE 02/13/96

INSPECTION REPORT

CLIMATE: bright / clear / fog / cloudy / overcast / rain | <32° F / 33°-55° / 56°-70° / 71°-85° / 86-100° / >100° F | still / breeze / wind | dry / moderate / humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: A Bright Sunny warm day with No detectable wind according to an electronic wind speed indicator. Instrument used in monitor was the FOXBORO 128 last calibrated on 02/13/96 by ROBERT McAllister at 7:11 AM. Inspector followed PATH 'A' and received No Detections. Monitor began at 9:13 AM and ended at 12:01 pm. Last recorded rainfall was over 72 hours ago.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 02/21/96

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, (rain) | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Due to RAIN - CANCELLED ATTEMPT -

☒ REINSPECTION REQUIRED

Robert mc allister
INSPECTOR

PRINCIPAL

SHEET __ OF __

JS-0025 4/15/94

001877

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POSITIVE LAB SERVICE

JOB NAME: PENROSE LANDFILL

DATE: 2/22/96

JOB No.:

GAS CONCENTRATIONS

INITIALS	15 00	
TIME		
INSTRUMENT		
PARAMETER		

REMARKS

PROBE #		
1	ND	
2-A	ND	
3-A	ND	
4-A	ND	
5-A	ND	
6-A	ND	
7-A	ND	
8-A	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	ND	
21-A	ND	
22	ND	
23	ND	
24	ND	
25	ND	
26	ND	

PROBE #			
A-1		ND	
B		ND	
C	GREEN-21'	ND	
	YELLOW-41'	ND	
	ORANGE-61'	ND	
	RED - 81'	ND	
D		ND	
E		ND	
F		ND	
G		ND	
J-1		ND	
K-1		ND	
L	GREEN-45'	ND	
	YELLOW-65'	ND	
	ORANGE-85'	ND	
	RED - 105'	ND	
N	GREEN-22'	ND	
	YELLOW-45'	ND	
	ORANGE-68'	ND	
	RED - 90'	ND	
P	10'	ND	
	40'	ND	
	80'	ND	
P-1	120'	ND	
Q	10'	ND	
	40'	ND	
	78'	ND	
Q-1	120'	ND	
	158'	ND	
R	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	

S	10'	ND
	40'	ND
	80'	ND
	120'	ND
T	10'	ND
	40'	ND
	73'	ND
T-1	72'	ND
U	10'	ND
	37'	ND
	68'	ND
V	10'	ND
	40'	ND
	73'	ND
W	10'	ND
	40'	ND
	80'	ND
	120'	ND
	158'	ND
TSI		

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 02/27/96

INSPECTION REPORT

CLIMATE:

bright clear fog	cloudy overcast rain	<32° F 33°-55° 56°-70°	71°-85° 86°-100° >100° F	still breeze wind	dry moderate humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: RAIN - CANCELLED ATTEMPT

☒ REINSPECTION REQUIRED

Robert mcallister
INSPECTOR

PRINCIPAL

SHEET__OF__

IS A0075 4/15/94

001879

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

April 3, 1996

RECEIVED
APR 08 1996
L.A. BY-PROD CO.

FILE NO: 72986

LAB NO: 6094091200

SAMPLE: On 03/05/96 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

April 3, 1996

Page 2

FILE NO: 72986

LAB NO: 6094091200

(1) Site G	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Ql	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Energy Systems, Attn: Vicki Castle

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6
DATE 3/8/96

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor ISM

CONTRACTOR(S): ROBERT McAllister

REMARKS: HOT! BRIGHT SUNSHINE! There was a small breeze of .3 to 1.7 mph. according to an electronic wind speed indicator. Instrument used in monitor was the FOXBORO 128 last calibrated by ROBERT McAllister at 7:19 Am on 3/8/96. The monitor began at 11:54 Am and finished by 1:43 pm. with No detections of gas. Last recorded precipitation was over 72 hours ago. Contractor followed path 'B'.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

001882

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 03/08/96

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: The temperature was cool with High cloud cover but no detectable wind according to an electronic wind speed Indicator. The OVA instrument used was a Foxboro 128 last calibrated by Robert McAllister at 7:19 Am 3/8/96. Instrument used to test H_2S was a Drager pump and Drager tubes. Instrument used for TOC was a Natural Gas Indicator model npl-28 last calibrated on 2-13-96 by J.G Tucker. All air samples were collected in 10-liter tedlar bags and placed into a Black trash bag for protection from

☐ REINSPECTION REQUIRED

Robert mcallister
INSPECTOR

PRINCIPAL

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME
PENROSE

J152-6
03 08 96

REMARKS CONTINUED:

sunlight. The ISS samples were collected by portable self-contained unit with it's own internal power supply which collect air samples at 400 cc/min. Last recorded rainfall was over 72 hours past.

ISS 29 was collect at 10:03 AM and field tested for H_2S and OVA with results of ND for both. ISS 30 was collected at 10:31 AM. and field tested for H_2S and OVA with results of ND for both. PPS was collected at 11:55 AM and field tested for TOC and H_2S with results of ND for both. The TSI sample was collected at 11:01 AM and field tested for H_2S with result of 80 ppm and 25% TOC.

Robert McAllister
INSPECTOR

PRINCIPAL

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 3-9-96

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS ISS 29 10:03 AM
TIME	ISS 30 10:31 AM
INSTRUMENT	PPS 6 11:55 AM
PARAMETER	TSI 11:01 AM

PROBE #	TOC	H_2S
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19	ND	ND
20		
21 A		
22		
23		
24		
25		
26		
ISS 29	ND	ND
ISS 30	ND	ND

PROBE #					TOC	H_2S
A-1				10'		
B			R	40'		
C	GREEN-21'			80'		
	YELLOW-41'			120'		
	ORANGE-61'			10'		
	RED - 81'		S	40'		
D				80'		
E				120'		
F				10'		
G			T	40'		
J-1				73'		
K-1			T-1	72'		
L	GREEN-45'			10'		
	YELLOW-65'		U	37'		
	ORANGE-85'			68'		
	RED - 105'			10'		
N	GREEN-22'		V	40'		
	YELLOW-45'			73'		
	ORANGE-68'			10'		
	RED - 90'			40'		
P	10'		W	80'		
	40'			120'		
	80'			158'		
P-1	120'					
Q	10'		TSI		25%	50 ppm
	40'					
	75'					
Q-1	120'					
	158'					

METHANE SPECIALISTS

001885

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 3/18/96

INSPECTION REPORT

CLIMATE: bright, cloudy, (cled), overcast, fog, rain | <32° F, 71°-85°, 33°-55°, (85°-100°), 56°-70°, >100° F | (still), breeze, wind | dry, (moderate), humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS.

ISS = Instantaneous Surface Sample
TSI = Treatment System Inlet
PPS = Perimeter Probe Sample

CONTRACTOR(S): ROBERT McAllister.

REMARKS: No wind was detected by an electronic wind speed indicator and last recorded precipitation was over six days ago. OVA instrument used was the Foxboro 128 last calibrated by Robert McAllister at 8:05 Am on 3/18/96. The TOC meter used was a Natural Gas Indicator model npl-204 last calibRATED by J.G. Tucker and Son on 2-13-96. The H_2S tests were done with a Drager Pump and drager tubes. ISS samples were collected by a portable self-

☐ REINSPECTION REQUIRED

Robert mc allister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME
PENROSE

J152-6
3 18 96

REMARKS CONTINUED:

contained unit with its own internal power supply, which collected samples at 400 cc/min. All samples were collected in 10-liter Tedlar bags and placed into a Black trash bag for protection from sunlight.

ISS 34 was collected at 9:49 AM and field tested for H_2S and OVA with a ND result for both. ISS 35 was collected at 10:15 am and field tested for H_2S and OVA with a ND result for both. PPS #19 was collected at 10:50 am and field tested for TOC and H_2S with a ND result for both. The TS1 was collected at 11:21 AM, and field tested for TOC at 45% and H_2S at 120 ppm.

Robert McAllister
INSPECTOR

PRINCIPAL

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J152-6

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

JOB NAME: PENROSE LANDFILL

DATE: 7-18-96

JOB No.: J152-6

GAS CONCENTRATIONS

INITIALS	REMARKS
TIME	BLUE Skies - Hazy in morning
INSTRUMENT	HOT - No WIND
PARAMETER	

PROBE #		
1		
2 A		
3 A		
4 A		
5 A		
6 A		
7 A		
8 A		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18	H_2S	TOC
19	ND	ND
20		
21 A		
22		
23		
24		
25		
26		

PROBE #							
A-1			R	10'		
B				40'		
C	GREEN-21'			80'		
	YELLOW-41'			120'		
	ORANGE-61'		S	10'		
	RED - 81'			40'		
D				80'		
E				120'		
F			T	10'		
G				40'		
J-1				73'		
K-1			T-1	72'		
L	GREEN-45'		U	10'		
	YELLOW-65'			37'		
	ORANGE-85'			68'		
	RED - 105'		V	10'		
N	GREEN-22'			40'		
	YELLOW-45'			73'		
	ORANGE-68'		W	10'		
	RED - 90'			40'		
P	10'			80'		
	40'			120'		
	80'			158'		
P-1	120'				H_2S	TOC
Q	10'		TSI		120 ppm	45%
	40'					
	75'				OVA	H_2S
Q-1	120'			ISS 34	ND	ND
	158'			ISS 35	ND	ND

PICH ASSOCIATES, Inc. 3617 E. THOUSAND OAKS BLVD. #303 W LAKE VILLAGE, CA. 91362 TEL (818)707-3036 FAX (818)707-3
CHANE SPECIALISTS

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290

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	3-18-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

FAX ~~213-233 4175~~ 213 233 4170

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
FPS #19	3-18 96	11:50 Am	G	1	FPS #19	✓	✓							
ISS #35	3-18 96	10:15 Am	C	1	ISS #35	✓	✓	✓						
ISS #34	3-18 96	9:49 Am	C	1	ISS #34	✓	✓	✓						
TSI	3-18 96	11:21 Am	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS	3:18 Am.	1:43 pm.
RECEIVED BY:	[illegible]	CALSCIENCE	3/18/96	1:43 P.M.
RELINQUISHED BY:	[illegible]	[illegible]	3/18/96	2:04 P.M.
RECEIVED BY:				

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

April 3, 1996

RECEIVED
APR 08 1996
L.A. BY-PROD. CO.

FILE NO: 70237

LAB NO: 6094091500

SAMPLE: On 03/21/96 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	(2)*
2-A	ND	14	ND	26	ND	N	(3)*
3-A	ND	15	ND	A1	ND	P	(4)*
4-A	ND	16	ND	B	ND	P1@120'	ND
5-A	ND	17	ND	C	(1)*	Q	(5)*
6-A	ND	18	ND	D	ND	Q1	(6)*
7-A	ND	19	ND	E	ND	R	(7)*
8-A	ND	20	ND	F	ND	S	(8)*
9	ND	21-A	ND	G	ND	T	(9)*
10	ND	22	ND	J1	ND	T1-72'	ND
11	ND	23	ND	K1	ND	U	(10)*
12	ND	24	ND			V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

April 3, 1996

Page 2

FILE NO: 70237

LAB NO: 6094091500

(1) Site C	Percent Methane	(2) Site L	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Ql	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 158'	ND	@ 40'	ND	@ 40'	ND
@ 75'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 73'	ND	@ 68'	ND	@ 73'	ND	@ 80'	ND
						@ 120'	ND
						@ 158'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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EXHIBIT D

Laboratory Analytical Results - First Quarter, 1996

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

Los Angeles By Products c/o John Sepich Associates, Inc. 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	01/29/96 01/29/96 01/31/96
Attn: Alex Feucht RE: Job #J152-6	Work Order No.: Method: Page 1 of 2	96-01-484 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS #27

Analyte	Concentration	Reportable Limit
Methane	1	1
TGNMO	4	1

Sample Number: ISS #28

Methane	2	1
TGNMO	3	1

Sample Number: PPS #21

TGNMO	3	1

Sample Number: TSI

Oxygen	6660	1000
Nitrogen	150000	1000
Methane	449000	1000
Carbon Dioxide	390000	1000
Carbon Monoxide	ND	2
TGNMO	592	1

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

Los Angeles By Products c/o John Sepich Associates, Inc. 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	01/29/96 01/29/96 01/31/96
Attn: Alex Feucht RE: Job #J152-6	Work Order No.: Method: Page 2 of 2	96-01-484 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Oxygen	ND	1000
Nitrogen	ND	1000
Carbon Dioxide	ND	1000
Methane	ND	1
Carbon Monoxide	ND	2
TGNMO	ND	1

QA/QC

Sample Number: 96-01-474-3 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen	21500	21700	1	0 - 25
Nitrogen	1020000	1020000	0	0 - 25
Carbon Dioxide	67.0	64.5	4	0 - 25
Methane	5.1	5.2	4	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
TGNMO	2000	1970	1	0 - 25

Reviewed and Approved _____ on 02/06/1996
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

Los Angeles By Products	Date Sampled:	01/29/96
c/o John Sepich Associates, Inc.	Date Received:	01/29/96
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	01/30/96
Westlake Village, CA 91362		
	Work Order No.:	96-01-484
Attn: Alex Feucht	Method: EPA TO-14 (1150.1 Compounds)	
RE: Job #J152-6	Page 1 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: ISS #27

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.2
Methylene Chloride	1.8	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	1.3	0.2
Benzene	3.1	0.2
Carbon Tetrachloride	0.3	0.2
Toluene	6.2	0.2
Trichloroethene	0.2	0.2
Tetrachloroethene	0.4	0.2
Chlorobenzene	ND	0.2
Xylenes, Total	6.9	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	1.2	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

Los Angeles By Products c/o John Sepich Associates, Inc. 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	01/29/96 01/29/96 01/30/96
Attn: Alex Feucht RE: Job #J152-6	Work Order No.: Method: EPA TO-14 (1150.1 Compounds) Page 2 of 6	96-01-484

All concentrations are reported in ppb (v/v).

Sample Number: ISS #28

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	10
Acetonitrile	ND	50
1,1-Dichloroethene	ND	10
Methylene Chloride	161	10
1,1-Dichloroethane	ND	10
Chloroform	ND	10
1,2-Dichloroethane	ND	10
1,1,1-Trichloroethane	28	10
Benzene	48	10
Carbon Tetrachloride	ND	10
Toluene	513	10
Trichloroethene	10	10
Tetrachloroethene	28	10
Chlorobenzene	59	10
Xylenes, Total	1120	35
Benzyl Chloride	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	71	10
1,2-Dichlorobenzene	ND	10

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

Los Angeles By Products	Date Sampled:	01/29/96
c/o John Sepich Associates, Inc.	Date Received:	01/29/96
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	01/30/96
Westlake Village, CA 91362		
	Work Order No.:	96-01-484
Attn: Alex Feucht	Method: EPA TO-14 (1150.1 Compounds)	
RE: Job #J152-6	Page 3 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: PPS #21

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.2
Methylene Chloride	2.0	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	1.3	0.2
Benzene	2.5	0.2
Carbon Tetrachloride	0.3	0.2
Toluene	6.1	0.2
Trichloroethene	0.2	0.2
Tetrachloroethene	0.5	0.2
Chlorobenzene	0.2	0.2
Xylenes, Total	7.6	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	1.2	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

Los Angeles By Products c/o John Sepich Associates, Inc. 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	01/29/96 01/29/96 01/30/96
Attn: Alex Feucht RE: Job #J152-6	Work Order No.: Method: EPA TO-14 (1150.1 Compounds) Page 4 of 6	96-01-484

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	883	200
Acetonitrile	ND	1000
1,1-Dichloroethene	ND	200
Methylene Chloride	8540	200
1,1-Dichloroethane	ND	200
Chloroform	ND	200
1,2-Dichloroethane	ND	200
1,1,1-Trichloroethane	487	200
Benzene	2350	200
Carbon Tetrachloride	ND	200
Toluene	18800	200
Trichloroethene	750	200
Tetrachloroethene	383	200
Chlorobenzene	1150	200
Xylenes, Total	17700	700
Benzyl Chloride	ND	200
1,3-Dichlorobenzene	ND	200
1,4-Dichlorobenzene	333	200
1,2-Dichlorobenzene	ND	200

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

Los Angeles By Products	Date Sampled:	01/29/96
c/o John Sepich Associates, Inc.	Date Received:	01/29/96
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	01/30/96
Westlake Village, CA 91362		
	Work Order No.:	96-01-484
Attn: Alex Feucht	Method: EPA TO-14 (1150.1 Compounds)	
RE: Job #J152-6	Page 5 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Vinyl Chloride	ND	0.2
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.2
Methylene Chloride	0.3	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	0.2	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Toluene	0.6	0.2
Trichloroethene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Xylenes, Total	ND	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

Los Angeles By Products	Date Sampled:	01/29/96
c/o John Sepich Associates, Inc.	Date Received:	01/29/96
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	01/30/96
Westlake Village, CA 91362		
	Work Order No.:	96-01-484
Attn: Alex Feucht	Method: EPA TO-14 (1150.1 Compounds)	
RE: Job #J152-6	Page 6 of 6	

All concentrations are reported in ppb (v/v).

QA/QC

Sample Number: PPS #21 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Vinyl Chloride	ND	ND	NA	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	2.0	2.0	0	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 - 30
1,1,1-Trichloroethane	1.3	1.4	8	0 - 30
Benzene	2.5	2.6	4	0 - 30
Carbon Tetrachloride	0.3	0.3	0	0 - 30
Toluene	6.1	6.2	2	0 - 30
Trichloroethene	0.2	0.2	0	0 - 30
Tetrachloroethene	0.5	0.5	0	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30
p,m-Xylenes	5.7	5.6	2	0 - 30
o-Xylenes	1.8	1.8	0	0 - 30
Benzyl Chloride	ND	ND	NA	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	1.2	1.2	0	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved William H. Christensen on 02/06/1996

William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	1-29-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
ISS 27	1-29-96	9:11 Am	C	1	ISS # 27	✓	✓	✓						
ISS 28	1-29 96	9:42 Am	C	1	ISS # 28	✓	✓	✓						
PPS 21	1-29 96	10:04 Am	G	1	PPS # 21	✓	✓							
TSI	1-29 96	11:37 Am	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert m. allister	LOS ANGELES BY-PRODUCTS.	1-29-96	11:44 Am
RECEIVED BY:	Scott m. Um	LOS ANGELES By-Products	1-29-96	11:45 Am
RELINQUISHED BY:	Scott M Um	LOS ANGELES By-Products	1-29-96	1:47 Pm
RECEIVED BY:	[illegible]	CALSCIENCE	1-29-96	1:47 P.M.
RELINQUISHED BY:	[illegible]	CALSCIENCE	1-29-96	1728
RECEIVED BY:	[illegible]	CALScience	1-29-96	1728

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ANALYTICAL REPORT

LA By Products-Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 03/08/96
Date Received: 03/08/96
Date Analyzed: 03/11/96

Work Order No.: 96-03-164
Method: SCAQMD 25.1
Page 1 of 3

Attn: Robert McAllister/Alex Feucht
RE: Penrose Landfill/J152-6

TGNMO concentration values are reported in ppm (v/v) as methane. All methane concentration values are reported in ppm (v/v).

Sample Number: ISS #29

Analyte	Concentration	Reportable Limit
Methane	ND	1
TGNMO	ND	1

Sample Number: ISS #30

Methane	35	1
TGNMO	100	1

Sample Number: PPS #6

TGNMO	13	1

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ANALYTICAL REPORT

LA By Products-Sepich & Associates 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: 03/08/96 Date Received: 03/08/96 Date Analyzed: 03/11/96
Attn: Robert McAllister/Alex Feucht RE: Penrose Landfill/J152-6	Work Order No.: 96-03-164 Method: SCAQMD 25.1 Page 2 of 3

TGNMO concentration values are reported in ppm (v/v) as methane. All methane concentration values are reported in and ppm (v/v). All other concentration values are reported in percent (%) by volume.

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Carbon Monoxide	ND	2
TGNMO	495	1
Oxygen plus Argon	1.3	0.1
Nitrogen	16.3	0.1
Methane	44.8	0.1
Carbon Dioxide	38.2	0.1

Sample Number: Method Blank

Carbon Monoxide	ND	2
TGNMO	ND	1
Oxygen plus Argon	ND	0.1
Nitrogen	ND	0.1
Methane	ND	0.1
Carbon Dioxide	ND	0.1

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ANALYTICAL REPORT

LA By Products-Sepich & Associates	Date Sampled:	03/08/96
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	03/08/96
Westlake Village, CA 91362	Date Analyzed:	03/11/96
	Work Order No.:	96-03-164
Attn: Robert McAllister/Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All methane concentration values are reported in and ppm (v/v). All other concentration values are reported in percent (%) by volume.

QA/QC

Sample Number: 96-03-106-01 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
TGNMO	1190	1100	8	0 - 25
Oxygen plus Argon	225000	217000	4	0 - 25
Nitrogen	866000	834000	4	0 - 25
Methane	3820	3600	6	0 - 25
Carbon Dioxide	1080	1030	8	0 - 25

Reviewed and Approved _____ on 03/15/1996
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Quanterra
Environmental Services

Quanterra Incorporated
18501 East Gale Avenue #130
City of Industry, California 91748

818 965-1006 Telephone
818 965-1003 Fax

March 25, 1996

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 Lincoln Way
Garden Grove, CA 92641
ATTN: Ms. Tori Kessler

ANALYSIS NO.: 117547-0001/0004-SA
ANALYSIS: Volatile Organics by GCMS
- Modified EPA TO14
DATE SAMPLED: 03/08/96
DATE SAMPLES REC'D: 03/11/96

PROJECT: PENROSE LANDFILL/96-03-164

Enclosed with this letter is the report on the chemical and physical analyses for the samples from ANALYSIS NO.: 117547-0001/0004-SA as shown above.

The samples were received by Quanterra Environmental Services, City of Industry, intact and with the chain-of-custody record attached.

Please note that ND means not detected at the reporting limits expressed.

EPA Method TO-14 describes the use of SUMMA canisters for sampling and analysis. The use of Tedlar sample bags constitutes a modification to the method and is noted in the analysis description above.

Val Mallari
Laboratory Manager

3/25/96
Date
Approved

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Quanterra Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Calscience Environmental Laboratories, Inc.

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
117547-0001-SA	ISS #29	AIR	08 MAR 96	10:03	11 MAR 96
117547-0002-SA	ISS #30	AIR	08 MAR 96	10:31	11 MAR 96
117547-0003-SA	PPS #6	AIR	08 MAR 96	10:55	11 MAR 96
117547-0004-SA	TSI	AIR	08 MAR 96	11:01	11 MAR 96

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Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: ISS #29
LAB ID: 117547-0001-SA
Matrix: AIR
Authorized: 11 MAR 96
Instrument: GC/MS-B

Sampled: 08 MAR 96
Prepared: N/A
Dilution: 1.0

Received: 11 MAR 96
Analyzed: 11 MAR 96

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	0.80	J	2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
Toluene	4.8		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Xylenes (total)	3.4		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	2.4		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
Acetonitrile	ND		50	ppb (v/v)

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

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Quanterra Environmental Services

Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: ISS #30
LAB ID: 117547-0002-SA
Matrix: AIR
Authorized: 11 MAR 96
Instrument: GC/MS-B

Sampled: 08 MAR 96
Prepared: N/A
Dilution: 1.0

Received: 11 MAR 96
Analyzed: 11 MAR 96

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	1.0	J	2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
Toluene	3.9		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Xylenes (total)	3.4		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	3.5		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
Acetonitrile	ND		50	ppb (v/v)

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

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Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: PPS #6
LAB ID: 117547-0003-SA
Matrix: AIR
Sampled: 08 MAR 96
Received: 11 MAR 96
Authorized: 11 MAR 96
Prepared: N/A
Analyzed: 11 MAR 96
Instrument: GC/MS-B
Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	0.50	J	2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
Toluene	3.6		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Xylenes (total)	3.4		2.0	ppb (v/v)
Benzyl chloride	ND		10	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	4.2		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
Acetonitrile	ND		50	ppb (v/v)

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

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Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: TSI
LAB ID: 117547-0004-SA
Matrix: AIR
Authorized: 11 MAR 96
Instrument: GC/MS-B

Sampled: 08 MAR 96
Prepared: N/A
Dilution: 100

Received: 11 MAR 96
Analyzed: 11 MAR 96

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	390		200	ppb (v/v)
1,1-Dichloroethene	ND		200	ppb (v/v)
Methylene chloride	ND		200	ppb (v/v)
1,1-Dichloroethane	ND		200	ppb (v/v)
Chloroform	ND		200	ppb (v/v)
1,1,1-Trichloroethane	ND		200	ppb (v/v)
Carbon tetrachloride	ND		200	ppb (v/v)
Benzene	1400		200	ppb (v/v)
1,2-Dichloroethane	ND		200	ppb (v/v)
Trichloroethene	130	J	200	ppb (v/v)
Toluene	16000		200	ppb (v/v)
Tetrachloroethene	150	J	200	ppb (v/v)
Chlorobenzene	730		200	ppb (v/v)
Xylenes (total)	14000		200	ppb (v/v)
Benzyl chloride	ND		1000	ppb (v/v)
1,3-Dichlorobenzene	ND		200	ppb (v/v)
1,4-Dichlorobenzene	330		200	ppb (v/v)
1,2-Dichlorobenzene	47	J	200	ppb (v/v)
Acetonitrile	ND		5000	ppb (v/v)

J = Result is detected below the reporting limit or is an estimated concentration.
ND = Not Detected

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Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Air Toxics

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
117547-0001-SA	AIR	TO-14	11 MAR 96-B1	11 MAR 96-B1	
117547-0002-SA	AIR	TO-14	11 MAR 96-B1	11 MAR 96-B1	
117547-0003-SA	AIR	TO-14	11 MAR 96-B1	11 MAR 96-B1	
117547-0004-SA	AIR	TO-14	11 MAR 96-B1	11 MAR 96-B1	

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DUPLICATE CONTROL SAMPLE REPORT
Air Toxics
Project: 117547

Category: TO-14 Method TO-14 - Volatile Organics
Matrix: AIR
QC Lot: 11 MAR 96-B1
Concentration Units: ppb (v/v)

Date Analyzed: 11 MAR 96

Analyte	Concentration Spiked	Measured DCS1	Qual	DCS2	Qual	AVG	Accuracy Average (%) DCS	Limits	Precision (RPD) DCS	Limit
Methylene chloride	48.4	50.7		51.2		51.0	105	86-116	0.98	10
1,1-Dichloroethene	48.4	45.5		45.6		45.6	94	90-115	0.22	10
Trichloroethene	36.7	37.3		37.8		37.6	102	85-114	1.3	10
Toluene	48.4	48.5		48.0		48.2	100	92-114	1.0	10
1,1,2,2-Tetrachloroethane	55.5	62.6		61.3		62.0	112	76-124	2.1	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

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METHOD BLANK REPORT
Air Toxics
Project: 117547

Test: TO-14-MOD-G
Matrix: AIR
QC Run: 11 MAR 96-B1

Volatile Organics by GCMS - Modified EPA TO-14

Date Analyzed: 11 MAR 96

Analyte	Result	Units	Reporting Limit
Vinyl chloride	ND	ppb (v/v)	2.0
1,1-Dichloroethene	ND	ppb (v/v)	2.0
Methylene chloride	ND	ppb (v/v)	2.0
1,1-Dichloroethane	ND	ppb (v/v)	2.0
Chloroform	ND	ppb (v/v)	2.0
1,1,1-Trichloroethane	ND	ppb (v/v)	2.0
Carbon tetrachloride	ND	ppb (v/v)	2.0
Benzene	ND	ppb (v/v)	2.0
1,2-Dichloroethane	ND	ppb (v/v)	2.0
Trichloroethene	ND	ppb (v/v)	2.0
Toluene	ND	ppb (v/v)	2.0
Tetrachloroethene	ND	ppb (v/v)	2.0
Chlorobenzene	ND	ppb (v/v)	2.0
Xylenes (total)	ND	ppb (v/v)	2.0
Benzyl chloride	ND	ppb (v/v)	10
1,3-Dichlorobenzene	ND	ppb (v/v)	2.0
1,4-Dichlorobenzene	ND	ppb (v/v)	2.0
1,2-Dichlorobenzene	ND	ppb (v/v)	2.0
Acetonitrile	ND	ppb (v/v)	10

ND = Not Detected

(164)

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	3-8-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
ISS 29	3-8 96	10:03 Am	C	1	ISS #29	✓	✓	✓						
ISS 30	3-8 96	10:31 Am	C	1	ISS #30	✓	✓	✓						
PPS 6	3-8 96	11:55 Am	G	1	PPS #6	✓	✓							
TSI	3-8 96	11:01 Am	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	3-8-96	14:50
RECEIVED BY:	Kent B Boyer	Cal Science	3-8-96	14:50
RELINQUISHED BY:	Kent B Boyer	Cal Science	3-8-96	1745
RECEIVED BY:	Joe Lannardain	Cal Science	3-8-96	1745
RELINQUISHED BY:				
RECEIVED BY:				

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 03/18/96
Date Received: 03/18/96
Date Analyzed: 03/21/96

Work Order No.: 96-03-290
Method: SCAQMD 25.1
Page 1 of 2

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: PPS #19

Analyte	Concentration	Reportable Limit
TGNMO	13	1

Sample Number: ISS #35

Methane	ND	1
TGNMO	ND	1

Sample Number: ISS #34

Methane	ND	1
TGNMO	ND	1

Sample Number: TSI

Methane	546000	1000
TGNMO	665	1
Oxygen plus Argon	6410	1000
Nitrogen	111000	1000
Carbon Dioxide	491000	1000
Carbon Monoxide	ND	2

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 03/18/96
Date Received: 03/18/96
Date Analyzed: 03/21/96

Work Order No.: 96-03-290
Method: SCAQMD 25.1

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Methane	ND	1000
TGNMO	ND	1
Oxygen plus Argon	ND	1000
Nitrogen	ND	1000
Carbon Dioxide	ND	1000
Carbon Monoxide	ND	2

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Methane	546000	547000	0	0 - 25
TGNMO	665	677	2	0 - 25
Oxygen plus Argon	6410	6230	3	0 - 25
Nitrogen	111000	110000	1	0 - 25
Carbon Dioxide	491000	490000	0	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25

Reviewed and Approved _____ on 03/26/1996
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 03/18/96
Date Received: 03/18/96
Date Analyzed: 03/20/96

Work Order No.: 96-03-290
Method: EPA TO-14/1150.1 LIST

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: PPS #19

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.2
Methylene Chloride	2.8	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	0.6	0.2
Benzene	2.1	0.2
Carbon Tetrachloride	0.3	0.2
Toluene	4.5	0.2
Trichloroethene	ND	0.2
Tetrachloroethene	0.5	0.2
Chlorobenzene	ND	0.2
Total Xylenes	2.9	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	2.0	0.2
1,2-Dichlorobenzene	ND	0.2

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 03/18/96
Date Received: 03/18/96
Date Analyzed: 03/20/96

Work Order No.: 96-03-290
Method: EPA TO-14/1150.1 LIST

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS #35

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.2
Methylene Chloride	1.8	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	0.7	0.2
Benzene	1.5	0.2
Carbon Tetrachloride	0.2	0.2
Toluene	3.9	0.2
Trichloroethene	ND	0.2
Tetrachloroethene	0.5	0.2
Chlorobenzene	ND	0.2
Total Xylenes	2.4	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	2.2	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 03/18/96
Date Received: 03/18/96
Date Analyzed: 03/20/96

Work Order No.: 96-03-290
Method: EPA TO-14/1150.1 LIST

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: ISS #34

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.2
Methylene Chloride	2.4	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	0.8	0.2
Benzene	2.0	0.2
Carbon Tetrachloride	0.3	0.2
Toluene	4.7	0.2
Trichloroethene	ND	0.2
Tetrachloroethene	0.4	0.2
Chlorobenzene	ND	0.2
Total Xylenes	3.0	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	1.6	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 03/18/96
Date Received: 03/18/96
Date Analyzed: 03/20/96

Work Order No.: 96-03-290
Method: EPA TO-14/1150.1 LIST

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	1300	1000
Acetonitrile	ND	5000
1,1-Dichloroethene	ND	1000
Methylene Chloride	94200	1000
1,1-Dichloroethane	ND	1000
Chloroform	ND	1000
1,2-Dichloroethane	ND	1000
1,1,1-Trichloroethane	4000	1000
Benzene	7900	1000
Carbon Tetrachloride	ND	1000
Toluene	80200	1000
Trichloroethene	1300	1000
Tetrachloroethene	2800	1000
Chlorobenzene	7000	1000
Total Xylenes	136000	3500
Benzyl Chloride	ND	1000
1,3-Dichlorobenzene	ND	1000
1,4-Dichlorobenzene	ND	1000
1,2-Dichlorobenzene	ND	1000

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
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Date Sampled: 03/18/96
Date Received: 03/18/96
Date Analyzed: 03/20/96

Work Order No.: 96-03-290
Method: EPA TO-14/1150.1 LIST
Page 5 of 6

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	1
1,1-Dichloroethene	ND	0.2
Methylene Chloride	0.4	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	0.3	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Toluene	ND	0.2
Trichloroethene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	ND	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 03/18/96
Date Received: 03/18/96
Date Analyzed: 03/20/96

Work Order No.: 96-03-290
Method: EPA TO-14/1150.1 LIST

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

QA/QC

Sample Number: LCS/LCSD

Analyte	Spike Added	LCS	%REC	LCSD	%REC	Control Limits	%RPD	Control Limits
Benzene	10.0	10.43	104	10.30	103	60 - 140	1	0 - 30
Bromoform	10.0	8.07	81	7.59	76	60 - 140	6	0 - 30
Carbon Tetrachloride	10.0	10.49	105	10.43	104	60 - 140	1	0 - 30
1,1-Dibromoethane	10.0	9.16	92	8.55	86	60 - 140	7	0 - 30
1,2-Dichlorobenzene	10.0	8.25	83	8.10	81	60 - 140	2	0 - 30
1,4-Dichlorobenzene	10.0	7.92	79	7.96	80	60 - 140	1	0 - 30
1,2-Dichloroethane	10.0	10.59	106	10.32	103	60 - 140	3	0 - 30
1,2-Dichloropropane	10.0	10.72	107	10.42	104	60 - 140	3	0 - 30
cis-1,3-Dichloropropene	10.0	10.15	102	10.13	101	60 - 140	1	0 - 30
Tetrachloroethene	10.0	9.77	98	9.51	95	60 - 140	3	0 - 30
1,1,2-Trichloroethene	10.0	10.02	100	9.31	93	60 - 140	7	0 - 30
Trichloroethene	10.0	10.69	107	10.82	108	60 - 140	1	0 - 30
Vinyl Chloride	10.0	8.99	90	8.83	88	60 - 140	2	0 - 30

Reviewed and Approved _____ on 03/26/1996
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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(290)

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	3-18-96

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

FAX ~~213 233 4175~~ 213 233 4170

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
PPS #19	3-18 96	10:50 Am	G	1	PPS #19	✓	✓							
ISS #35	3-18 96	10:15 Am	C	1	ISS #35	✓	✓	✓						
ISS #34	3-18 96	9:49 Am	C	1	ISS #34	✓	✓	✓						
TSI	3-18 96	11:21 Am	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY-PRODUCTS	3:18 PM.	1:43 pm.
RECEIVED BY:	[illegible]	CALSCIENCE	3/18/96	1:43 P.M.
RELINQUISHED BY:	[illegible]	CALSCIENCE	3/18/96	2:34 P.M.
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	Calscience	3/18/96	1500

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EXHIBIT E

Documentation for Annual Requirements

First Quarter, 1996

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PENROSE LANDFILL Landfill Gas Generation

YEAR	Estimated Generation (MMBTU)	Collection Efficiency	Collected (MMBTU)
ACTUAL:			
1988	533,722	85.00%	453,664
1989	507,036	85.78%	434,912
1990	481,684	83.78%	403,572
1991	457,600	78.25%	358,055
1992	434,720	83.57%	363.291
1993	412,984	85.00%	389,842
1994	395,045	85.00%	335,788
1995	404,104	85.00%	343,488
PROJECTED:			
1996	383,899	85.00%	326,314
1997	364,704	85.00%	309,998
1998	346,469	85.00%	294,498
1999	329,145	85.00%	279,773
2000	312,688	85.00%	265,785
2001	297,054	85.00%	252,496
2002	282,201	85.00%	239,871
2003	268,091	85.00%	227,877
2004	254,686	85.00%	216,483
2005	241,952	85.00%	205,659

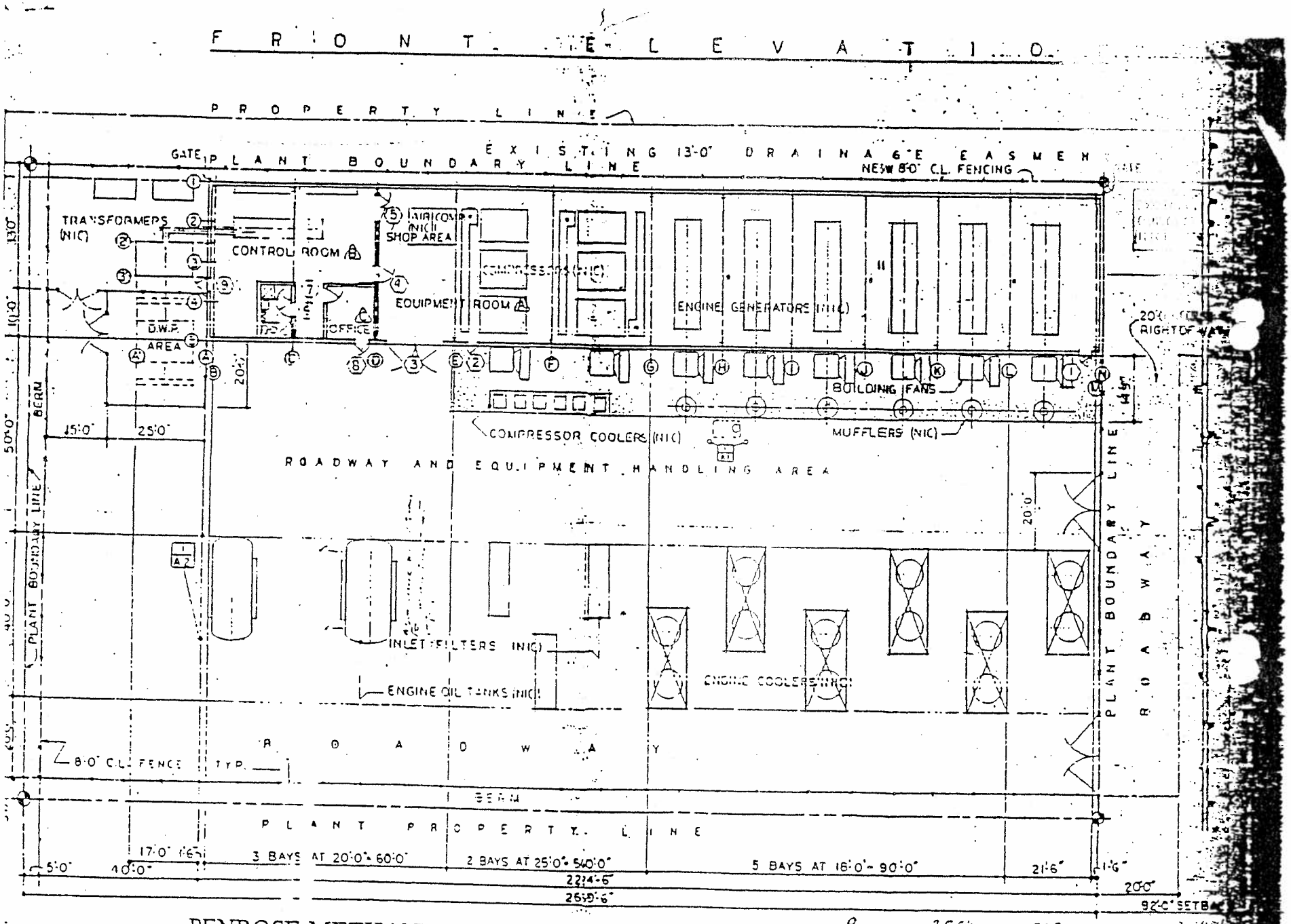
NOTES:

(1) The amount of landfill gas collected during the years 1988 through 1995 represents the actual amount of (Penrose) landfill gas burned at the Penrose electrical generation facility.

(2) The estimate of landfill gas being generated is based on an assumed 85% collection efficiency and an average decline in the generation of 5% each year.

(3) The 5% decline in landfill gas generation is based on Pacific Energy's experience with other landfills and the average annual gas generation decline, based on historical collection rates at Penrose.

(4) The "Projected" portion of this table was computer generated by Methane Specialists based on Pacific Energy's projection method. The "Actual" portion of this table are values from Pacific Energy.



PENROSE METHANE DISPOSAL SYSTEM

PLANT AND BUILDING PLAN

CONFIDENTIA

001926

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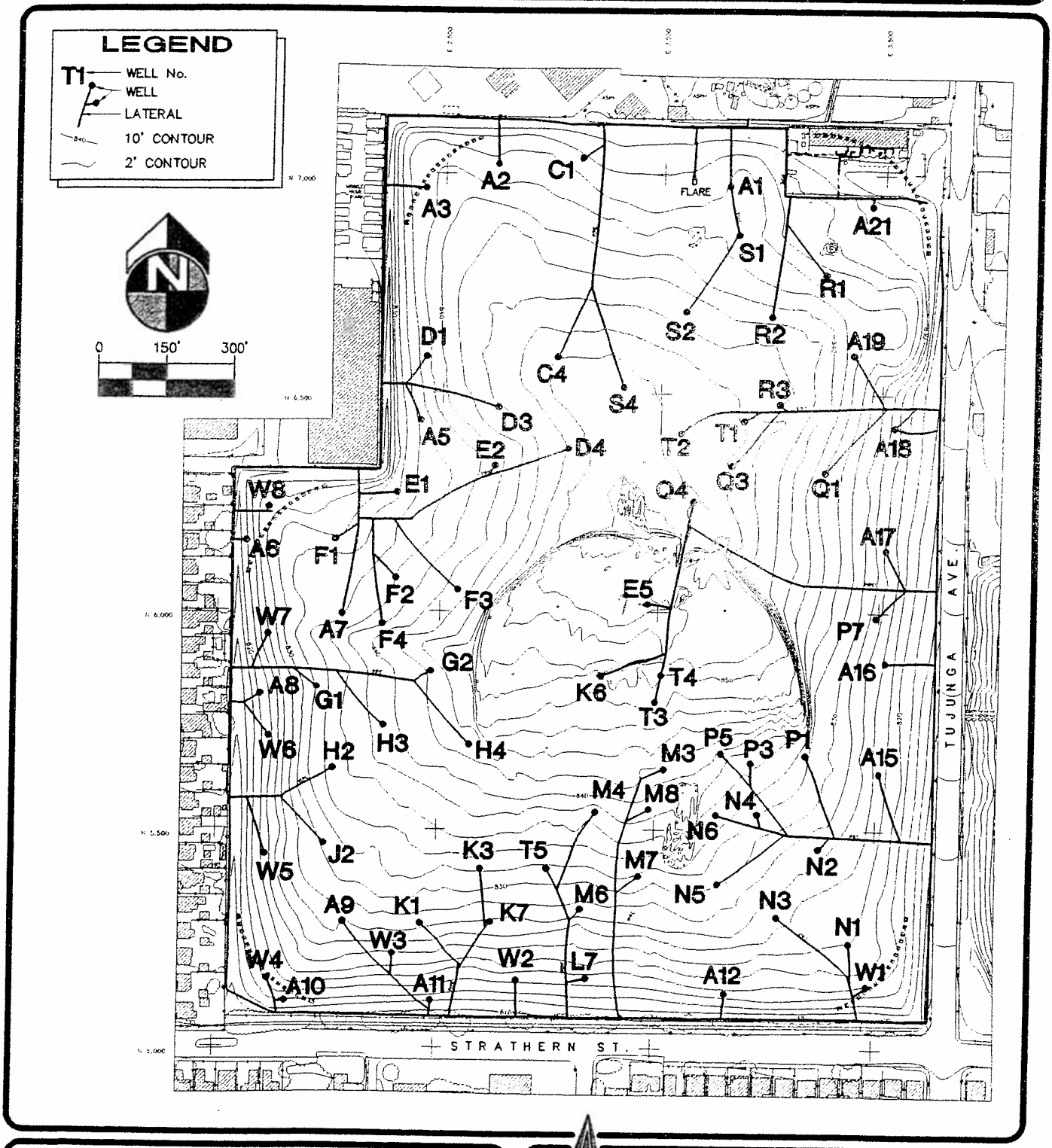
J152-6

PENROSE LANDFILL GAS COLLECTION SYSTEM



SEPICH ASSOCIATES, Inc.
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CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

4-23-96 WELL-SYS

SHEET ___ OF ___

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Sepich Associates Inc.

METHANE SPECIALISTS

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January 22, 1996

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Fourth Quarter, 1995
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the ninth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October through December, 1995.

During the previous monitoring period (July through September, 1995) the landfill was covered with geosynthetic clay liner (GCL) and a final soil layer as a phase of the landfill closure process. The GCL placement required temporary disconnection of landfill gas wells and destruction of some of the perimeter probes. All of the destroyed probes have been replaced. Replacement probe installation is discussed in Section D of this report.

Monitoring and sampling for this report was performed on October 5, 13, 24, and 31, November 8, 17, and 31, and December 6, 12, 19, and 20, 1995.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements. Rule 1150.1 also requires simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

R.M. Look @ pg. 9-10 New Probes

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B, Table I for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

2.7 As-built drawings showing identification numbers, locations, depths and other pertinent information of the perimeter probes installed in each reporting quarter shall be submitted to the District together with the quarterly report.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a maps showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection a of 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, October through December 1995, field monitoring was conducted on October 5, 13, 24, and 31, November 8, 17, and 30, and December 6, 12, 19, and 20. Perimeter probe, integrated surface, and power plant inlet samples were collected for laboratory analysis on October 31, November 30, and December 19, 1995.

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on October 13, October 24, November 8, November 17, December 6, and December 20, 1995 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 24 hours of sampling.

Perimeter probe sampling was conducted at Probe # 13 on October 31, at Probe # 26 on November 30, and at Probe # 10 on December 19, 1995. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on October 31, November 30, and December 19, 1995, by focusing sampling efforts in zones where TOC surface sampling had not previously been conducted. During instantaneous surface monitoring, no areas had TOC readings (greater than non-detect) in October, November, or December. Traverse grids for ISS sampling were selected to fill in areas that had not previously been sampled. In October Areas 37 and 36 were sampled (see Integrated Surface Sampling Map in Exhibit A -- note that this quarter's ISS map includes many grids traversed for this Rule 1150.1 compliance program), in November Areas 5 and 88 were sampled, and in December Areas 61 and 62 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for H_2S with a Dreager tube and the results were recorded on a Gas Concentration form. The ISS field monitoring results for the Fourth Quarter TOC and H_2S concentrations were all non-detect.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring Path A was traversed on October 5 and December 12, and Path B was traversed on November 30, 1995. In October, November, and December no TOC readings (greater than non-detect) registered on the OVA. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling

10-liter bag samples were collected from the Pacific Energy (PE) electrical generation plant inlet pipeline on October 31, November 30, December 19, 1995. TOC was monitored with a recently calibrated GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for hydrogen sulfide with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were collected on May 9, 1995 and results were reported in the second quarter report.

B.6 Reporting Requirements

This is the ninth in a series of quarterly reports and the fourth quarterly report for Penrose Landfill for 1995. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring had been performed bi-monthly by Positive Lab Service. After April 1994, their early (to mid-) month data was used to select the monthly probe sampling stations and their (mid to) late-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

October 24, 1995 perimeter probe monitoring results were all non-detect (ND). Probe 13 was sampled on October 31, 1995.

Table I - October 1995
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBE SAMPLED ON
October 31, 1995

Probe Number	Depth (feet)	Field Value 10/24/95 (% Vol)	Field Value 10/31/95 (% Vol)	Lab Results 10/31/95 (% Vol)	Follow-up Field Value 11/08/95 (% Vol)
13	5	ND	ND	0.00019	ND

Note: Laboratory samples were collected 10/31/95. Field values are volume percent TOC.

ND None detected.

November 17, 1995 perimeter probe monitoring results were all non-detect. Probe #26 was sampled on November 30, 1995. Analytical results from the November 30, 1995 sample recorded less than 1 part per million methane.

Table II - November 1995
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
ON NOVEMBER 30, 1995

Probe Number	Depth (feet)	Field Value 11/17/95 (% Vol)	Field Value 11/30/95 (% Vol)	Lab Result 11/30/95 (% Vol)	Follow-up Field Value 12/6/95 (% Vol)
26	3	ND	ND	<0.0001	ND

Note: Laboratory samples were collected 11/30/95. Laboratory results are volume percent of methane. Field values are volume percent TOC.

ND None detected

The December 6, 1995 perimeter probe monitoring results were all non-detect. Probe #10 was sampled on December 19, 1995. Analytical results from the December 19, 1995 sample was less than 1% methane by volume.

Table III - December 1995
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
ON DECEMBER 19, 1995

Probe Number	Depth (feet)	Field Value 12/6/95 (% Vol)	Field Value 12/19/95 (% Vol)	Lab Result 12/19/95 (% Vol)	Follow-up Field Value 12/20/95 (% Vol)
10	5	ND	ND	0.0003	ND

Note: Laboratory samples were collected 12/19/95. Laboratory results are volume percent of methane. Field values are volume percent TOC.

ND None detected

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" VOC by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FOURTH QUARTER 1995
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA		CH_4 (PPMV)	TGNMO (PPMV)
10/31/95	AREA # 36	<1	26.5
10/31/95	AREA # 37	<1	26.7
11/30/95	AREA # 5	8	72
11/30/95	AREA # 88	3	25
12/19/95	AREA # 61	10	61
12/19/95	AREA # 62	<1	<1

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibit A).

< Less than the detection limit given.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, there were no instantaneous surface monitoring OVA readings greater than non-detect during the Fourth Quarter of 1995.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 45.2% methane on October 31, 43.5% methane on November 30, and 41.1% methane on December 19, 1995. Analytical results for fixed gases, NMHC, and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

PE conducted source test sampling on May 9, 1995. At that time LA By-Products Company sampled from an inlet containing Penrose gas only. PE's source test samples are from the mixture of landfill gas from Penrose, Sheldon, and Bradley landfills, that is being burned at the plant. The analytical results from the samples collected on May 9, 1995 were included in Second Quarter report.

C.6 Report Requirements

This report constitutes the 1995, Fourth Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the monitoring and laboratory results, mitigation measures are implemented as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

High methane readings in the probes prompted Los Angeles By-Products Company and Pacific Energy to institute a mitigation well program in the Spring of 1994. Adjusting flow rates at the wells to manipulate methane at the probes is an on-going process that has been successful in reducing methane concentrations at the probes.

During the previous monitoring period the landfill was covered with geosynthetic clay liner (GCL) and a final soil layer as a phase of the landfill closure process. The GCL placement process resulted in destruction of many of perimeter probes. Shallow perimeter probes (previous probes numbered # 1 through # 8 along Tujunga Avenue) were replaced by LABPCo by driving perforated 1/2-inch X 6-foot long galvanized steel pipe 5 feet into the ground in the vicinity of original probes. These replacement probes are not located in the exact locations of the original probes and are numbered with their original number followed by an "A" (see probe location map in Exhibit A). A few of the shallow perimeter probes along the south, west, and north perimeters have also been replaced, but in almost the exact locations of the original probes (these have also been suffixed with an A).

Some deeper probes that were destroyed had been replaced by probe clusters in 1994 with comparable or more depths of investigation (Probe H was 20 feet from Probes T and T-1 which has depths of investigation of 10 feet, 40 feet, and 73 feet; and Probe I was 10 feet from Probe V which has depths of investigation of 10 feet, 40 feet, and 73 feet).

On November 24, 1995, three borings were drilled for installation of 1/2 inch diameter PVC methane monitoring probes. The locations of the three probes are included on the probe location map in Exhibit A.

The borings were drilled by Absher Drilling Company, under the observation of a Sepich Associates geologist. The three probes, designated A-1, J-1, and K-1, were drilled and constructed to (refusal) depths of 23 feet, 24.5 feet, and 17.5 feet, respectively, using a truck-mounted drilling rig equipped with an 8-inch-diameter hollow-stem flight auger. The boring logs, probe construction details, are presented in Exhibit E.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37609
JUN. 30 1996
CIVIL
STATE OF CALIFORNIA

Sincerely,
Sepich Associates, Inc.

John Sepich, P.E.
President

J152rept.609/atf

CONFIDENTIAL

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Ms. Tania Weaver

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location Map, Integrated Surface Sampling Map and Traverse Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Fourth Quarter, 1995
- EXHIBIT D: Laboratory Analytical Results - Fourth Quarter, 1995
- EXHIBIT E: Boring Logs and Probe Details

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EXHIBIT A

Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

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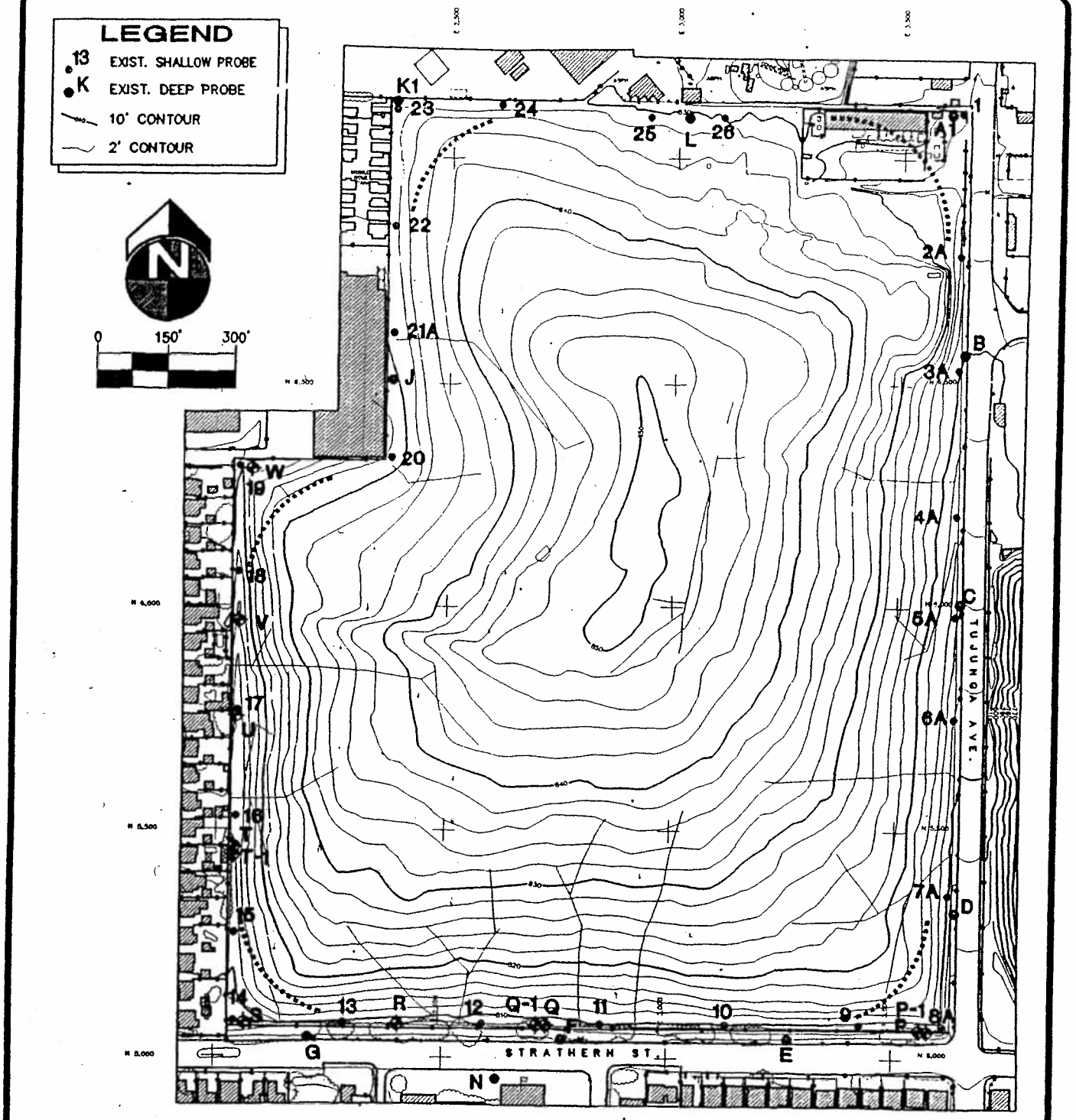
J152-6

PENROSE LANDFILL
MONITORING PROBE LOCATIONS



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WASTE AND
GAS CONTROL
SPECIALISTS

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Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
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1-23-96 J152-6PL

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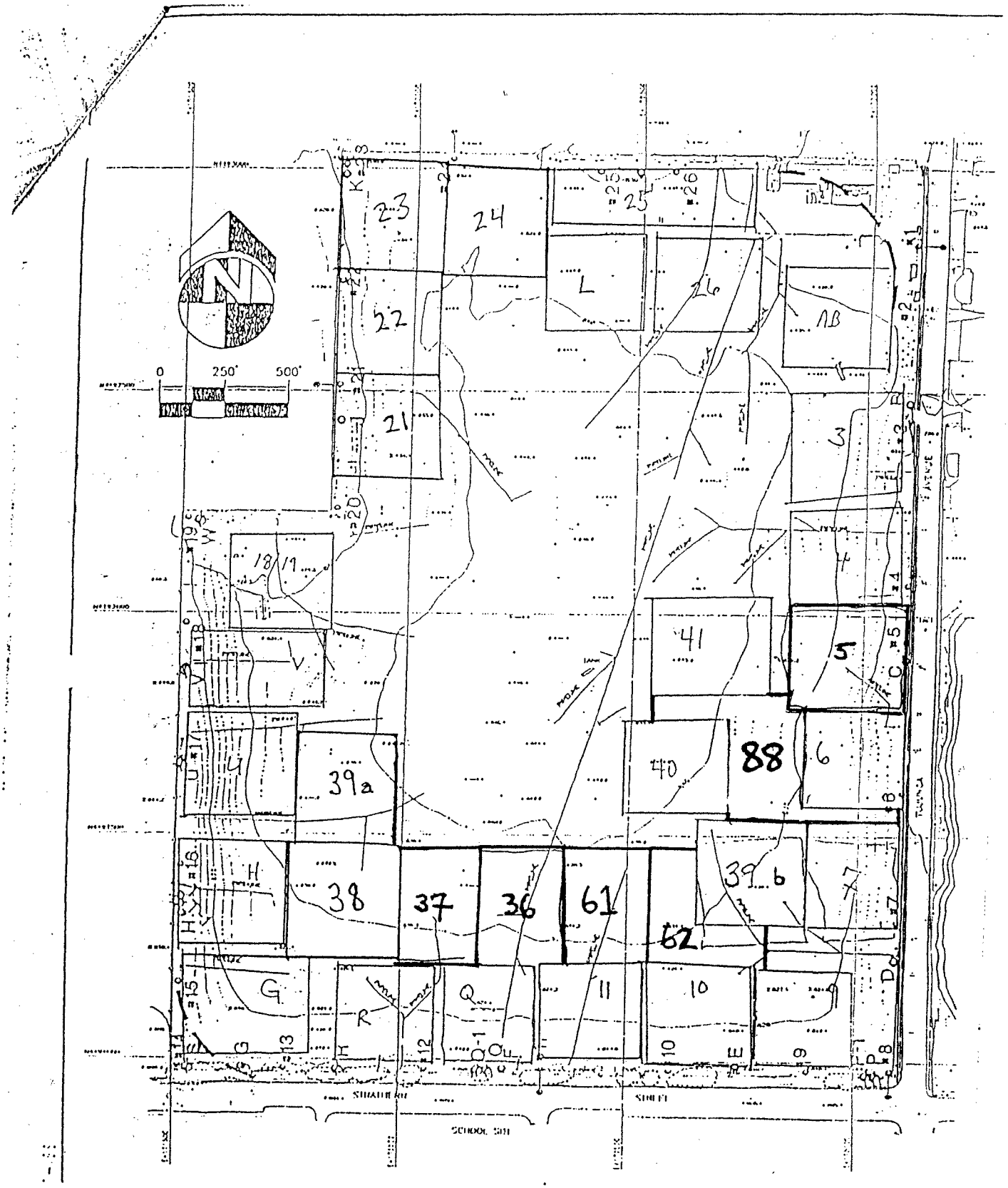

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PENROSE LANDFILL

INTEGRATED SURFACE SAMP

SHEET

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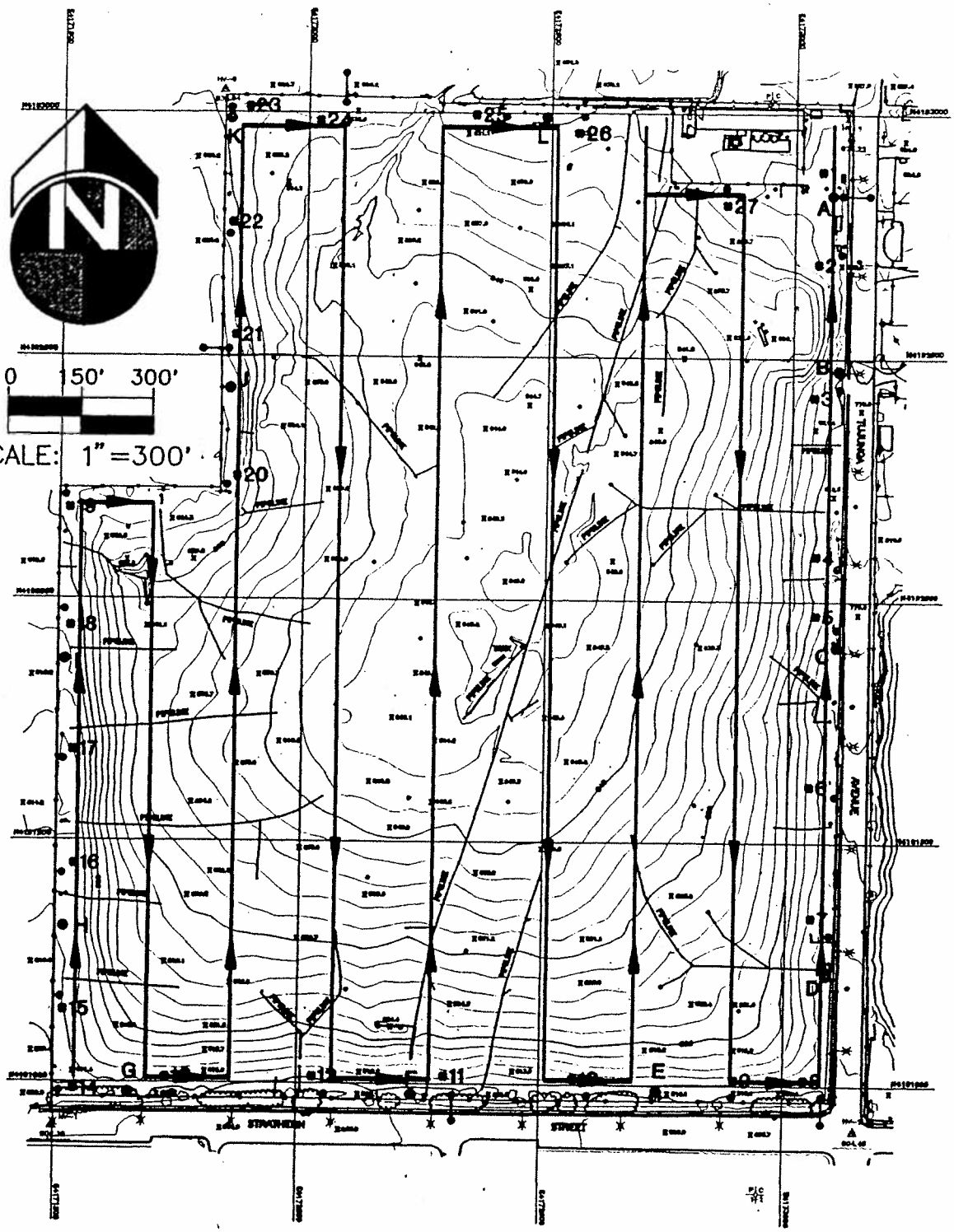
INSTANTANEOUS SURFACE MONITORING



PATH A

Drawing prepared by:
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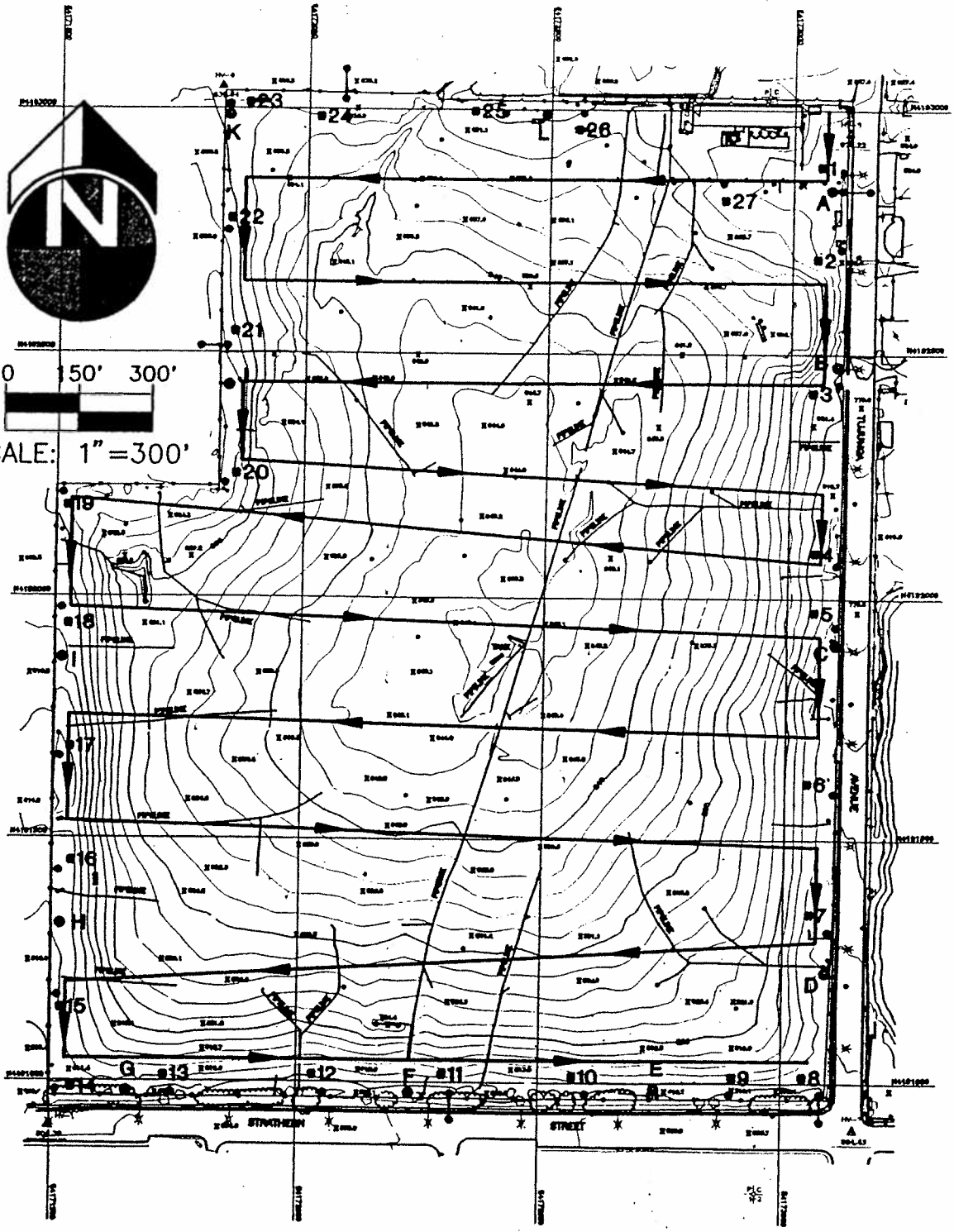
INSTANTANEOUS SURFACE MONITORING



PATH B

Drawing prepared by:
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EXHIBIT B

Core Group Toxic Air Contaminants

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TABLE 1: TOXIC AIR CONTAMINANTS -- CORE GROUP

1. Acetonitrile CH_3CN
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1 Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2 Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1 Dichloroethene (Vinylidene Chloride) $CH_2:CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C:CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1 Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichloroethylene $CHCl:CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2:CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Fourth Quarter, 1995

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. JL52-6
DATE 10/5/95

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR (ISM)

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was cool with hazy cloud cover. Last precipitation was over 1 month ago. OVA instrument used in monitor was A FOXBORO 128, last calibrated on 10/5/95 by Robert McAllister at 7:20 am. There was no detectable wind at the beginning of monitor, but by the end a south breeze at 3.4 mph. was recorded by an electronic wind speed indicator. Contractor followed path 'A'. The monitor was ND, with No detections above 500 ppm.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JSA0075 4/15/94

SHEET ___ OF ___

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[redacted]

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

October 25, 1995

FILE NO: 72986

LAB NO: 5293093600

SAMPLE: On 10/13/95 at 16:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	ND
2	ND	14	ND	26	ND	N	(3)*
3	ND	15	ND	A1	ND	P	(4)
4	ND	16	ND	B	ND	P1@120'	ND
5	ND	17	ND	C	ND	Q	(5)*
6	ND	18	ND	D	ND	Q1	(6)*
7	ND	19	ND	E	ND	R	(7)*
8	ND	20	ND	F	ND	S	(8)*
9	ND	21	ND	G	ND	T	(9)*
10	ND	22	ND	H	(2)*	T1-72'	ND
11	ND	23	ND	J1	ND	U	(10)*
12	ND	24	ND	K	ND	V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

October 25, 1995

FILE NO: 72986

LAB NO: 5293093600

(1) Site C	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Ql	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

November 1, 1995

FILE NO: 70237

LAB NO: 5300171400

SAMPLE: On 10/24/95 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	ND
2	ND	14	ND	26	ND	N	(3)*
3	ND	15	ND	A1	ND	P	(4)
4	ND	16	ND	B	ND	P1@120'	ND
5	ND	17	ND	C	ND	Q	(5)*
6	ND	18	ND	D	ND	Q1	(6)*
7	ND	19	ND	E	ND	R	(7)*
8	ND	20	ND	F	ND	S	(8)*
9	ND	21	ND	G	ND	T	(9)*
10	ND	22	ND	H	(2)*	T1-72'	ND
11	ND	23	ND	J1	ND	U	(10)*
12	ND	24	ND	K	ND	V	(11)*
						W	(12)*

*See following page for methane results

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Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

November 1, 1995

FILE NO: 70237

LAB NO: 5300171400

(1) Site C	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6
DATE 10/31/95

INSPECTION REPORT

CLIMATE: bright, clear, fog | cloudy, overcast, rain | <32° F, 33°-55°, 56°-70° | 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE LANDFILL

ISS = Instantaneous Surface Sample
TSI = Treatment System Inlet

PURPOSE: ISS, TSI, PPS = Perimeter Probe Sample

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was cloudy & overcast with no evidence of wind. Last recorded precipitation was over one month ago.

The OVA instrument used in testing was the FOXBORO 128 last calibrated on 10/31/95 at 7:20 am, by Robert McAllister. The TOC instrument used to test TSI and PPS was a Natural Gas Indicator model npl-28 last calibrated at 9:10 am 3-20-95 by Tony Robinson at P.E. H_2S tests were done with Dräger tubes and a dräger pump. All air samples were collected into 10-liter Tedlar bags and placed in

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JS2007R 4/15/94

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 10/31/95

REMARKS CONTINUED: a Black Trash bag to protect from Sunlight. The integrated surface surface sampler used to collect ISS Samples was a portable self-contained unit with its own power source (internal), which collected samples at 400 cc/min.

At 8:36 AM ISS 37 was collected and tested for H_2S -ND- and OVA -ND-. At 9:07 am ISS 36 was collected and tested for H_2S -ND- and OVA -ND-. PPS probe 13 was collected at 9:43 am and tested for TOC -ND- and H_2S -ND-. The TSI was collected at 10:27am and tested for H_2S -85 ppm- and TOC -46%-.

Robert Mallette
INSPECTOR

PRINCIPAL

001052

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Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 211-4170

PENROSE LANDFILL

Date 10/31/95
Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		

REMARKS:
ISS 37/8:36 Am
ISS 36/9:07 Am
PPS 13/9:43 Am
TSI 10:27 Am

PROBE #			PROBE #			PROBE #		H_2S	TOC
1						Q	10'		
2			B				40'		
3			C	GREEN-21'			75'		
4				YELLOW-41'		Q-1	120'		
5				ORANGE-61'			158'		
6				RED-81'		R	10'		
7			D				40'		
8			E				80'		
9			F				120'		
10			G			S	10'		
11			H				40'		
12	TOC	H_2S	I	GREEN-17'			80'		
13	ND	ND		YELLOW-37'			120'		
14				ORANGE-57'		T	10'		
15				RED-77'			40'		
16			J				73'		
17			K			T-1	72'		
18			L	GREEN-45'		U	10'		
19				YELLOW-65'			37'		
20				ORANGE-85'			68'		
21				RED-105'		V	10'		
22			M				40'		
23			N	GREEN-22'			73'		
24				YELLOW-45'		W	10'		
25				ORANGE-68'			40'		
26				RED-90'			80'		
	OVA	H_2S	P	10'			120'		
ISS 37	ND	ND		40'			158'		
ISS 36	ND	ND		80'					
			P-1	120'			TSI	0.5ppm	4.9

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8982

Form prepared by:

001954

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POSITIVE LAB SERVICE

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Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

November 21, 1995

FILE NO: 72986

LAB NO: 5320153500

SAMPLE: On 11/08/95 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	ND
2	ND	14	ND	26	ND	N	(3)*
3	ND	15	ND	A1	ND	P	(4)
4	ND	16	ND	B	ND	P1@120'	ND
5	ND	17	ND	C	ND	Q	(5)*
6	ND	18	ND	D	ND	Q1	(6)*
7	ND	19	ND	E	ND	R	(7)*
8	ND	20	ND	F	ND	S	(8)*
9	ND	21	ND	G	ND	T	(9)*
10	ND	22	ND	H	(2)*	T1-72'	ND
11	ND	23	ND	J1	ND	U	(10)*
12	ND	24	ND	K	ND	V	(11)*
						W	(12)*

*See following page for methane results

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Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

November 21, 1995

FILE NO: 72986

LAB NO: 5320153500

(1) Site C	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/10/95

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR (ISM)

CONTRACTOR(S): ROBERT McAllister

REMARKS: Attempted a monitor, HOWEVER the battery power was to LOW, and FOXBORO INSTRUMENT WOULD NOT PROPERLY FUNCTION, so the monitor was Aborted.

☒ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JSA0075 4/15/94

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POSITIVE LAB SERVICE

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(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 900430

December 5, 1995

FILE NO: 70237

LAB NO: 5334105700

SAMPLE: On 11/17/95 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	ND
2	ND	14	ND	26	ND	N	(3)*
3	ND	15	ND	A1	ND	P	(4)
4	ND	16	ND	B	ND	P1@120'	ND
5	ND	17	ND	C	ND	Q	(5)*
6	ND	18	ND	D	ND	Q1	(6)*
7	ND	19	ND	E	ND	R	(7)*
8	ND	20	ND	F	ND	S	(8)*
9	ND	21	ND	G	ND	T	(9)*
10	ND	22	ND	H	(2)*	T1-72'	ND
11	ND	23	ND	J1	ND	U	(10)*
12	ND	24	ND	K	ND	V	(11)*
						W	(12)*

*See following page for methane results

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[redacted]

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

December 5, 1995

FILE NO: 70237

LAB NO: 5334105700

(1) Site C	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn: Robert McAllister

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/30/95

INSPECTION REPORT

CLIMATE: bright / (clear) / fog — cloudy / overcast / rain — <32° F / 33°-55° / 56°-70° — 71°-85° / (86°-100) / >100° F — (still) / breeze / wind — dry / (moderate) / humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: What a Beautiful DAY!!!! Not a cloud in the sky. NO WIND, but there was very bright Sunshine. Last recorded precipitation was over three weeks ago. OVA instrument used in monitor was a FOXBORO 128, last calibrated on 11/30/95 at 7:15 am, by Robert McAllister

Monitor began at 9:15 am and ended at 11:03 am. There were no readings above 500 ppm. or below, thus the monitor was recorded as ND. Contractor followed Path 'B'.

Note: Battery of FOXBORO INSTRUMENT WAS REPLACED.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JSA0075 4/15/94

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 11/30/95

INSPECTION REPORT

CLIMATE: bright / clear / fog — cloudy / overcast / rain; <32° F / 33°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F; still / breeze / wind; dry / moderate / humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: A BEAUTIFUL DAY!! No detectable wind by an electronic wind speed indicator. Last precipitation was over three weeks ago. Not a cloud in the SKY!

The instruments used to test collected air samples were the FOXBORO OVA, Gastech TOC and Drager tubes and pump for H_2S. Foxboro 128 was last calibrated by Robert McAllister on 11/30/95 at 7:15 am. The Gastech np1-28 was last calibrated on 3-20-95 at 9:10 am. by Tony Robinson at P.E. All air sample were collected in

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JSA0075 4/15/94

SHEET OF

001961

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9371
FAX: (818) 707-3012 (805) 373-8907

JOB NAME
PENROSE

J152-6
11 30 95

REMARKS CONTINUED: 10-liter Tedlar Bags and placed in a large Black trash bag to protect from Sunlight. The integrated surface sampler used to collect ISS samples was a portable self-contained unit with its own power (internal) power source, which collected samples at 400 cc/min.

At 11:21am pps 26 was collected and tests with TOC-ND and H_2S-ND. At 11:43 am the TSI was collected and tests TOC-50% and H_2S-80ppm. At 11:57am ISS 5 was collected and tests OVA-ND and H_2S-ND. At 12:18 Am. ISS 88 was collected and tests with OVA-ND and H_2S-ND.

Robert Mc allister
INSPECTOR

PRINCIPAL

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 11/30/85
Job # SV-12-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25	TOC	H_2S
26	ND	ND
TSI	50%	80ppm

REMARKS:
PPS 26 11:21 am
TSI 11:43 am
ISS 5 11:57 Am
ISS 88 12:18 AM

PROBE #				
B				
C	GREEN-21'			
	YELLOW-41'			
	ORANGE-61'			
	RED-81'			
D				
E				
F				
G				
H				
I	GREEN-17'			
	YELLOW-37'			
	ORANGE-57'			
	RED-77'			
J				
K				
L	GREEN-45'			
	YELLOW-65'			
	ORANGE-85'			
	RED-105'			
M				
N	GREEN-22'			
	YELLOW-45'			
	ORANGE-68'			
	RED-90'			
P	10'			
	40'			
	80'			

PROBE #				
Q	10'			
	40'			
	75'			
Q-1	120'			
	158'			
R	10'			
	40'			
	80'			
	120'			
S	10'			
	40'			
	80'			
	120'			
T	10'			
	40'			
	73'			
T-1	72'			
U	10'			
	37'			
	68'			
V	10'			
	40'			
	73'			
W	10'			
	40'			
	80'			
	120'			
	158'	OVA	H_2S	
	ISS 5	ND	ND	

For [illegible]d by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3036 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8982

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DEC- 7-95 THU 12:45 CALSCIENCE P.1

(5H1)

JOB NAME: PENROSE LANDFILL — PERIMETER PROBE SAMPLES, PLANT INLET SAMPLE

FILE (JOB#): J152-6

DATE: 11/30/95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

	SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
PPS 26	[redacted]	11/30/95	11:21 Am	G	1	PPS 26	✓	✓							
TSI		11/30/95	11:43 Am	G	1	TSI	✓	✓						✓	
ISS 5		11/30/95	11:57 Am	C	1	ISS 5	✓	✓		✓					
ISS 38		11/30/95	12:18 Am	C	1	ISS 88	✓	✓		✓					

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	11-30-95	12:30 Am
RECEIVED BY:	[illegible]	CALSCIENCE	11-30-95	12:30 P.M.
RELINQUISHED BY:	[illegible]	CALSCIENCE	11-30-95	12:35
RECEIVED BY:				
RELINQUISHED BY:	[illegible]			

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[redacted]

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

January 11, 1996

FILE NO: 72986

LAB NO: 6010145200

SAMPLE: On 12/06/95 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	ND
2	ND	14	ND	26	ND	N	(3)*
3	ND	15	ND	A1	ND	P	(4)
4	ND	16	ND	B	ND	P1@120'	ND
5	ND	17	ND	C	ND	Q	(5)*
6	ND	18	ND	D	ND	Q1	(6)*
7	ND	19	ND	E	ND	R	(7)*
8	ND	20	ND	F	ND	S	(8)*
9	ND	21	ND	G	ND	T	(9)*
10	ND	22	ND	H	(2)*	T1-72'	ND
11	ND	23	ND	J1	ND	U	(10)*
12	ND	24	ND	K	ND	V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllisted
1810 East 25th Street
Los Angeles, CA 90058

January 11, 1996

Page 2

FILE NO: 72986

LAB NO: 6010145200

(1) Site C	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. Robert McAllister

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 12/12/95

INSPECTION REPORT

CLIMATE: bright, clear, fog, (cloudy) overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | (still) breeze, wind | dry, (moderate) humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was cloudy with moist air and a slight south breeze at 2.4 to 3.9 mph. (Wind was determined by an electronic wind speed indicator). Instrument used in monitor was FOXBORO 128 last calibrated on 12/12/95 at 7:23 am. by ROBERT McAllister. Last precipitation was over 2 weeks ago. Contractor followed PATH "A" and found no detections recording a ND for Monitor. Monitor began at 8:51 am and ended at 10:13 am.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JSA0025 4/15/94

SHEET__OF__

001067

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 12/19/95

INSPECTION REPORT

CLIMATE: bright, (clear), fog, cloudy, overcast, rain | <32° F, 33°-55°, (56°-70°), 71°-85°, 86°-100°, >100° F | (still), breeze, wind | dry, (moderate), humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was COLD with Clear Skies and No detectable wind according to an electronic wind speed indicator. Last precipitation was over two weeks ago.

Instrument used for OVA tests of ISS samples was the FOXBORO 128 last calibrated on 12/18/95 at 7:42 AM by ROBERT McAllister. The TOC meter used for PPS and TSI was a Gastech model 1pl-28 last calibrated on 3-20-95 at 9:10 am by Toni Robinson at P.E. H_2S levels for all Samples were determined

☐ REINSPECTION REQUIRED

Robert mc allister
INSPECTOR

PRINCIPAL

JS40075 4/15/94

SHEET__OF__

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 12/19/95

REMARKS CONTINUED: by a Drager Pump and Drager tubes. All air samples were collected in 10-liter air bags and placed in a large Black Trash Bag for protection from Sunlight. ISS samples were collected by a self-contained unit with its own internal power source, which collected samples at 400 cc/min.

The TSI sample was taken at 7:38 AM with H_2S at 60 ppm and TOC at 43%. ISS 61 was taken at 8:07 AM with OVA at ND and H_2S at ND. ISS 62 was taken at 8:28 AM with OVA at ND and H_2S at ND. PPS 10 was taken at 9:11 AM with H_2S at ND and TOC at ND.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 12-19-95

Job # 3652-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1	H_2S	TOC
2		
3		
4		
5		
6		
7		
8		
9		
10	ND	ND
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
TSI	60 ppm	43%

REMARKS:
TSI 7:38 Am
ISS 61 8:07 Am
ISS 62 8:28 Am
PPS 10 9:11 Am -
Clear skies with Bright Sunshine
COLD !!!

PROBE #			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #			
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'	OVA	H_2S
	ISS 61	ND	ND
	ISS 62	ND	ND

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8982

For [illegible]ed by:

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JOB NAME		FILE (JOB #)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	12-19-95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC			CH_4			Fixed Gas	REMARKS
TSI	12-19 95	7:38 Am	G	1	TSI	✓	✓						✓	
ISS 61	12-19 95	8:07 Am	C	1	ISS #61	✓	✓			✓				
ISS 62	12-19-95	8:28 Am	C	1	ISS #62	✓	✓			✓				
	12-19 95	9:11 Am		1	PPS # 10	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	12-19-95	9:37 Am
RECEIVED BY:	[illegible]	L.A. BY-PRODUCTS	12-19-95	9:31 AM
RELINQUISHED BY:	[illegible]	L.A. BY-PRODUCTS	12-20-95	10:04 AM
RECEIVED BY:	[illegible]	CALSCIENCE	12-20-95	10:04 AM
RELINQUISHED BY:	[illegible]	CALSCIENCE	12-20-95	1330
RECEIVED BY:	[illegible]	Calscience	12/20/95	1330

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

January 11, 1996

FILE NO: 70237

LAB NO: 5363192000

SAMPLE: On 12/20/95 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	L	ND
2	ND	14	ND	26	ND	N	(3)*
3	ND	15	ND	A1	ND	P	(4)
4	ND	16	ND	B	ND	P1@120'	1.0
5	ND	17	ND	C	ND	Q	(5)*
6	ND	18	ND	D	ND	Q1	(6)*
7	ND	19	ND	E	ND	R	(7)*
8	ND	20	ND	F	ND	S	(8)*
9	ND	21	ND	G	ND	T	(9)*
10	ND	22	ND	H	(2)*	T1-72'	ND
11	ND	23	ND	J1	ND	U	(10)*
12	ND	24	ND	K	ND	V	(11)*
						W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

January 11, 1996

FILE NO: 70237

LAB NO: 5363192000

(1) Site C	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	@ 80'	ND
Green	ND	Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. Robert McAllister

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EXHIBIT D

Laboratory Analytical Results - Fourth Quarter, 1995

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

LA By Products c/o Sepich & Associates 3617 East Thousand Oaks Blvd., #303 Westlake Village, CA 91362		Date Sampled: Date Received: Date Analyzed:	10/31/95 10/31/95 11/02/95
Attn: Robert McAllister RE: Penrose Landfill/J152-6		Work Order No.: Method: Page 1 of 3	95-10-490 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS 37

Analyte	Concentration	Reportable Limit
Methane	ND	1.0
TGNMO	26.7	1.0

Sample Number: ISS 36

Methane	ND	1.0
TGNMO	26.5	1.0

Sample Number: PPS 13

Methane	1.9	1.0
TGNMO	38.6	1.0

Sample Number: TSI

Oxygen	12000	1000
Nitrogen	147000	1000
Methane	452000	1000
Carbon Dioxide	384000	1000
Carbon Monoxide	ND	2.0
TGNMO	322	1.0

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

LA By Products c/o Sepich & Associates 3617 East Thousand Oaks Blvd., #303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	10/31/95 10/31/95 11/02/95
Attn: Robert McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 2 of 3	95-10-490 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Dioxide	ND	1000
Methane	ND	1.0
Carbon Monoxide	ND	2.0
TGNMO	ND	1.0

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Calscience Environmental Laboratories, Inc.

ACCREDITED

ANALYTICAL REPORT

LA By Products
c/o Sepich & Associates
3617 East Thousand Oaks Blvd., #303
Westlake Village, CA 91362

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

Date Sampled: 10/31/95
Date Received: 10/31/95
Date Analyzed: 11/02/95

Work Order No.: 95-10-490
Method: SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limit(%)
Sample Number: ISS 37 (Duplicate)				
Oxygen	214000	213000	0	0 - 25
Nitrogen	800000	794000	1	0 - 25
Methane	ND	ND	NA	0 - 25
Carbon Dioxide	ND	ND	NA	0 - 25
Carbon Monoxide	357	356	1	0 - 25
TGNMO	26.7	31.8	18	0 - 25

Reviewed and Approved _____ on 11/08/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Attn: Robert McAllister
RE: Penrose Landfill/J152-6

Date Sampled: 10/31/95
Date Received: 10/31/95
Date Analyzed: 11/01/95

Work Order No.: 95-10-490
Method: EPA TO-14 (1150.1)

All concentrations are reported in ppb (v/v).

Sample Number: ISS 37

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	4
Acetonitrile	ND	10
1,1-Dichloroethene	ND	4
Methylene Chloride	79	10
1,1-Dichloroethane	ND	4
Chloroform	ND	4
1,2-Dichloroethane	ND	4
1,1,1-Trichloroethane	12	4
Benzene	4	4
Carbon Tetrachloride	ND	4
Trichloroethene	ND	4
Toluene	19	4
Tetrachloroethene	34	4
Chlorobenzene	ND	4
Total Xylenes	72	8
Benzyl chloride	ND	4
1,3-Dichlorobenzene	ND	4
1,4-Dichlorobenzene	4	4
1,2-Dichlorobenzene	ND	4

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RE: Penrose Landfill/J152-6

Date Sampled: 10/31/95
Date Received: 10/31/95
Date Analyzed: 11/01/95

Work Order No.: 95-10-490
Method: EPA TO-14 (1150.1)

All concentrations are reported in ppb (v/v).

Sample Number: ISS 36

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	4
Acetonitrile	ND	10
1,1-Dichloroethene	ND	4
Methylene Chloride	47	10
1,1-Dichloroethane	ND	4
Chloroform	ND	4
1,2-Dichloroethane	ND	4
1,1,1-Trichloroethane	5	4
Benzene	ND	4
Carbon Tetrachloride	ND	4
Trichloroethene	ND	4
Toluene	27	4
Tetrachloroethene	12	4
Chlorobenzene	11	4
Total Xylenes	70	8
Benzyl chloride	ND	4
1,3-Dichlorobenzene	ND	4
1,4-Dichlorobenzene	ND	4
1,2-Dichlorobenzene	ND	4

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Attn: Robert McAllister
RE: Penrose Landfill/J152-6

Date Sampled: 10/31/95
Date Received: 10/31/95
Date Analyzed: 11/01/95

Work Order No.: 95-10-490
Method: EPA TO-14 (1150.1)

All concentrations are reported in ppb (v/v).

Sample Number: PPS 13

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.4
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.4
Methylene Chloride	1.8	1.0
1,1-Dichloroethane	ND	0.4
Chloroform	ND	0.4
1,2-Dichloroethane	ND	0.4
1,1,1-Trichloroethane	1.0	0.4
Benzene	1.3	0.4
Carbon Tetrachloride	ND	0.4
Trichloroethene	ND	0.4
Toluene	3.7	0.4
Tetrachloroethene	ND	0.4
Chlorobenzene	ND	0.4
Total Xylenes	4.3	0.8
Benzyl chloride	ND	0.4
1,3-Dichlorobenzene	ND	0.4
1,4-Dichlorobenzene	ND	0.4
1,2-Dichlorobenzene	ND	0.4

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Attn: Robert McAllister
RE: Penrose Landfill/J152-6

Date Sampled: 10/31/95
Date Received: 10/31/95
Date Analyzed: 11/01/95

Work Order No.: 95-10-490
Method: EPA TO-14 (1150.1)

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Vinyl Chloride	ND	800
Acetonitrile	ND	2000
1,1-Dichloroethene	ND	800
Methylene Chloride	2840	2000
1,1-Dichloroethane	ND	800
Chloroform	ND	800
1,2-Dichloroethane	ND	800
1,1,1-Trichloroethane	ND	800
Benzene	1040	800
Carbon Tetrachloride	ND	800
Trichloroethene	ND	800
Toluene	14600	800
Tetrachloroethene	ND	800
Chlorobenzene	ND	800
Total Xylenes	10600	1600
Benzyl chloride	ND	800
1,3-Dichlorobenzene	ND	800
1,4-Dichlorobenzene	ND	800
1,2-Dichlorobenzene	ND	800

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Attn: Robert McAllister
RE: Penrose Landfill/J152-6

Date Sampled: 10/31/95
Date Received: 10/31/95
Date Analyzed: 11/01/95

Work Order No.: 95-10-490
Method: EPA TO-14 (1150.1)

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Vinyl Chloride	ND	0.2
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	ND	0.5
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	ND	0.2
Toluene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	ND	0.4
Benzyl chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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3617 East Thousand Oaks Blvd., #303
Westlake Village, CA 91362

Attn: Robert McAllister
RE: Penrose Landfill/J152-6

Date Sampled: 10/31/95
Date Received: 10/31/95
Date Analyzed: 11/01/95

Work Order No.: 95-10-490
Method: EPA TO-14 (1150.1)

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limit(%)
Sample Number: 95-10-462-1 (Duplicate)				
Vinyl Chloride	328	292	12	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	280	260	7	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 - 30
1,1,1-Trichloroethane	84	76	10	0 - 30
Benzene	ND	ND	NA	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	ND	ND	NA	0 - 30
Toluene	368	308	18	0 - 30
Tetrachloroethene	ND	ND	NA	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30
Total Xylenes	248	204	19	0 - 30
Benzyl chloride	ND	ND	NA	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved William H. Christensen on 11/08/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — PERIMETER PROBE SAMPLES, PLANT INLET SAMPLE	J152-6	10/31/95

CHAIN OF CUSTODY RECORD

SHEET___OF___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
ISS 37	10/31/95	8:36 AM	C	1	ISS 37	✓	✓	✓						
ISS 36	10/31/95	9:07 AM	C	1	ISS 36	✓	✓	✓						
PPS 13	10/31 95	9:43 AM	G	1	PPS 13	✓	✓							
TSI	10/31 95	10:27 AM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY BY PRODUCTS	10/31/95	9:47 AM
RECEIVED BY:	[illegible]	L.A. BY-PRODUCTS	10-31-95	9:47 AM
RELINQUISHED BY:	[illegible]	L.A. BY-PRODUCTS	10-31-95	2:01 PM
RECEIVED BY:	[illegible]	CALSCIENCE	10-31-95	2:01 PM
RELINQUISHED BY:	[illegible]	CALSCIENCE	10-31-95	15:58
RECEIVED BY:	[illegible]	Calscience	10/31/95	16:00

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd. #303
Westlake Village, CA 91362

Date Sampled: 11/30/95
Date Received: 11/30/95
Date Analyzed: 12/01/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-11-541
Method: SCAQMD 25.1
Page 1 of 2

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: PPS 26

Analyte	Concentration	Reportable Limit
Methane	ND	1
TGNMO	12	1

Sample Number: TS1

Oxygen	13000	1000
Nitrogen	146000	1000
Methane	435000	1000
Carbon Dioxide	380000	1000
Carbon Monoxide	ND	2
TGNMO	346	1

Sample Number: ISS 5

Methane	8	1
TGNMO	72	1

Sample Number: ISS 88

Methane	3	1
TGNMO	25	1

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Date Sampled: 11/30/95
Date Received: 11/30/95
Date Analyzed: 12/01/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-11-541
Method: SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Dioxide	ND	1000
Methane	ND	1
Carbon Monoxide	ND	2
TGNMO	ND	1

QA/QC

Sample Number: 95-11-526-1 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen	83000	83100	0	0 - 25
Nitrogen	448000	447000	0	0 - 25
Methane	248000	248000	0	0 - 25
Carbon Dioxide	211000	211000	0	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
TGNMO	200	229	0	0 - 25

Reviewed and Approved _____ on 12/07/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Date Sampled: 11/30/95
Date Received: 11/30/95
Date Analyzed: 12/01/95

Work Order No.: 95-11-541
Method: EPA TO-14/1150.1 LIST

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: PPS 26

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	1.6
Acetonitrile	ND	4
1,1-Dichloroethene	ND	1.6
Methylene Chloride	ND	4
1,1-Dichloroethane	ND	1.6
Chloroform	ND	1.6
1,2-Dichloroethane	ND	1.6
1,1,1-Trichloroethane	3.8	1.6
Benzene	1.7	1.6
Carbon Tetrachloride	ND	1.6
Trichloroethene	1.8	1.6
Toluene	5.5	1.6
Tetrachloroethene	ND	1.6
Chlorobenzene	ND	1.6
Total Xylenes	10.3	3.2
Benzyl Chloride	ND	1.6
1,3-Dichlorobenzene	ND	1.6
1,4-Dichlorobenzene	1.7	1.6
1,2-Dichlorobenzene	ND	1.6

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Date Analyzed: 12/01/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-11-541
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: TS1

Analyte	Concentration	Reportable Limit
Vinyl Chloride	1200	400
Acetonitrile	ND	1000
1,1-Dichloroethene	ND	400
Methylene Chloride	1600	1000
1,1-Dichloroethane	ND	400
Chloroform	ND	400
1,2-Dichloroethane	ND	400
1,1,1-Trichloroethane	820	400
Benzene	3400	400
Carbon Tetrachloride	ND	400
Trichloroethene	840	400
Toluene	12900	400
Tetrachloroethene	500	400
Chlorobenzene	1340	400
Total Xylenes	13700	800
Benzyl Chloride	ND	400
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	ND	400
1,2-Dichlorobenzene	ND	400

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Date Sampled: 11/30/95
Date Received: 11/30/95
Date Analyzed: 12/01/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-11-541
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: ISS 5

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	1.6
Acetonitrile	ND	4
1,1-Dichloroethene	ND	1.6
Methylene Chloride	ND	4
1,1-Dichloroethane	ND	1.6
Chloroform	ND	1.6
1,2-Dichloroethane	ND	1.6
1,1,1-Trichloroethane	3.0	1.6
Benzene	2.6	1.6
Carbon Tetrachloride	ND	1.6
Trichloroethene	ND	1.6
Toluene	7.4	1.6
Tetrachloroethene	ND	1.6
Chlorobenzene	ND	1.6
Total Xylenes	8.2	3.2
Benzyl Chloride	ND	1.6
1,3-Dichlorobenzene	ND	1.6
1,4-Dichlorobenzene	1.7	1.6
1,2-Dichlorobenzene	ND	1.6

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Date Sampled: 11/30/95
Date Received: 11/30/95
Date Analyzed: 12/01/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-11-541
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: ISS 88

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	1.6
Acetonitrile	ND	4
1,1-Dichloroethene	ND	1.6
Methylene Chloride	ND	4
1,1-Dichloroethane	ND	1.6
Chloroform	ND	1.6
1,2-Dichloroethane	ND	1.6
1,1,1-Trichloroethane	4.4	1.6
Benzene	3.0	1.6
Carbon Tetrachloride	ND	1.6
Trichloroethene	2.2	1.6
Toluene	7.9	1.6
Tetrachloroethene	1.6	1.6
Chlorobenzene	ND	1.6
Total Xylenes	8.4	3.2
Benzyl Chloride	ND	1.6
1,3-Dichlorobenzene	ND	1.6
1,4-Dichlorobenzene	ND	1.6
1,2-Dichlorobenzene	ND	1.6

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Date Received: 11/30/95
Date Analyzed: 12/01/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-11-541
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	ND	0.5
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	ND	0.2
Toluene	0.3	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	ND	0.4
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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Date Analyzed: 12/01/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-11-541
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

QA/QC

Sample Number: ISS 88

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Vinyl Chloride	ND	ND	NA	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	ND	ND	NA	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 - 30
1,1,1-Trichloroethane	4.40	4.64	5	0 - 30
Benzene	2.76	3.20	8	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	2.24	1.76	24	0 - 30
Toluene	7.92	8.40	6	0 - 30
Tetrachloroethene	1.60	1.68	5	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30
Total Xylenes	8.40	9.12	8	0 - 30
Benzyl Chloride	ND	ND	NA	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	1.44	1.60	10	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved William H. Christensen on 12/07/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	11/30/95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

	SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
PPS 26	[redacted]	11/30/95	11:21 Am	G	1	PPS 26	✓	✓							
TSI	[redacted]	11/30/95	11:43 Am	G	1	TSI	✓	✓						✓	
ISS 5		11/30/95	11:57 Am	C	1	ISS 5	✓	✓		✓					
ISS 38		11/30/95	12:18 Am	C	1	ISS 88	✓	✓		✓					

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	11-30-95	12:30 Am
RECEIVED BY:	[illegible]	CALSCIENCE	11-30-95	12:30 PM
RELINQUISHED BY:	[illegible]	CALSCIENCE	11-30-95	15:35
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	Calscience	11/30/95	1535

001093

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 E. Thousand Oaks Blvd. #303
Westlake Village, CA 91362

Date Sampled: 12/19/95
Date Received: 12/20/95
Date Analyzed: 12/21/95

Work Order No.: 95-12-362
Method: SCAQMD 25.1
Page 1 of 3

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Oxygen	13600	1000
Nitrogen	193000	1000
Methane	411000	1000
Carbon Dioxide	377000	1000
Carbon Monoxide	ND	2
TGNMO	281	1

Sample Number: ISS #61

Methane	10	1
TGNMO	61	1

Sample Number: ISS #62

Methane	ND	1
TGNMO	ND	1

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates 3617 E. Thousand Oaks Blvd. #303 Westlake Village, CA 91362		Date Sampled: Date Received: Date Analyzed:	12/19/95 12/20/95 12/21/95
Attn: Alex Feucht RE: Penrose Landfill/J152-6		Work Order No.: Method: Page 2 of 3	95-12-362 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: PPS #10		
TGNMO	ND	1
Sample Number: Method Blank		
Oxygen	ND	1000
Nitrogen	ND	1000
Carbon Dioxide	ND	1000
Methane	ND	1
Carbon Monoxide	ND	2
TGNMO	ND	1

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 E. Thousand Oaks Blvd. #303
Westlake Village, CA 91362

Date Sampled: 12/19/95
Date Received: 12/20/95
Date Analyzed: 12/21/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-12-362
Method: SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: PPS #10 (Duplicate)				
Oxygen	217000	216000	0	0 - 25
Nitrogen	809000	810000	0	0 - 25
Methane	3	2	40*	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	426	395	8	0 - 25
TGNMO	ND	ND	NA	0 - 25

Reviewed and Approved _____ on 01/03/1996
William H. Christensen
Deliverables Manager

*Out of range

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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3617 E. Thousand Oaks Blvd. #303
Westlake Village, CA 91362

Date Sampled: 12/19/95
Date Received: 12/20/95
Date Analyzed: 12/21/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-12-362
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Vinyl Chloride	1090	640
Acetonitrile	ND	1600
1,1-Dichloroethene	990	640
Methylene Chloride	3230	1600
1,1-Dichloroethane	ND	640
Chloroform	ND	640
1,2-Dichloroethane	ND	640
1,1,1-Trichloroethane	1150	640
Benzene	2500	640
Carbon Tetrachloride	ND	640
Trichloroethene	3420	640
Toluene	16700	640
Tetrachloroethene	2100	640
Chlorobenzene	1280	640
Total Xylenes	14300	2200
Benzyl Chloride	ND	640
1,3-Dichlorobenzene	ND	640
1,4-Dichlorobenzene	ND	640
1,2-Dichlorobenzene	ND	640

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Date Sampled: 12/19/95
Date Received: 12/20/95
Date Analyzed: 12/21/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-12-362
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: ISS #61

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.8
Acetonitrile	ND	2
1,1-Dichloroethene	ND	0.8
Methylene Chloride	2.4	2
1,1-Dichloroethane	ND	0.8
Chloroform	ND	0.8
1,2-Dichloroethane	ND	0.8
1,1,1-Trichloroethane	16.7	0.8
Benzene	3.3	0.8
Carbon Tetrachloride	1.1	0.8
Trichloroethene	4.0	0.8
Toluene	9.4	0.8
Tetrachloroethene	4.8	0.8
Chlorobenzene	ND	0.8
Total Xylenes	9.2	2.8
Benzyl Chloride	ND	0.8
1,3-Dichlorobenzene	ND	0.8
1,4-Dichlorobenzene	ND	0.8
1,2-Dichlorobenzene	ND	0.8

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 E. Thousand Oaks Blvd. #303
Westlake Village, CA 91362

Date Sampled: 12/19/95
Date Received: 12/20/95
Date Analyzed: 12/21/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-12-362
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: ISS #62

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.8
Acetonitrile	ND	2
1,1-Dichloroethene	ND	0.8
Methylene Chloride	3.2	2
1,1-Dichloroethane	ND	0.8
Chloroform	ND	0.8
1,2-Dichloroethane	ND	0.8
1,1,1-Trichloroethane	1.9	0.8
Benzene	2.4	0.8
Carbon Tetrachloride	ND	0.8
Trichloroethene	3.9	0.8
Toluene	6.8	0.8
Tetrachloroethene	2.7	0.8
Chlorobenzene	ND	0.8
Total Xylenes	7.9	2.8
Benzyl Chloride	ND	0.8
1,3-Dichlorobenzene	ND	0.8
1,4-Dichlorobenzene	ND	0.8
1,2-Dichlorobenzene	ND	0.8

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3617 E. Thousand Oaks Blvd. #303
Westlake Village, CA 91362

Date Sampled: 12/19/95
Date Received: 12/20/95
Date Analyzed: 12/21/95

Work Order No.: 95-12-362
Method: EPA TO-14/1150.1 LIST

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

Sample Number: PPS #10

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.8
Acetonitrile	ND	2
1,1-Dichloroethene	ND	0.8
Methylene Chloride	2	2
1,1-Dichloroethane	ND	0.8
Chloroform	ND	0.8
1,2-Dichloroethane	ND	0.8
1,1,1-Trichloroethane	1.6	0.8
Benzene	2.3	0.8
Carbon Tetrachloride	0.8	0.8
Trichloroethene	3.8	0.8
Toluene	5.5	0.8
Tetrachloroethene	2.1	0.8
Chlorobenzene	ND	0.8
Total Xylenes	7.0	2.8
Benzyl Chloride	ND	0.8
1,3-Dichlorobenzene	ND	0.8
1,4-Dichlorobenzene	ND	0.8
1,2-Dichlorobenzene	ND	0.8

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 E. Thousand Oaks Blvd. #303
Westlake Village, CA 91362

Date Sampled: 12/19/95
Date Received: 12/20/95
Date Analyzed: 12/21/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-12-362
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	ND	0.5
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	0.2	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	1.0	0.2
Toluene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	ND	0.7
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 E. Thousand Oaks Blvd. #303
Westlake Village, CA 91362

Date Sampled: 12/19/95
Date Received: 12/20/95
Date Analyzed: 12/21/95

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Work Order No.: 95-12-362
Method: EPA TO-14/1150.1 LIST

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: ISS #62 (Duplicate)				
Vinyl Chloride	ND	ND	NA	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	3.2	3.6	11	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 - 30
1,1,1-Trichloroethane	1.9	1.8	4	0 - 30
Benzene	2.4	2.6	8	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	3.9	3.8	1	0 - 30
Toluene	6.8	7.0	2	0 - 30
Tetrachloroethene	2.7	2.4	14	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30
Total Xylenes	7.9	8.1	2	0 - 30
Benzyl Chloride	ND	ND	NA	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved William H. Christensen on 01/03/1996
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.
NA denotes not applicable.

Each sample was received by CEL intact and with chain-of-custody attached.

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JOB NAME

PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE

FILE (JOB#): J152-6

DATE: 12-19-95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC			CH_4			Fixed Gas	REMARKS
TSI	12-19-95	7:38 Am	G	1	TSI	✓	✓						✓	
ISS 61	12-19-95	8:07 Am	C	1	ISS #61	✓	✓			✓				
ISS 62	12-19-95	8:28 Am	C	1	ISS #62	✓	✓			✓				
.	12-19-95	9:11 Am		1	PPS #10	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	12-19-95	9:37 Am
RECEIVED BY:	[illegible]	L.A. BY-PRODUCTS	12-19-95	9:31 AM
RELINQUISHED BY:	[illegible]	L.A. BY-PRODUCTS	12-20-95	10:04 A.M.
RECEIVED BY:	[illegible]	CALSCIENCE	12-20-95	10:04 AM
RELINQUISHED BY:	[illegible]	CALSCIENCE	12-20-95	1330
RECEIVED BY:	[illegible]	Calscience	12/20/95	1330

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EXHIBIT E

Boring Logs and Probe Details

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SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 FAX: (818) 707-3012

JOB NAME PENROSE LF PERIMETER PROBE REPLACEMENT

JOB No. J152-3
DATE 11/24/95

BORING LOG by GTF

NAME Probe A-1

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SAND w/ Gvl & Cbls c gr-f gr, lt brn, SD, as abv. Well graded sand			2 inch Asphalt	
BOULDER			BACKFILL	10'
SAND as above, w/ pbls				
GVL layer				
SAND as above w/ cobbles & boulders			19.5' BENTONITE CHIPS	20'
BOULDERS W/SAND			21' #2/12 SAND	
			TD 23'	
			REFUSAL TD 23'	
				30'
			Probe constructed of ½" PVC, with bottom 1 foot perforated.	
				40'

NAME Probe K-1

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SAND w/ GVL & Cbls; vf-c gr; p srtd; brn; some cobbles & boulders			GCL @ 0.6'	
			BACKFILL	10'
SAND as above				
			BENTONITE	
Boulders			#2/12 SAND	
			TD 18 ft. Refusal & TD @ 17.5 ft.	20'
				30'

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SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 FAX: (818) 707-3012

JOB NAME PENROSE-LF PERIMETER PROBE REPLACEMENT

JOB No. J152-3
DATE 11/24/95

BORING LOG by CAF

NAME PROBE J-1

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SILT, sdy clyy, dry, powdery, brn			GCL@ 0.5'	
			BACKFILL	10'
SAND, slty mod srtd				
SAND, w/ Gvl, p srtd, vf-Cgr;				
SAND; as above w/ pbls, cbls, boulders,			BENTONITE CHIPS	20'
Boulders			#2 1/2 SAND	
			TD 24.5	
			Refusal & TD@24.5ft.	
				30'
			Probe constructed of 1/2" PVC, with bottom 1 foot perforated.	

NAME

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH

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Sepich Associates Inc.

METHANE SPECIALISTS

3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362

TEL (818) 707-3036
(805) 373-9321

FAX (818) 707-3012
(805) 373-8987

October 23, 1995

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Third Quarter, 1995
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the eighth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period July - September, 1995.

During this monitoring period the landfill was covered with geosynthetic clay liner (GCL) and a final soil layer as a phase of the landfill closure process. The GCL placement required temporary disconnection of landfill gas wells and destruction of some of the perimeter probes. Many of the destroyed probes have been replaced. During GCL installation, perimeter probes were monitored on a regular basis adjacent to areas of disconnected gas wells to determine off-site migration. This report does not include the results of the perimeter probe monitoring that was done in conjunction with the GCL installation. That information will be included in a final GCL installation report which will be delivered to you.

Monitoring and sampling for this report was performed on July 14, 27, and 28, August 1, 10, 11, 29, and 31, and September 14, 15, 28 and 29, 1995.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements. Rule 1150.1 also requires simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B, Table I for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes a maps showing sampling grids (Integrated Surface Sampling Map). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection a of 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this quarter, July through September 1995, field monitoring was conducted on July 14, 27, and 28, August 1, 10, 11, 29 and 31, and September 14, 15, 28, and 29. Perimeter probe (PPS), integrated surface(ISS), and power plant inlet (TSI) samples were collected for laboratory analysis on July 27, August 1, August 29, and September 28, 1995.

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on July 14, July 28, August 10, August 31, September 15, and September 29, 1995 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Perimeter probes were sampled by Los Angeles By-Products personnel.

Tedlar bag samples (designated PPS for perimeter probe sample on field and lab forms) were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber.

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Garden Grove, California, within 24 hours of sampling.

Perimeter probe sampling was conducted at Probe P on July 27 and August 1, at Probe V on August 29, and at Probe #8 in September 1995. Laboratory instrumentation failure prevented analyses of the July 27, 1995 samples within the prescribed holding time. Samples were collected from the same sampling stations on August 1, 1995. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and laboratory analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on July 27, August 1, August 29, and September 28, 1995, by focusing sampling efforts in zones where previously conducted instantaneous surface monitoring had found the high TOC concentrations. During instantaneous surface monitoring, no areas had high TOC readings (greater than 500 ppmv) in July, August, or September. Traverse grids for ISS sampling were selected to sample previously "hot" areas or to fill in areas that had not previously been sampled. In July (samples collected August 1, 1995) Areas 23 and 24 were sampled (see Integrated Surface Sampling Map in Exhibit A -- note that this quarter's ISS map includes many grids traversed for this Rule 1150.1 compliance program), in August Areas 21 and 22 were sampled, and in September Areas 38 and 39 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. The samples were checked for TOC with an OVA and for H_2S with a Dreager tube and the results were recorded on a Gas Concentration form. The ISS field monitoring results for the Third Quarter TOC and H_2S concentrations were all non-detect.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring was conducted on July 14, August 11, and September 14, 1995. In July, August, and September no high TOC readings (greater than 500 ppmv) registered on the OVA.

Instantaneous surface monitoring Path A was traversed on August 11 and Path B was traversed on July 14, and September 14, 1995. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling

10-liter bag samples (designated TSI for treatment system inlet sample on field and lab forms) were collected from the Pacific Energy (PE) electrical generation plant inlet pipeline on July 27, August 1, August 29, and September 28, 1995. TOC was monitored with a recently calibrated GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for hydrogen sulfide with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were collected on May 9, 1995 and results were reported in the second quarter report.

B.6 Reporting Requirements

This is the eighth in a series of quarterly reports and the third quarterly report for Penrose Landfill for 1995. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring had been performed bi-monthly by Positive Lab Service. After April 1994, their early (to mid-) month data was used to select the monthly probe sampling stations and their (mid to) late-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

July 14, 1995 perimeter probe monitoring results were all non-detect (ND). Probe P, at 80-feet, was sampled on July 27 and August 1, 1995. Laboratory instrumentation failure prevented analyses of the July 27, 1995 samples within the prescribed holding time. Samples were collected from the same sampling stations on August 1, 1995. The laboratory report did not include results for methane analysis.

Table I - July 1995
SUMMARY OF FIELD TOC RESULTS
FOR PERIMETER PROBE SAMPLED ON
August 1, 1995

Probe Number	Screen Depth (feet)	Field Value 7/14/95 (% Vol)	Field Value 7/27/95 (% Vol)	Field Value 8/1/95 (% Vol)	Follow-up Field Value 8/10/95 (% Vol)
P	80	ND	ND	NA	ND

Note: Laboratory samples were collected 8/1/95. Field values are volume percent TOC.

NA Results not available.

ND None detected.

August 10, 1995 perimeter probe monitoring results were all non-detect. Probe V, 40-feet, was sampled on August 29, 1995. Analytical results from the August 29, 1995 sample recorded less than 1% methane by volume.

Table II - August 1995
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
ON AUGUST 29, 1995

Probe Number	Screen Depth (feet)	Field Value 8/10/95 (% Vol)	Field Value 8/29/95 (% Vol)	Lab Result 8/29/95 (% Vol)	Follow-up Field Value 8/31/95 (% Vol)
V	40	ND	ND	0.00583	ND

Note: Laboratory samples were collected 8/29/95. Laboratory results are volume percent of methane. Field values are volume percent TOC.

The September 15, 1995 perimeter probe monitoring results were all non-detect. During the Probe #8 was sampled on September 28, 1995. Analytical results from the September 28, 1995 sample was less than 1% methane by volume.

Table III - September 1995
SUMMARY OF FIELD TOC AND METHANE CONCENTRATION
FOR PERIMETER PROBE SAMPLED ON
ON SEPTEMBER 28, 1995

Probe Number	Screen Depth (feet)	Field Value 9/15/95 (% Vol)	Field Value 9/28/95 (% Vol)	Lab Result 9/28/95 (% Vol)	Follow-up Field Value 9/29/95 (% Vol)
8	5	ND	ND	0.00862	ND

Note: Laboratory samples were collected 9/28/95. Laboratory results are volume percent of methane. Field values are volume percent TOC.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for "Core Group" VOC by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FIRST QUARTER 1995
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
8/1/95 AREA # 23	NA	<5
8/1/95 AREA # 24	NA	5.9
8/29/95 AREA # 21	5.98	<1
8/29/95 AREA # 22	6.61	<1
9/28/95 AREA # 38	<1.0	<1.0
9/28/95 AREA # 39	<1.0	<1.0

Note: Laboratory samples were designated ISS # (number corresponds to area on Integrated Surface Sampling Map in Exhibit A).

< Less than the detection limit given.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, no OVA readings were greater than 500 ppmv during the Third Quarter of 1995.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 38% methane on August 1, 43.8% methane on August 29, and 44.2% methane on September 28, 1995. Analytical results for fixed gases, NMHC, and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

PE conducted source test sampling on May 9, 1995. At that time LA By-Products Company sampled from an inlet containing Penrose gas only. PE's source test samples are from the mixture of landfill gas from Penrose, Sheldon, and Bradley landfills, that is being burned at the plant. The analytical results from the samples collected on May 9, 1995 were included in Second Quarter report.

C.6 Report Requirements

This report constitutes the 1995, Third Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the current monitoring and laboratory results, mitigation measures are being implement as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

High methane readings in the probes prompted Los Angeles By-Products Company and Pacific Energy to institute a mitigation well program in the Spring of 1994. Adjusting flow rates at the wells to manipulate methane at the probes is an on-going process that has been successful in reducing methane concentrations at the probes.

During this monitoring period the landfill was covered with geosynthetic clay liner (GCL) and a final soil layer as a phase of the landfill closure process. The constraints of GCL placement dictated anticipated cut and fill for subsurface preparation for the GCL. The GCL placement was performed in compliance with Rule 1150 Excavation Permit (Application No. 303293) requirements . The GCL placement required temporary disconnection of landfill gas wells. During GCL installation, perimeter probes were monitored on a regular basis adjacent to areas of disconnected gas wells to determine off-site migration. This report does not include data regarding Rule 1150 compliance or the perimeter probe monitoring that was done in conjunction with the GCL installation. That information will be included in a final GCL installation report which will be delivered to you.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
JUN. 30 1996
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.608/atf

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Ms. Tania Weaver

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location Map, Integrated Surface Sampling Map and Traverse Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Third Quarter, 1995
- EXHIBIT D: Laboratory Analytical Results - Third Quarter, 1995

EXHIBIT A

Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

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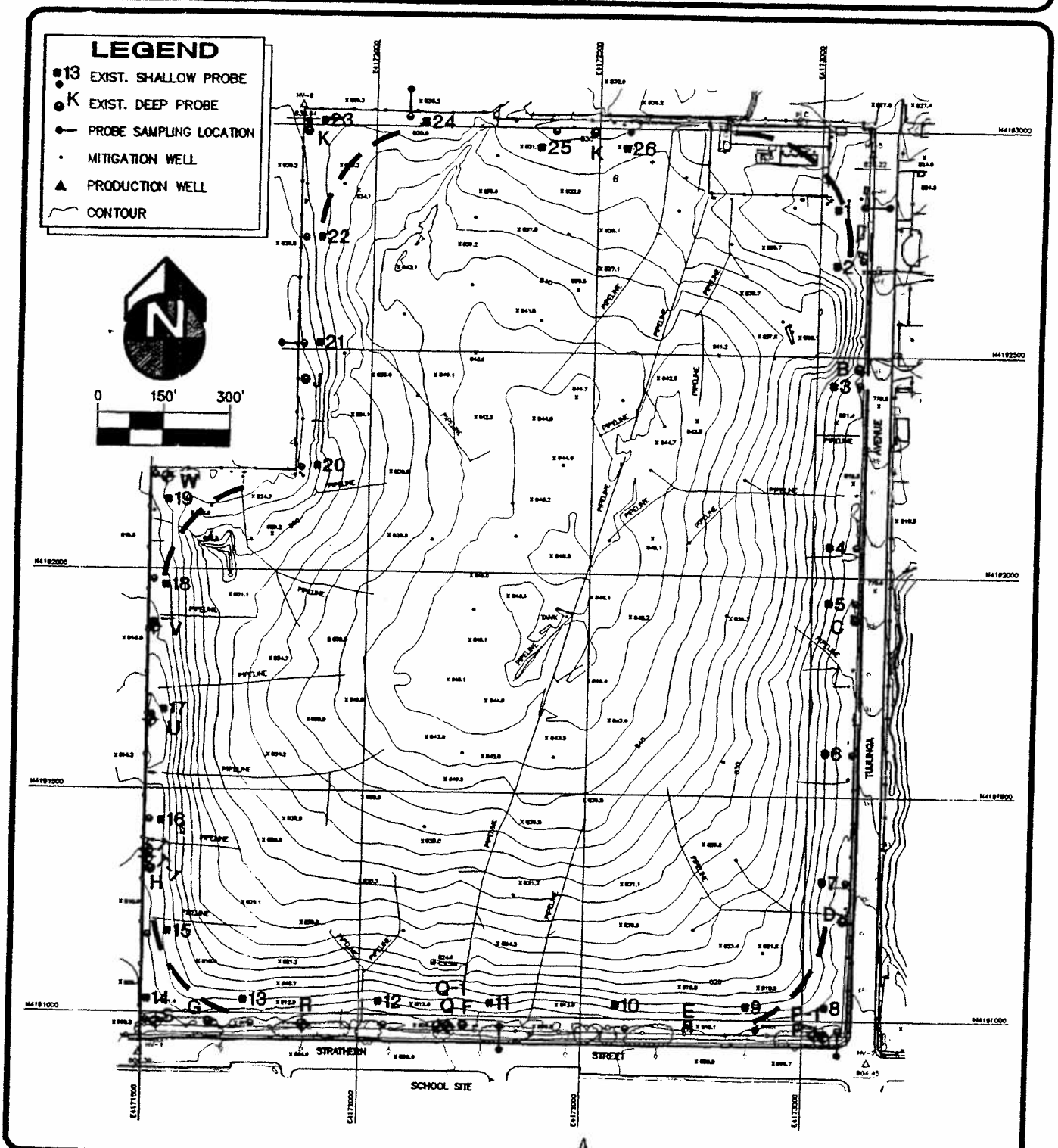
PENROSE LANDFILL
WELL AND PROBE LOCATIONS



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12/1/94 J152-WPL

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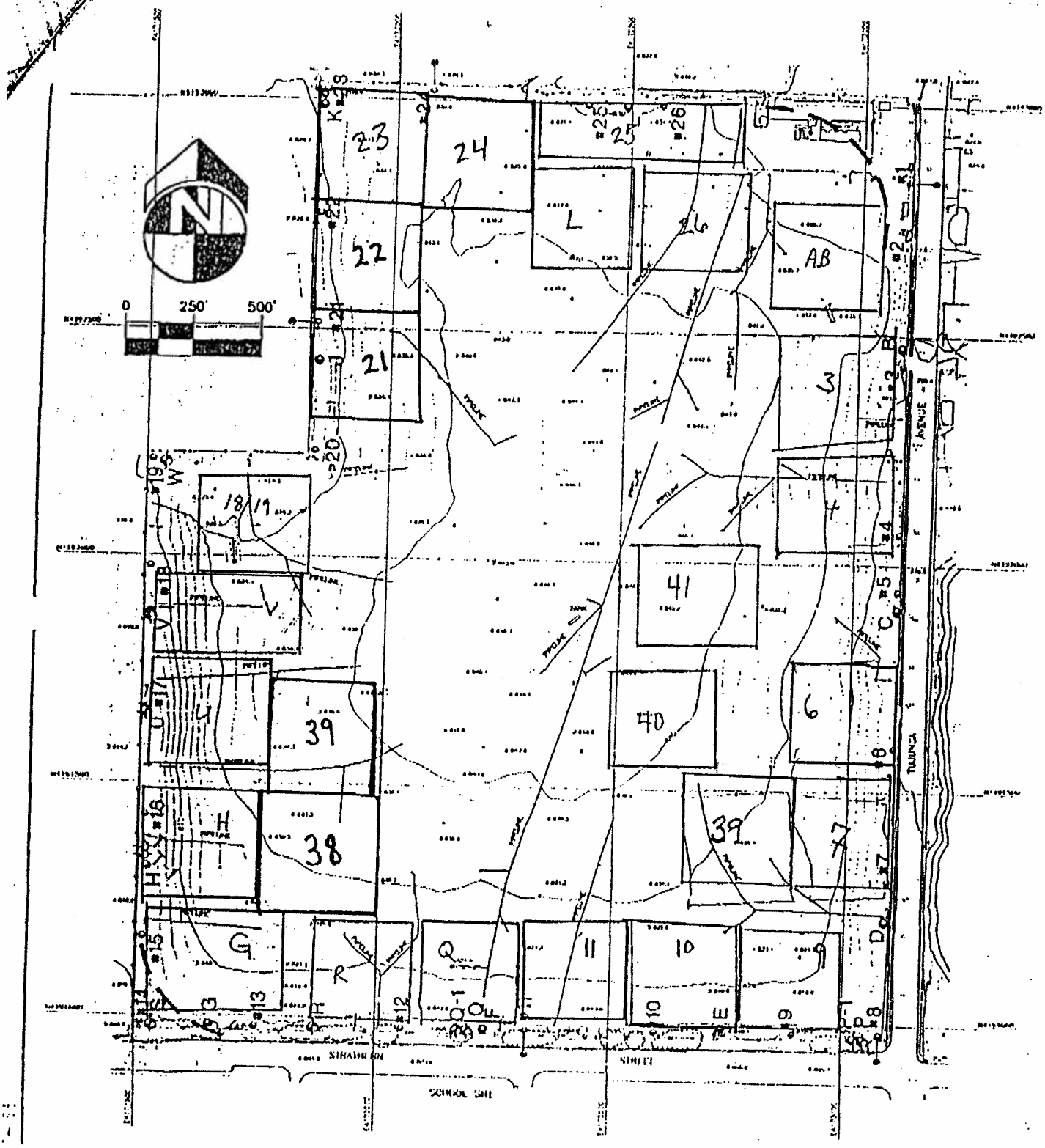

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CIVIL ENGINEERS
SANITARY
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WATER AND
GAS ENGINEERS
SURVEYORS

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING

SAMPLING DATE _____ SAMPLER _____ SHEET ___ OF ___

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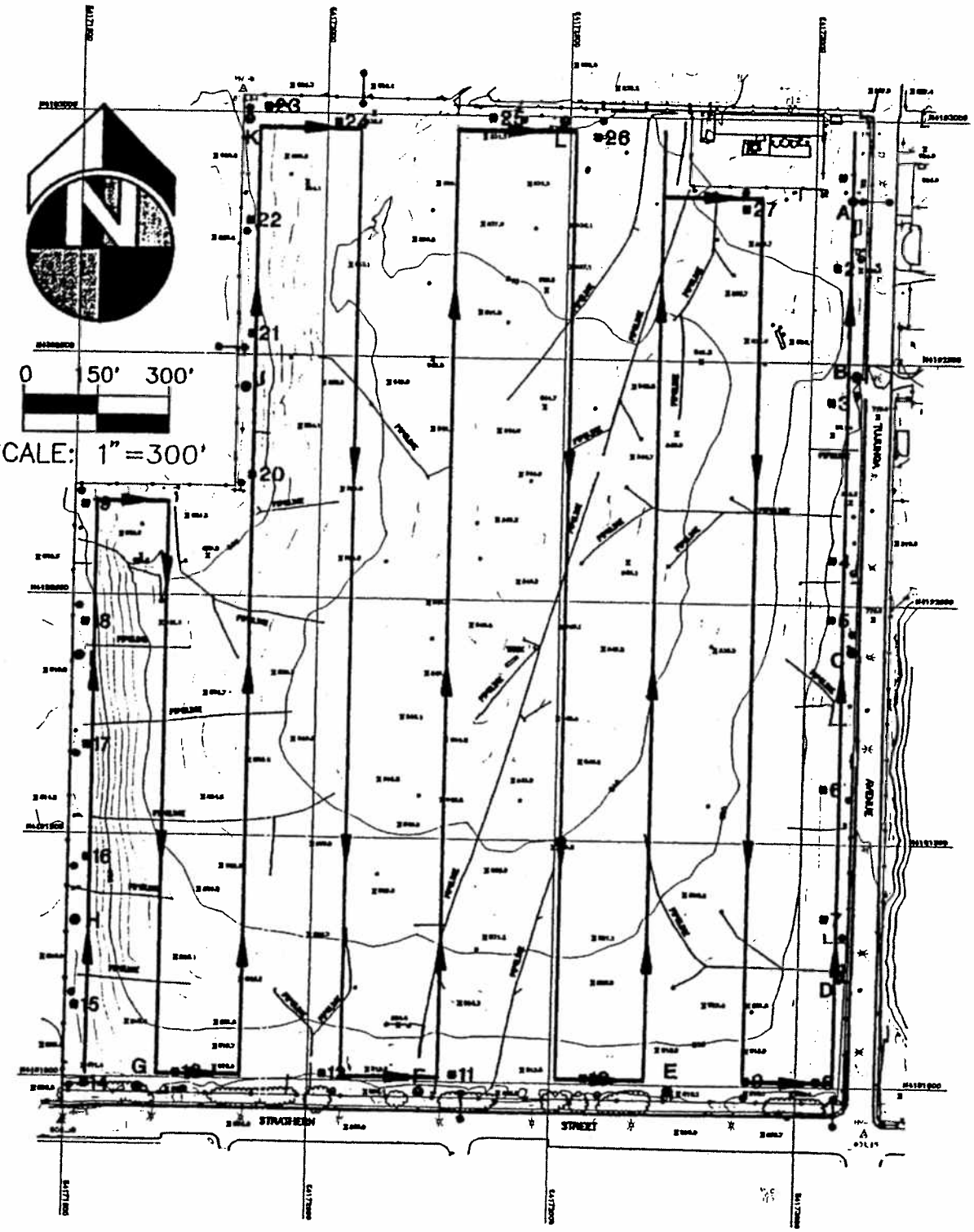
INSTANTANLOUS SURFACL MONITORING



PATH A

Drawing prepared by:

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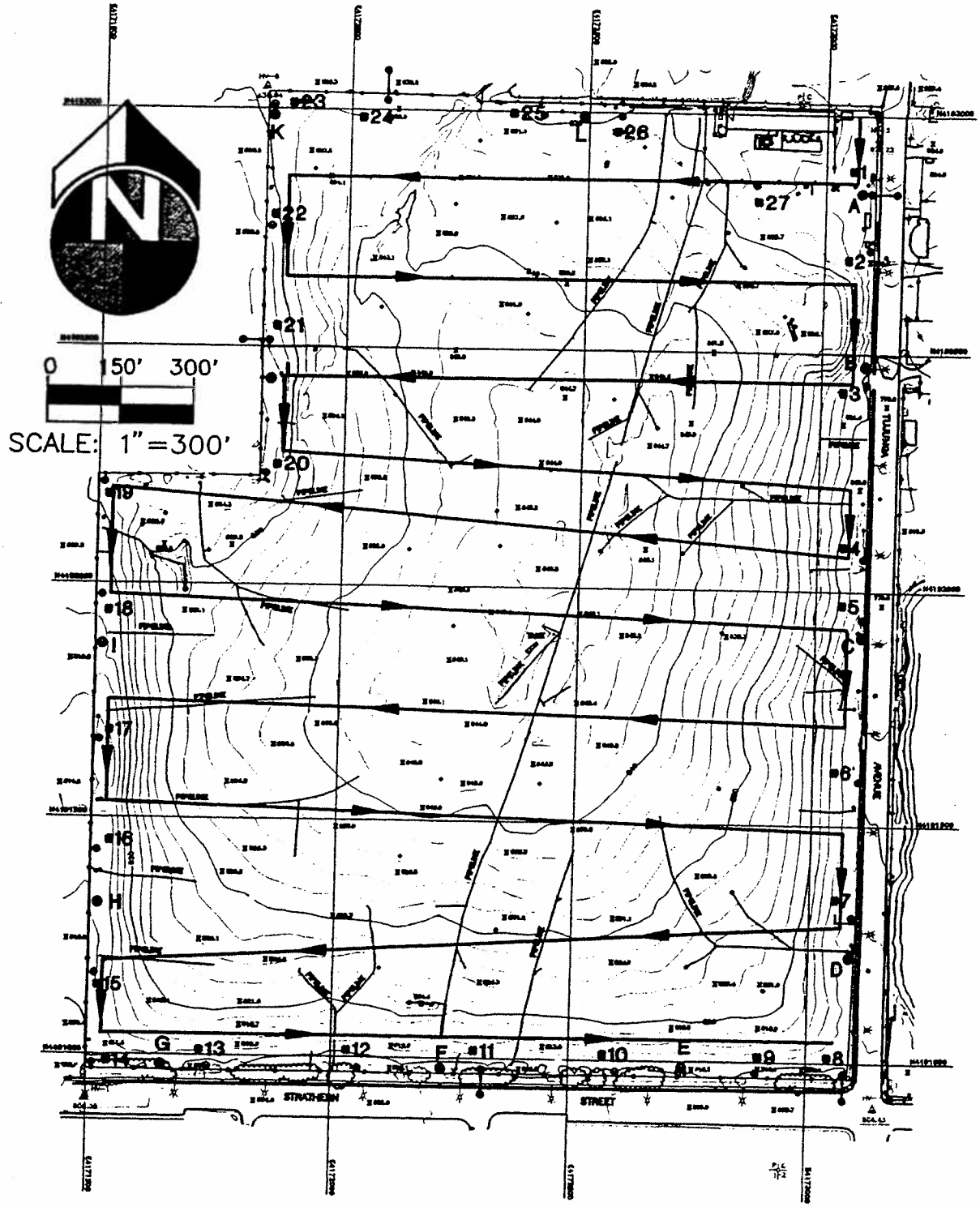
INSTANTANEOUS SURFACE MONITORING



PATH B

Drawing prepared by:

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EXHIBIT B

Core Group Toxic Air Contaminants

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TABLE I: TOXIC AIR CONTAMINANTS -- CORE GROUP

1. Acetonitrile CH_3CN
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1 Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2 Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1 Dichloroethene (Vinylidene Chloride) $CH_2:CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C:CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1 Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichloroethylene $CHCl:CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2:CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Third Quarter, 1995

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WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 7/14/95

INSPECTION REPORT

CLIMATE: bright, (clear), fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, (breeze), wind | (dry), moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: Today was HOT! Clear skies and a slight breeze from South west at .8 - 2.3 mph (calculated by an electronic wind speed indicator). Contractor followed PATH 'B'. OVA instrument used was FOXBORO 128 last calibrated on 7/14/95 at 7:00 Am by Robert McAllister.

Surface monitor began at 8:47 Am and concluded at 10:37 Am. Contractor discovered No readings of 500 ppm or greater.

☐ REINSPECTION REQUIRED

Robert mcallister
INSPECTOR

PRINCIPAL

JS40075 4/15/94

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

July 19, 1995

FILE NO: 6022

LAB NO: 5200072200

SAMPLE: On 07/14/95 at 15:15, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	NA	13	ND	25	ND	N	(3)*
2	NA	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	NA	18	ND	E	ND	R	(7)*
7	NA	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

July 19, 1995

FILE NO: 6022

LAB NO: 5200072200

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 7/27/95

INSPECTION REPORT

CLIMATE: bright, clear, fog | cloudy, overcast, rain | <32° F, 33°-55°, 56°-70° | 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Extremely Hot weather with Bright Sunshine, Clear Skies and No wind (detected by an electronic Wind Speed indicator). Last precipitation recorded was over 2 weeks ago.

The TOC instrument used in testing TSI and PPS was a Natural Gas Indicator model npl-28 last calibrated at 9:10 am on 3-20-95, by Tony Robinson at P.E. The OVA instrument used in testing ISS was the FOXBORO 128 last calibrated on 7/27/95 at 7:15 AM by Robert McAllister. H_2S tests were done with

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

IS40075 4/15/94

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB: J152-6
DATE: 7 27 95

REMARKS CONTINUED: Drager tubes and a drager pump. All air samples were drawn into 10-liter Tedlar bags and placed in a Black Trash bag for protection from Sunlight. The integrated Surface Sampler used by contractor is a portable self-contained unit with its own internal power source, which collected samples at 400 cc/min.

ISS 24, collected at 9:37 am, resulted with 4 ppm in OVA and ND in H_2S. ISS 23, collected at 10:19 Am, resulted in 1.5 ppm OVA and ND in H_2S. PPS P 80', collected at 10:48 Am, resulted with ND in H_2S and ND in OVA. TSI, collected at 11:06 Am, resulted with 70 ppm in H_2S and 30% TOC.

Robert McAllister
INSPECTOR

PRINCIPAL

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 07/27/95

Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

REMARKS: Extremely HOT, BRIGHT DAY
ISS 24 9:37 AM Integrated surface samples
ISS 23 10:19 AM
PPS P 80' 10:48 AM perimeter probe sample
TSI 11:06 AM treatment system inlet

PROBE #		H_2S	TOC
TSI		70ppm	30%
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'	ND	ND
P-1	120'		

PROBE #		DVA	H_2S
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
ISS	23	1.5ppm	ND
ISS	24	4 ppm	ND

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8985

For

002036

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(468)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	07/27/95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT M. McAllister — JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH4				Fixed Gas	REMARKS
J152-6	07/27 95	9:37 AM	C	1	ISS 24	✓	✓		✓					
J152-6	07/27 95	10:19 AM	C	1	ISS 23	✓	✓		✓					
J152-6	07/27 95	10:49 AM	G	1	PPS P 80'	✓	✓							
J152-6	07/27 95	11:06 AM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	07/27/95	11:38 AM
RECEIVED BY:	[illegible]	L.A. BY PRODUCTS	7-27-95	11:38 AM
RELINQUISHED BY:	[illegible]	L.A. BY PRODUCTS	7-27-95	12:40 PM
RECEIVED BY:	[illegible]	CEL	7-27-95	12:40 PM
RELINQUISHED BY:	[illegible]	CEL	7-27-95	13:50
RECEIVED BY:	[illegible]	CEL	7/27/95	1350

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

August 9, 1995

FILE NO: 70237

LAB NO: 5221074200

SAMPLE: On 07/28/95 at 15:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	NA	13	ND	25	ND	N	(3)*
2	NA	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	NA	17	ND	D	ND	Q1	(6)*
6	NA	18	ND	E	ND	R	(7)*
7	NA	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

August 9, 1995

FILE NO: 70237

LAB NO: 5221072400

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By-Products, Attn. Robert McAllister

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ACCREDITED

July 31, 1995
S23595

Mr. Robert McAllister
L.A. ByProducts
1810 East 25th Street
Los Angeles, CA 90058

Subject: Penrose Landfill Gas
July 27, 1995 Sampling

Dear Mr. McAllister:

Calscience Environmental Laboratories, Inc. (Calscience) received four air samples in Tedlar bags on July 27, 1995, which were collected at the Penrose Landfill, according to the Chain-of-Custody received with the samples. Due to problems encountered with our instrumentation following receipt of the samples, Calscience was unable to analyze the samples within the prescribed three day holding time.

We sincerely apologize for any problems this may create. We will make our courier available for sample pick-up following re-sampling. Please contact the undersigned if there are any questions at (714) 895-5494.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Robert J. Stearns
Director

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE: 8/1/95

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, ~~overcast~~, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, ~~86°-100°~~, >100° F | still, ~~breeze~~, wind | dry, ~~moderate~~, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): Robert Mc Allister

REMARKS: The weather was Hazy with Clouds and a South wind at 2.6 - 4.3 mph. (calculated with an electronic wind speed indicator) Last precipitation recorded over 2 weeks ago.

OVA instrument used in testing of ISS samples was the FoxBoRo 128 last calibrated on 7/27/95 at 7:15 Am. by Robert McAllister. The TOC instrument used was a Natural Gas Indicator model NpL-28 last calibrated at 9:10 am on 3-20-95 by Tony Robinson at P.E.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

JSA0075 4/15/94

SHEET__OF__

002035

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 8/1/95

REMARKS CONTINUED: H_2S tests were done with Drager tubes and drager pump. All air samples were drawn into 10-liter Tedlar bags and placed in a Black Trash Bag for protection from Sunlight. The integrated Surface Sampler used by contractor is a portable self-contained unit with its own internal power source, which collected samples at 400 cc/min.

ISS 23, collected at 9:16 Am, received ND in OVA and ND in H_2S. ISS 24, collected at 9:43 Am, received ND in OVA and ND in H_2S. PPS P80', collected at 10:59 Am, received ND in H_2S and TOC. TSI, collected at 11:48 AM, received 20 ppm H_2S and 37% TOC.

Robert mc allister
INSPECTOR

PRINCIPAL

SHEET__OF__

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 08/01/95
Job # 5152-6

GAS CONCENTRATIONS

INITIALS	RM.	
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

REMARKS:
ISS 23 9:16 AM integrated surface samples Hot with wind from South.
ISS 24 9:43 AM
TSI 11:48 AM treatment system inlet 2.6 - 4.3 mph.
PPS P 80' 10:59 AM permeator probe sample Hazy Clouds

PROBE #		H_2S	TOC
TSI		20ppm	37%
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'	ND	ND
P-1	120'		

PROBE #		OVA	H_2S
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
ISS	23	ND	ND
ISS	24	ND	ND

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

For [illegible]ed by:

CONFIDENTIAL

(021)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	08/01/95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
J152-6	08/01/95	9:16 Am	C	1	ISS 23	X	X	X						
J152-6	08/01/95	10:59 AM	G	1	PPS P 80'	X	X							
J152-6	08/01/95	9:43 Am	C	1	ISS 24	X	X	X						
J152-6	08/01/95	11:48 Am	G	1	TSI	X	X						X	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	08/01/95	12:00 noon
RECEIVED BY:	M [illegible]	L.A. BY-PRODUCTS	8-1-95	12:00 PM
RELINQUISHED BY:	M [illegible]	L.A. BY-PRODUCTS	8-1-95	12:12 PM
RECEIVED BY:	[illegible]	CALSCIENCE	8-1-95	12:12 PM
RELINQUISHED BY:	[illegible]	CALSCIENCE	8-1-95	13:15
RECEIVED BY:	[illegible]	CEL	8/1/95	13:15

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

August 31, 1995

FILE NO: 6022

LAB NO: 5242071700

SAMPLE: On 08/10/95 at 14:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

August 31, 1995

FILE NO: 6022

LAB NO: 5242071700

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 8/11/95

INSPECTION REPORT

CLIMATE: (bright) (clear) fog — cloudy overcast rain — <32° F 33°-55° 56°-70° — 71°-85° (86°-100) >100° F — (still) breeze wind — dry (moderate) humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Weather was warm and Bright Sunshine with No Detectable wind. Contractor used an electronic wind meter. The OVA instrument used was the FOXBORO 128 last calibrated on 8/11/95 at 7:13 am by Robert McAllister.

Surface monitor began at 8:11 am and concluded at 11:04 Am. Contractor discovered No Reads above the 500 ppm. Contractor noted Construction work on the Sight, a Cover layer of Dirt/Clay and Claymax being layed on the compacted ground. Contractor followed PATH 'A'.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

ISA0075 4/15/94

SHEET__OF__

002041

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 8/29/95

INSPECTION REPORT

CLIMATE: bright, (clear), fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, (>100° F) | still, breeze, wind | (dry), moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, TSI, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was hot with clear skies and a South wind at 1.3 - 3.7 mph. The last recorded precipitation was over two weeks ago.

The OVA instrument used in testing of ISS samples was the FoxBoRo 128 last calibrated on 8/29/95 at 7:07 AM. The TOC instrument used in testing of TSI and PPS was a Natural Gas Indicator model npl-28 last calibrated at 9:10 am 3-20-95 by Tony Robinson at P.E. H_2S tests were done with Dräger tubes and

☐ REINSPECTION REQUIRED

Robert mcallister
INSPECTOR

PRINCIPAL

JS20075 4/15/94

SHEET__OF__

002042

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6
DATE 8/29/95

REMARKS CONTINUED: drager pump. All air samples were collected into 10-liter Tedlar bags and placed in a Black Trash bag to protect from Sunlight. The integrated Surface Sampler used is a portable self-contained unit with its own internal power source, which collected samples at 400 cc/min.

ISS 21 was collected at 9:46 AM with results of ND in H_2S and ND in OVA. ISS 22 was collected at 10:04 AM with results of ND in OVA and H_2S. PPS V 40' was collected at 10:49 AM with ND in H_2S and ND in TOC. TSI was collect at 11:53 AM with 46% TOC and 110 ppm. H_2S.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

002042

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 8-29-95

Job # J152-6

GAS CONCENTRATIONS

INITIALS	Robert	McAllister
TIME		
INSTRUMENT		
PARAMETER		

REMARKS:
TSI 11:53 Am treatment system HOT Clear
ISS 21 9:46 Am inlet integrated surface BRIGHT...
ISS 22 10:04 Am samples
PPS W 40' 10:49 Am perimeter probe sample Sunny wind.

PROBE #	OVA	H_2S
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
ISS 21	ND	ND
ISS 22	ND	ND

PROBE #			
	B		
C	GREEN-21'		
C	YELLOW-41'		
C	ORANGE-61'		
C	RED-81'		
	D		
	E		
	F		
	G		
	H		
I	GREEN-17'		
I	YELLOW-37'		
I	ORANGE-57'		
I	RED-77'		
	J		
	K		
L	GREEN-45'		
L	YELLOW-65'		
L	ORANGE-85'		
L	RED-105'		
	M		
N	GREEN-22'		
N	YELLOW-45'		
N	ORANGE-68'		
N	RED-90'		
P	10'		
P	40'		
P	80'		
P-1	120'		

PROBE #		TOC	H_2S
Q	10'		
Q	40'		
Q	75'		
Q-1	120'		
Q-1	158'		
R	10'		
R	40'		
R	80'		
R	120'		
S	10'		
S	40'		
S	80'		
S	120'		
T	10'		
T	40'		
T	73'		
T-1	72'		
U	10'		
U	37'		
U	68'		
V	10'		
V	40'	ND	ND
V	73'		
W	10'		
W	40'		
W	80'		
W	120'		
W	158'		
	TSI	46%	110ppm

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8926

For Prepared by:

CONFIDENTIAL

(931)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	8-29-95

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

Robert McAllister — JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
		9:46 AM	C		ISS 21	✓	✓	✓						
		10:04 AM	C		ISS 22	✓	✓	✓						
		10:49 AM	G		PPS V 40'	✓	✓							
		11:53 AM	G		TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	8-29-95	12:12pm
RECEIVED BY:	[illegible]	CALSCIENCE	8-29-95	12:12pm
RELINQUISHED BY:	[illegible]	CALSCIENCE	8-29-95	13:30
RECEIVED BY:				
RELINQUISHED BY:	[illegible]			

CONFIDENTIAL

Penrose Methane Monitoring

Date 08/31/95 Time 16:00 Tech. H2

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol.	
1		ND		S 80'		ND	
2		ND		S 120'		ND	
3		ND		14		ND	
4		ND		15		ND	
5		ND		H		ND	
6		ND		T 10'		ND	
7		ND		T 40'		ND	
8		ND		T 80'		ND	
P 10'		ND		T1 72'		ND	
P 40'		ND		16		ND	
P 80'		ND		U 10'		ND	
P1 120'		ND		U 37'		ND	
9		ND		U 68'		ND	
10		ND		17		ND	
11		ND		V 10'		ND	
Q 10'		1		V 40'		ND	
Q 40'		ND		V 80'		ND	
Q 80'		ND		I		ND	
Q1 120'		ND		18		ND	
Q1 160'		ND		19		ND	
12		ND		W 10'		ND	
R 10'		ND		W 40'		ND	
R 40'		ND		W 80'		ND	
R 80		ND		W 120'		ND	
R 120'		ND		W 153'		ND	
13		ND		20		ND	
[illegible]		ND		T		ND	

CONFIDENTIAL

Penrose Methane Monitoring

Date 08/31/95 Time 16:00 Tech M2

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol.
22		ND				
23		ND				
K		ND				
24		ND				
25		ND				
26		ND				
B		ND				
C-Red		ND				
C-Yellow		ND				
C-Orange		ND				
C-Green		ND				
D		ND				
E		ND				
F		ND				
G		ND				
N-Red		ND				
N-Yellow		ND				
N-Orange		ND				
N-Green		ND				

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 9/14/95

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | calm, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was humid with a thick cloud layer. Last precipitation recorded was over one month ago. OVA METER USED in monitor was the FOXBORO 128, last Calibrated on 9/14/95 at 7:15 AM by Robert McAllister. Monitor began at 10:20 AM and Ended at 12:10 pm. There were no recorded measures over 500 ppm. A slight breeze came from the South at .8 to 1.4 mph. at the end of monitor. Wind speed determined by an electronic wind speed indicator. Contractor followed path 'B'

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

JSA0075 4/15/94

002048

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

October 3, 1995

FILE NO: 72986

LAB NO: 5275151300

SAMPLE: On 09/15/95 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

October 3, 1995

Page 2

FILE NO: 72986

LAB NO: 5275151300

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 9/28/95

INSPECTION REPORT

CLIMATE: bright / ~~cloudy~~ / ~~fog~~ / overcast / rain | <32° F / 33°-55° / 56°-70° / 71-85° / 86°-100° / >100° F | still / breeze / wind | dry / ~~moderate~~ / humid

LOCATION: PENROSE

PURPOSE: TSI, ISS, PPS

CONTRACTOR(S): ROBERT McAllister

REMARKS: Weather was cool with an overcast layer of clouds. No detectable wind and last precipitation was over three weeks ago.

The OVA instrument used in testing of ISS samples was the FOXBORO 128 last calibrated on 9/28/95 at 7:30 AM. H_2S tests were done with Dräger tubes and a Dräger Pump. The TOC instrument used in testing of TSI and PPS was a Natural Gas Indicator model npl-28 last calibrated at 9:10 am on 3-20-95 by Tony Robinson at Pacific Energy.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-8321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME PENROSE

JOB No. 5152-6
DATE 9/28/95

REMARKS CONTINUED:

All samples were collected in 10-liter Tedlar bags and placed in a Black plastic Bag to protect from Sunlight. The integrated Surface sampler used was a portable self-contained with its own internal power source, which collected samples at 400 cc/min.

The TSI sample was collected at 8:49 am with test results of 47% TOC and 90 ppm H_2S. PPS #8 was tested at 9:32 am with results of ND TOC and ND H_2S. ISS 39 was collected at 10:54 AM with test results of ND TOC and ND H_2S. ISS 38 was collected at 11:28 AM with test results of ND TOC and ND H_2S.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 211-4170

PENROSE LANDFILL

Date 9/28/95
Job # 5152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		

REMARKS: ISS 38 11:28 Am
TSI 8:49 am.
PPS #8 9:32 am
ISS 39 10:54 Am

Cloudy Cool weather
No wind till 10:00
then 2.1 - 4.0 mph South

PROBE #	TOC	H_2S
1		
2		
3		
4		
5		
6		
7		
8	ND	ND
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
ISS 39	ND	ND
ISS 40	ND	ND
	OVA	H_2S

PROBE #			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #		TOC	H_2S
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	47%	90ppm

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8982

Prepared by:

CONFIDENTIAL

454

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	9/28/95

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

Robert McAllister — JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
38	9/28/95	11:28 AM	C	1	ISS 38	✓	✓	✓						
39	9/28/95	10:54 AM	C	1	ISS 39	✓	✓	✓						
TSI	9/28/95	8:49 AM	G	1	TSI	✓	✓						✓	
8	9/28/95	9:32 AM	G	1	PPS #8	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert Allister	LOS ANGELES BY-PRODUCTS	9/28/95	11:30AM
RECEIVED BY:	[illegible]	L.A. BY-PRODUCTS	9-28-95	11:30AM
RELINQUISHED BY:	[illegible]	L.A. BY-PRODUCTS	9-28-95	2:20PM
RECEIVED BY:	[illegible]	CALSCIENCE	9-28-95	2:20 p.m.
RELINQUISHED BY:	[illegible]	CALSCIENCE	9-28-95	1550
RECEIVED BY:	[illegible]	CALSCIENCE	9/28/95	1550

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

October 3, 1995

FILE NO: 70237

LAB NO: 5275151400

SAMPLE: On 09/29/95 at 17:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

October 3, 1995

FILE NO: 70237

LAB NO: 5275151400

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	ND	Red	ND	@ 10'	ND
Yellow	ND	Yellow	ND	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

POSITIVE LAB SERVICE

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By-Products, Attn. Robert McAllister

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EXHIBIT D

Laboratory Analytical Results - Third Quarter, 1995

CONFIDENTIAL

J152-6

Quanterra
Environmental Services

Quanterra Incorporated
18501 East Gale Avenue #130
City of Industry, California 91748

818 965-1006 Telephone
818 965-1003 Fax

August 17, 1995

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
11631 Seaboard Circle
Stanton, CA 90680
ATTN: MR. BOB STEARNS

ANALYSIS NO.: 113620-0001/0004-SA
ANALYSES: Volatile Organics by GCMS - Modified EPA TO14, Modified SCAQMD Method 25.1 - Non-Condensibles (NMOCs), Fixed Gases (ASTM D1946)
DATE SAMPLED: 08/01/95
DATE SAMPLE REC'D: 08/03/95

PROJECT NO.: 95-08-021

Enclosed with this letter is the report on the chemical and physical analyses for the samples from ANALYSIS NO.: 113620-0001/0004-SA as shown above.

The samples were received by Quanterra Environmental Services, City of Industry, intact and with the chain-of-custody record attached.

Please note that ND means not detected at the reporting limits expressed.

EPA Method TO-14 describes the use of SUMMA canisters for sampling and analysis. Use of Tedlar sample bags constitutes a modification to the method and is noted in the analysis description above.

Val Mallari
Laboratory Manager

8/17/95
Date
Approved

002058

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Quanterra Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Calscience Environmental Laboratories, Inc.

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
113620-0001-SA	ISS 23	AIR	01 AUG 95	09:16	03 AUG 95
113620-0002-SA	PPS P 80	AIR	01 AUG 95	10:59	03 AUG 95
113620-0003-SA	ISS 24	AIR	01 AUG 95	09:43	03 AUG 95
113620-0004-SA	TSI	AIR	01 AUG 95	11:48	03 AUG 95

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Quanterra Environmental Services

Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: ISS 23
LAB ID: 113620-0001-SA
Matrix: AIR
Sampled: 01 AUG 95
Received: 03 AUG 95
Authorized: 03 AUG 95
Prepared: N/A
Analyzed: 04 AUG 95
Instrument: GC/MS-B
Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	2.3		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	2.0		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
Toluene	12		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Xylenes (total)	3.7		2.0	ppb (v/v)
Benzyl chloride	ND		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	2.5		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
Acetonitrile	ND		100	ppb (v/v)

ND = Not Detected

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Quanterra Environmental Services

Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: PPS P 80
LAB ID: 113620-0002-SA
Matrix: AIR
Authorized: 03 AUG 95
Instrument: GC/MS-B

Sampled: 01 AUG 95
Prepared: N/A
Dilution: 1.0

Received: 03 AUG 95
Analyzed: 04 AUG 95

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Chloroform	6.5		2.0	ppb (v/v)
1,1,1-Trichloroethane	5.2		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	ND		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
Toluene	15		2.0	ppb (v/v)
Tetrachloroethene	2.5		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Xylenes (total)	31		2.0	ppb (v/v)
Benzyl chloride	ND		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	2.3		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
Acetonitrile	ND		100	ppb (v/v)

ND = Not Detected

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Quanterra Environmental Services

Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: ISS 24
LAB ID: 113620-0003-SA
Matrix: AIR
Authorized: 03 AUG 95
Instrument: GC/MS-A

Sampled: 01 AUG 95
Prepared: N/A
Dilution: 1.0

Received: 03 AUG 95
Analyzed: 04 AUG 95

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	ND		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
Toluene	9.8		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Xylenes (total)	3.1		2.0	ppb (v/v)
Benzyl chloride	ND		2.0	ppb (v/v)
1,3-Dichlorobenzene	2.0		2.0	ppb (v/v)
1,4-Dichlorobenzene	ND		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
Acetonitrile	ND		100	ppb (v/v)

ND = Not Detected

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Quanterra Environmental Services

Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: TSI
LAB ID: 113620-0004-SA
Matrix: AIR
Authorized: 03 AUG 95
Instrument: GC/MS-A

Sampled: 01 AUG 95
Prepared: N/A
Dilution: 100

Received: 03 AUG 95
Analyzed: 04 AUG 95

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	360		200	ppb (v/v)
1,1-Dichloroethene	ND		200	ppb (v/v)
Methylene chloride	ND		200	ppb (v/v)
1,1-Dichloroethane	ND		200	ppb (v/v)
Chloroform	ND		200	ppb (v/v)
1,1,1-Trichloroethane	80000	D	1000	ppb (v/v)
Carbon tetrachloride	ND		200	ppb (v/v)
Benzene	980		200	ppb (v/v)
1,2-Dichloroethane	ND		200	ppb (v/v)
Trichloroethene	ND		200	ppb (v/v)
Toluene	11000		200	ppb (v/v)
Tetrachloroethene	350		200	ppb (v/v)
Chlorobenzene	580		200	ppb (v/v)
Xylenes (total)	10000		200	ppb (v/v)
Benzyl chloride	ND		200	ppb (v/v)
1,3-Dichlorobenzene	ND		200	ppb (v/v)
1,4-Dichlorobenzene	ND		200	ppb (v/v)
1,2-Dichlorobenzene	ND		200	ppb (v/v)
Acetonitrile	ND		10000	ppb (v/v)

D = Compound quantitated at a secondary dilution.
ND = Not Detected

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Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: ISS 23
LAB ID: 113620-0001-SA
Matrix: AIR
Sampled: 01 AUG 95
Received: 03 AUG 95
Authorized: 03 AUG 95
Prepared: N/A
Analyzed: 04 AUG 95
Instrument: GC-1
Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Total Non-Methane Hydrocarbons as Methane	ND		5.0	ppm-c

ND = Not Detected

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Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: PPS P 80
LAB ID: 113620-0002-SA
Matrix: AIR Sampled: 01 AUG 95 Received: 03 AUG 95
Authorized: 03 AUG 95 Prepared: N/A Analyzed: 04 AUG 95
Instrument: GC-1 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Total Non-Methane Hydrocarbons as Methane	6.8		5.0	ppm-c

CONFIDENTIAL

Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: ISS 24
LAB ID: 113620-0003-SA
Matrix: AIR
Authorized: 03 AUG 95
Instrument: GC-1

Sampled: 01 AUG 95
Prepared: N/A
Dilution: 1.0

Received: 03 AUG 95
Analyzed: 04 AUG 95

Parameter	Result	Qualifier	RL	Units
Total Non-Methane Hydrocarbons as Methane	5.9		5.0	ppm-c

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Quanterra Environmental Services

Modified SCAQMD Method 25.1 - Non-Condensable
TCA/FID Analysis

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: TSI
LAB ID: 113620-0004-SA
Matrix: AIR Sampled: 01 AUG 95 Received: 03 AUG 95
Authorized: 03 AUG 95 Prepared: N/A Analyzed: 04 AUG 95
Instrument: GC-1 Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Total Non-Methane Hydrocarbons as Methane	1500		5.0	ppm-c

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Quanterra Environmental Services

Fixed Gases
ASTM-D1946

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: TSI
LAB ID: 113620-0004-SA
Matrix: AIR
Authorized: 03 AUG 95
Instrument: GC-1

Sampled: 01 AUG 95
Prepared: N/A
Dilution: 1.0

Received: 03 AUG 95
Analyzed: 04 AUG 95

Parameter	Result	Qualifier	RL	Units
Carbon dioxide	33		0.10	% (v/v)
Oxygen	5.0		0.10	% (v/v)
Nitrogen	28		1.0	% (v/v)
Methane	38		0.10	% (v/v)

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Quanterra Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Air Toxics

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
113620-0001-SA	AIR	TO-14	04 AUG 95-B1	04 AUG 95-B1	
113620-0001-SA	AIR	SCAQMD-251	04 AUG 95-A1	04 AUG 95-A1	
113620-0002-SA	AIR	TO-14	04 AUG 95-B1	04 AUG 95-B1	
113620-0002-SA	AIR	SCAQMD-251	04 AUG 95-A1	04 AUG 95-A1	
113620-0003-SA	AIR	TO-14	04 AUG 95-A1	04 AUG 95-A1	
113620-0003-SA	AIR	SCAQMD-251	04 AUG 95-A1	04 AUG 95-A1	
113620-0004-SA	AIR	TO-14	04 AUG 95-A1	04 AUG 95-A1	
113620-0004-SA	AIR	SCAQMD-251	04 AUG 95-A1	04 AUG 95-A1	
113620-0004-SA	AIR	ASTM-D1946	04 AUG 95-A1	04 AUG 95-A1	

CONFIDENTIAL
Quanterra
Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Air Toxics
Project: 113620

Category: TO-14 Method TO-14 - Volatile Organics
Matrix: AIR
QC Lot: 04 AUG 95-B1 Date Analyzed: 04 AUG 9
Concentration Units: ppb (v/v)

Analyte	Concentration Spiked	Measured DCS1	Measured DCS2	Measured AVG	Accuracy Average(%) DCS	Accuracy Average(%) Limits	Precision (RPD) DCS	Precision (RPD) Limit
Methylene chloride	48.4	51.1	50.4	50.8	105	86-116	1.4	1(
1,1-Dichloroethene	48.4	52.0	52.3	52.2	108	90-115	0.58	1(
Trichloroethene	36.7	37.3	36.3	36.8	100	85-114	2.7	1(
Toluene	48.4	54.4	55.4	54.9	113	92-114	1.8	1(
1,1,2,2-Tetrachloroethane	55.5	60.1	62.0	61.0	110	76-124	3.1	1(

Category: TO-14 Method TO-14 - Volatile Organics
Matrix: AIR
QC Lot: 04 AUG 95-A1 Date Analyzed: 04 AUG 95
Concentration Units: ppb (v/v)

Analyte	Concentration Spiked	Measured DCS1	Measured DCS2	Measured AVG	Accuracy Average(%) DCS	Accuracy Average(%) Limits	Precision (RPD) DCS	Precision (RPD) Limit
Methylene chloride	48.4	46.6	45.2	45.9	95	86-116	3.1	10
1,1-Dichloroethene	48.4	48.6	45.8	47.2	98	90-115	5.9	10
Trichloroethene	36.7	34.9	33.8	34.4	94	85-114	3.2	10
Toluene	48.4	48.5	47.7	48.1	99	92-114	1.7	10
1,1,2,2-Tetrachloroethane	55.5	51.2	50.5	50.8	92	76-124	1.4	10

Category: SCAQMD-251 Modified SCAQMD 25.1 - Non-Condensable
Matrix: AIR
QC Lot: 04 AUG 95-A1 Date Analyzed: 04 AUG 95
Concentration Units: ppm-c

Analyte	Concentration Spiked	Measured DCS1	Measured DCS2	Measured AVG	Accuracy Average(%) DCS	Accuracy Average(%) Limits	Precision (RPD) DCS	Precision (RPD) Limit
Methane	100	102	102	102	102	80-120	0.0	20
Total Non-Methane Hydrocarbons as Methane	1130	1040	1040	1040	92	80-120	0.58	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Quanterra Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Air Toxics
Project: 113620

Category: ASTM-D1946 Fixed Gases (ASTM-D1946)
Matrix: AIR
QC Lot: 04 AUG 95-A1
Concentration Units: % (v/v)

Date Analyzed: 04 AUG 9

Analyte	Concentration Spiked	Measured DCS1	Measured DCS2	Measured AVG	Accuracy Average(%) DCS	Accuracy Limits	Precisio (RPD) DCS	Limi
Methane	100	102	102	102	102	80-120	0.0	2
Carbon dioxide	10.0	10.6	10.6	10.6	106	80-120	0.0	2

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Quanterra Environmental Services

METHOD BLANK REPORT
Air Toxics
Project: 113620

Test: TO-14-MOD-G Volatile Organics by GCMS - Modified EPA TO-14
Matrix: AIR
QC Run: 04 AUG 95-B1

Date Analyzed: 04 AUG 95

Analyte	Result	Units	Reporting Limit
Vinyl chloride	ND	ppb (v/v)	2.0
1,1-Dichloroethene	ND	ppb (v/v)	2.0
Methylene chloride	ND	ppb (v/v)	2.0
1,1-Dichloroethane	ND	ppb (v/v)	2.0
Chloroform	ND	ppb (v/v)	2.0
1,1,1-Trichloroethane	ND	ppb (v/v)	2.0
Carbon tetrachloride	ND	ppb (v/v)	2.0
Benzene	ND	ppb (v/v)	2.0
1,2-Dichloroethane	ND	ppb (v/v)	2.0
Trichloroethene	ND	ppb (v/v)	2.0
Toluene	ND	ppb (v/v)	2.0
Tetrachloroethene	ND	ppb (v/v)	2.0
Chlorobenzene	ND	ppb (v/v)	2.0
Xylenes (total)	ND	ppb (v/v)	2.0
Benzyl chloride	ND	ppb (v/v)	2.0
1,3-Dichlorobenzene	ND	ppb (v/v)	2.0
1,4-Dichlorobenzene	ND	ppb (v/v)	2.0
1,2-Dichlorobenzene	ND	ppb (v/v)	2.0
Acetonitrile	ND	ppb (v/v)	100

QC Run: 04 AUG 95-A1

Date Analyzed: 04 AUG 95

Analyte	Result	Units	Reporting Limit
Vinyl chloride	ND	ppb (v/v)	2.0
1,1-Dichloroethene	ND	ppb (v/v)	2.0
Methylene chloride	ND	ppb (v/v)	2.0
1,1-Dichloroethane	ND	ppb (v/v)	2.0
Chloroform	ND	ppb (v/v)	2.0
1,1,1-Trichloroethane	ND	ppb (v/v)	2.0
Carbon tetrachloride	ND	ppb (v/v)	2.0
Benzene	ND	ppb (v/v)	2.0
1,2-Dichloroethane	ND	ppb (v/v)	2.0
Trichloroethene	ND	ppb (v/v)	2.0
Toluene	ND	ppb (v/v)	2.0
Tetrachloroethene	ND	ppb (v/v)	2.0
Chlorobenzene	ND	ppb (v/v)	2.0
Xylenes (total)	ND	ppb (v/v)	2.0
Benzyl chloride	ND	ppb (v/v)	2.0
1,3-Dichlorobenzene	ND	ppb (v/v)	2.0
1,4-Dichlorobenzene	ND	ppb (v/v)	2.0
1,2-Dichlorobenzene	ND	ppb (v/v)	2.0
Acetonitrile	ND	ppb (v/v)	100

ND = Not Detected

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METHOD BLANK REPORT
Air Toxics (cont.)
Project: 113620

Test: SCAQMD-25_1-G Method SCAQMD 25.1 Modified - Non-Condensable
Matrix: AIR
QC Run: 04 AUG 95-A1 Date Analyzed: 04 AUG 95

Analyte	Result	Units	Reporting Limit
Total Non-Methane Hydrocarbons as Methane	ND	ppm-c	5.0

Test: ASTM-D1946 ASTM-D1946
Matrix: AIR
QC Run: 04 AUG 95-A1 Date Analyzed: 04 AUG 95

Analyte	Result	Units	Reporting Limit
Carbon dioxide	ND	% (v/v)	0.010
Oxygen	ND	% (v/v)	0.10
Nitrogen	ND	% (v/v)	1.0
Methane	ND	% (v/v)	0.00020

ND = Not Detected

(011)

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	08/01/95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
J152-6	08/01/95	9:16 Am	C	1	ISS 23	X	X	X						
J152-6	08/01/95	10:59 AM	G	1	PPS P 80'	X	X							
J152-6	08/01/95	9:43 Am	C	1	ISS 24	X	X	X						
J152-6	08/01/95	11:48 Am	G	1	TSI	X	X						X	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	08/01/95	12:00 noon
RECEIVED BY:	M [illegible]	L.A. BY-PRODUCTS	8-1-95	12:00 PM
RELINQUISHED BY:	M [illegible]	L.A. BY-PRODUCTS	8-1-95	12:12 PM
RECEIVED BY:	[illegible]	CALSCIENCE	8-1-95	12:12 PM
RELINQUISHED BY:	[illegible]	CALSCIENCE	8-1-95	13:15
RECEIVED BY:	[illegible]	CEL	8/1/95	13:15

002074

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Quanterra
Environmental Services

Quanterra Incorporated
18501 East Gale Avenue #130
City of Industry, California 91748

818 965-1006 Telephone
818 965-1003 Fax

September 12, 1995

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 Lincoln Way
Garden Grove, CA 92641
ATTN: MR. JAY PATEL

ANALYSIS NO.: 114353-0001/0004-SA
ANALYSIS: Volatile Organics by GCMS
- Modified EPA TO14
DATE SAMPLED: 08/29/95
DATE SAMPLES REC'D: 08/31/95

PROJECT NO.: 95-08-431

Enclosed with this letter is the report on the chemical and physical analyses for the samples from ANALYSIS NO.: 114353-0001/0004-SA as shown above.

The samples were received by Quanterra Environmental Services, City of Industry, intact and with the chain-of-custody record attached.

Please note that ND means not detected at the reporting limits expressed.

EPA Method TO-14 describes the use of SUMMA canisters for sampling and analysis. Use of Tedlar sample bags constitutes a modification to the method and is noted in the analysis description above.

The preliminary results were faxed to Mr. Bob Stearns on September 11, 1995.

Val Mallari
Laboratory Manager

9/14/95
Date
Approved

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Quanterra Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Calscience Environmental Laboratories, Inc.

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
114353-0001-SA	ISS 21	AIR	29 AUG 95	09:46	31 AUG 95
114353-0002-SA	ISS 22	AIR	29 AUG 95	10:04	31 AUG 95
114353-0003-SA	PPS V40	AIR	29 AUG 95	10:49	31 AUG 95
114353-0004-SA	TSI	AIR	29 AUG 95	11:53	31 AUG 95

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Quanterra Environmental Services

Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: ISS 21
LAB ID: 114353-0001-SA
Matrix: AIR
Authorized: 31 AUG 95
Instrument: GC/MS-A

Sampled: 29 AUG 95
Prepared: N/A
Dilution: 1.0

Received: 31 AUG 95
Analyzed: 31 AUG 95

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Methylene chloride	2.2		2.0	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	2.5		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	2.6		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
Toluene	11		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Xylenes (total)	4.9		2.0	ppb (v/v)
Benzyl chloride	ND		2.0	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	3.6		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
Acetonitrile	ND		100	ppb (v/v)

ND = Not Detected

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Quanterra Environmental Services

Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: ISS 22
LAB ID: 114353-0002-SA
Matrix: AIR
Authorized: 31 AUG 95
Instrument: GC/MS-A

Sampled: 29 AUG 95
Prepared: N/A
Dilution: 1.0

Received: 31 AUG 95
Analyzed: 31 AUG 95

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethene	ND		2.0	ppb (v/v)
Methylene chloride	ND		2.0	ppb (v/v)
1,1-Dichloroethane	ND		2.0	ppb (v/v)
Chloroform	ND		2.0	ppb (v/v)
1,1,1-Trichloroethane	ND		2.0	ppb (v/v)
Carbon tetrachloride	ND		2.0	ppb (v/v)
Benzene	ND		2.0	ppb (v/v)
1,2-Dichloroethane	ND		2.0	ppb (v/v)
Trichloroethene	ND		2.0	ppb (v/v)
Toluene	10		2.0	ppb (v/v)
Tetrachloroethene	ND		2.0	ppb (v/v)
Chlorobenzene	ND		2.0	ppb (v/v)
Xylenes (total)	9.2		2.0	ppb (v/v)
Benzyl chloride	ND	G	2.7	ppb (v/v)
1,3-Dichlorobenzene	ND		2.0	ppb (v/v)
1,4-Dichlorobenzene	3.8		2.0	ppb (v/v)
1,2-Dichlorobenzene	ND		2.0	ppb (v/v)
Acetonitrile	ND		100	ppb (v/v)

G = Reporting Limit elevated due to sample matrix interference.
ND = Not Detected

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Quanterra Environmental Services

Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: PPS V40
LAB ID: 114353-0003-SA
Matrix: AIR
Authorized: 31 AUG 95
Instrument: GC/MS-A

Sampled: 29 AUG 95
Prepared: N/A
Dilution: 3.3

Received: 31 AUG 95
Analyzed: 31 AUG 95

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	16	1	6.7	ppb (v/v)
1,1-Dichloroethene	ND		6.7	ppb (v/v)
Methylene chloride	ND		6.7	ppb (v/v)
1,1-Dichloroethane	ND		6.7	ppb (v/v)
Chloroform	18		6.7	ppb (v/v)
1,1,1-Trichloroethane	ND		6.7	ppb (v/v)
Carbon tetrachloride	ND		6.7	ppb (v/v)
Benzene	ND		6.7	ppb (v/v)
1,2-Dichloroethane	ND		6.7	ppb (v/v)
Trichloroethene	ND		6.7	ppb (v/v)
Toluene	22		6.7	ppb (v/v)
Tetrachloroethene	ND		6.7	ppb (v/v)
Chlorobenzene	ND		6.7	ppb (v/v)
Xylenes (total)	ND		6.7	ppb (v/v)
Benzyl chloride	ND		6.7	ppb (v/v)
1,3-Dichlorobenzene	ND		6.7	ppb (v/v)
1,4-Dichlorobenzene	14		6.7	ppb (v/v)
1,2-Dichlorobenzene	ND		6.7	ppb (v/v)
Acetonitrile	ND		330	ppb (v/v)

1 = All reporting limits elevated due to high level of non-target analytes.
ND = Not Detected

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Quanterra Environmental Services

Volatile Organics by GCMS - EPA TO14

Client Name: Calscience Environmental Laboratories, Inc.
Client ID: TSI
LAB ID: 114353-0004-SA
Matrix: AIR
Authorized: 31 AUG 95
Instrument: GC/MS-A

Sampled: 29 AUG 95
Prepared: N/A
Dilution: 100

Received: 31 AUG 95
Analyzed: 31 AUG 95

Parameter	Result	Qualifier	RL	Units
Vinyl chloride	340		200	ppb (v/v)
1,1-Dichloroethene	ND		200	ppb (v/v)
Methylene chloride	ND		200	ppb (v/v)
1,1-Dichloroethane	ND		200	ppb (v/v)
Chloroform	ND		200	ppb (v/v)
1,1,1-Trichloroethane	ND		200	ppb (v/v)
Carbon tetrachloride	ND		200	ppb (v/v)
Benzene	1300		200	ppb (v/v)
1,2-Dichloroethane	ND		200	ppb (v/v)
Trichloroethene	200		200	ppb (v/v)
Toluene	17000		200	ppb (v/v)
Tetrachloroethene	260		200	ppb (v/v)
Chlorobenzene	1200		200	ppb (v/v)
Xylenes (total)	20000		200	ppb (v/v)
Benzyl chloride	ND		200	ppb (v/v)
1,3-Dichlorobenzene	ND		200	ppb (v/v)
1,4-Dichlorobenzene	1300		200	ppb (v/v)
1,2-Dichlorobenzene	ND		200	ppb (v/v)
Acetonitrile	ND		10000	ppb (v/v)

ND = Not Detected

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Quanterra Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Air Toxics

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
114353-0001-SA	AIR	TO-14	31 AUG 95-A1	31 AUG 95-A1	
114353-0002-SA	AIR	TO-14	31 AUG 95-A1	31 AUG 95-A1	
114353-0003-SA	AIR	TO-14	31 AUG 95-A1	31 AUG 95-A1	
114353-0004-SA	AIR	TO-14	31 AUG 95-A1	31 AUG 95-A1	

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Quanterra Environmental Services

DUPLICATE CONTROL SAMPLE REPORT
Air Toxics
Project: 114353

Category: TO-14 Method TO-14 - Volatile Organics
Matrix: AIR
QC Lot: 31 AUG 95-A1
Concentration Units: ppb (v/v)

Date Analyzed: 31 AUG 95

Analyte	Concentration Spiked	Measured DCS1	Measured DCS2	Measured AVG	Accuracy Average(%) DCS	Accuracy Average(%) Limits	Precision (RPD) DCS	Precision (RPD) Limit
Methylene chloride	48.4	47.4	50.9	49.2	102	86-116	7.1	10
1,1-Dichloroethene	48.4	46.0	47.6	46.8	97	90-115	3.4	10
Trichloroethene	36.7	36.9	37.0	37.0	101	85-114	0.27	10
Toluene	48.4	49.0	49.6	49.3	102	92-114	1.2	10
1,1,2,2-Tetrachloroethane	55.5	57.5	56.6	57.0	103	76-124	1.6	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

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METHOD BLANK REPORT
Air Toxics
Project: 114353

Test: TO-14-MOD-G Volatile Organics by GCMS - Modified EPA TO-14
Matrix: AIR
QC Run: 31 AUG 95-A1

Date Analyzed: 31 AUG 95

Analyte	Result	Units	Reporting Limit
Vinyl chloride	ND	ppb (v/v)	2.0
1,1-Dichloroethene	ND	ppb (v/v)	2.0
Methylene chloride	ND	ppb (v/v)	2.0
1,1-Dichloroethane	ND	ppb (v/v)	2.0
Chloroform	ND	ppb (v/v)	2.0
1,1,1-Trichloroethane	ND	ppb (v/v)	2.0
Carbon tetrachloride	ND	ppb (v/v)	2.0
Benzene	ND	ppb (v/v)	2.0
1,2-Dichloroethane	ND	ppb (v/v)	2.0
Trichloroethene	ND	ppb (v/v)	2.0
Toluene	ND	ppb (v/v)	2.0
Tetrachloroethene	ND	ppb (v/v)	2.0
Chlorobenzene	ND	ppb (v/v)	2.0
Xylenes (total)	ND	ppb (v/v)	2.0
Benzyl chloride	ND	ppb (v/v)	2.0
1,3-Dichlorobenzene	ND	ppb (v/v)	2.0
1,4-Dichlorobenzene	ND	ppb (v/v)	2.0
1,2-Dichlorobenzene	ND	ppb (v/v)	2.0
Acetonitrile	ND	ppb (v/v)	10

ND = Not Detected

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	08/29/95
c/o Sepich & Associates	Date Received:	08/29/95
3617 East Thousand Oaks Blvd., #303	Date Analyzed:	08/31/95
Westlake Village, CA 91362		
	Work Order No.:	95-08-431
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS 21

Analyte	Concentration	Reportable Limit
Methane	5.98	1
TGNMO	ND	1

Sample Number: ISS 22

Methane	6.61	1
TGNMO	ND	1

Sample Number: PPS V 40'

Methane	58.3	1
TGNMO	22.2	1

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

L.A. By Products		Date Sampled:	08/29/95
c/o Sepich & Associates		Date Received:	08/29/95
3617 East Thousand Oaks Blvd., #303		Date Analyzed:	08/31/95
Westlake Village, CA 91362			
		Work Order No.:	95-08-431
Attn: Alex Feucht		Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6		Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Oxygen	18300	1000
Nitrogen	155000	1000
Methane	438000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	368000	1000
TGNMO	278	1

Sample Number: Method Blank

Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
Methane	ND	1
Carbon Monoxide	ND	2
Carbon Dioxide	ND	1
TGNMO	ND	1

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

L.A. By Products		Date Sampled:	08/29/95
c/o Sepich & Associates		Date Received:	08/29/95
3617 East Thousand Oaks Blvd., #303		Date Analyzed:	08/31/95
Westlake Village, CA 91362			
		Work Order No.:	95-08-431
Attn: Alex Feucht		Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6		Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limit(%)
Sample Number: PPS V 40' (Duplicate)				
Oxygen	125000	125000	0	0 - 25
Nitrogen	780000	783000	1	0 - 25
Carbon Dioxide	71000	71100	1	0 - 25
Methane	58.3	58.7	1	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
TGNMO	22.2	23.7	6	0 - 25

Reviewed and Approved _____ on 09/06/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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(931)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	8-29-95

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
		9:46 Am	C		ISS 21	✓	✓	✓						
		10:04 Am	C		ISS 22	✓	✓	✓						
		10:49 Am	G		PPS V 40'	✓	✓							
		11:53 Am	G		TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	8-29-95	12:12pm
RECEIVED BY:	[illegible]	CONSCIENCE	8-29-95	12:12pm
RELINQUISHED BY:	[illegible]	CONSCIENCE	8-29-95	13:30
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	CEL	8/29/95	13:30

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

L.A. By Products
c/o Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 09/28/95
Date Received: 09/28/95
Date Analyzed: 09/29/95

Work Order No.: 95-09-454
Method: EPA TO-14
Page 1 of 6

All concentrations are reported in ppb (v/v).

Sample Number: ISS 38

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Dichlorodifluoromethane	ND	10	Trichloroethene	44	10
Chloromethane	16	10	Cis-1,3-Dichloropropene	ND	10
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	10	Trans-1,3-Dichloropropene	ND	10
Vinyl Chloride	ND	10	1,1,2-Trichloroethane	ND	10
1,3-Butadiene	ND	10	Toluene	180	10
Bromomethane	ND	10	2-Hexanone	ND	50
Chloroethane	ND	10	4-Methyl-2-Pentanone	ND	25
Acetonitrile	ND	25	Dibromochloromethane	ND	10
Trichlorofluoromethane	17	10	1,2-Dibromoethane	ND	10
Acetone	870	25	Tetrachloroethene	220	10
1,1-Dichloroethene	21	10	Chlorobenzene	14	10
Methylene Chloride	500	25	Ethylbenzene	53	10
1,1,2-Trichloro-1,2,2-Trifluoroethane	95	10	Bromoform	ND	10
Carbon Disulfide	ND	50	1,1,2,2-Tetrachloroethane	ND	10
Trans-1,2-Dichloroethene	ND	10	Total Xylenes	330	20
1,1-Dichloroethane	ND	10	4-Ethyl Toluene	ND	10
2-Butanone	57	25	1,3,5-Trimethylbenzene	ND	10
Cis-1,2-Dichloroethene	ND	10	1,2,4-Trimethylbenzene	ND	10
Chloroform	12	10	Benzyl Chloride	ND	10
1,2-Dichloroethane	ND	10	1,3-Dichlorobenzene	ND	10
1,1,1-Trichloroethane	32	10	1,4-Dichlorobenzene	ND	10
Benzene	29	10	1,2-Dichlorobenzene	ND	10
Carbon Tetrachloride	ND	10	1,2,4-Trichlorobenzene	ND	25
1,2-Dichloropropane	ND	10	Hexachlorobutadiene	ND	10
Bromodichloromethane	ND	10			

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ANALYTICAL REPORT

L.A. By Products
c/o Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 09/28/95
Date Received: 09/28/95
Date Analyzed: 09/29/95

Work Order No.: 95-09-454
Method: EPA TO-14

All concentrations are reported in ppb (v/v).

Sample Number: ISS 39

Analyte	Conc	Reportable Limit
Dichlorodifluoromethane	1.1	0.2
Chloromethane	1.1	0.2
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	0.2
Vinyl Chloride	ND	0.2
1,3-Butadiene	ND	0.2
Bromomethane	ND	0.2
Chloroethane	ND	0.2
Acetonitrile	ND	0.5
Trichlorofluoromethane	0.5	0.2
Acetone	ND	0.5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	1.7	0.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	0.2
Carbon Disulfide	ND	1.0
Trans-1,2-Dichloroethene	ND	0.2
1,1-Dichloroethane	ND	0.2
2-Butanone	2.3	0.5
Cis-1,2-Dichloroethene	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	1.6	0.2
Benzene	2.1	0.2
Carbon Tetrachloride	0.3	0.2
1,2-Dichloropropane	ND	0.2
Bromodichloromethane	ND	0.2

Analyte	Conc	Reportable Limit
Trichloroethene	1.2	0.2
Cis-1,3-Dichloropropene	ND	0.2
Trans-1,3-Dichloropropene	ND	0.2
1,1,2-Trichloroethane	ND	0.2
Toluene	7.1	0.2
2-Hexanone	ND	1.0
4-Methyl-2-Pentanone	ND	0.5
Dibromochloromethane	ND	0.2
1,2-Dibromoethane	ND	0.2
Tetrachloroethene	1.3	0.2
Chlorobenzene	0.3	0.2
Ethylbenzene	1.7	0.2
Bromoform	ND	0.2
1,1,2,2-Tetrachloroethane	ND	0.2
Total Xylenes	7.0	0.4
4-Ethyl Toluene	ND	0.2
1,3,5-Trimethylbenzene	ND	0.2
1,2,4-Trimethylbenzene	ND	0.2
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.2

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L.A. By Products
c/o Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 09/28/95
Date Received: 09/28/95
Date Analyzed: 09/29/95

Work Order No.: 95-09-454
Method: EPA TO-14
Page 3 of 6

All concentrations are reported in ppb (v/v).

Sample Number: TSI

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Vinyl Chloride	2440	80	Trichloroethene	ND	80
Acetonitrile	ND	200	Toluene	14200	80
1,1-Dichloroethene	ND	80	Tetrachloroethene	700	80
Methylene Chloride	1000	200	Chlorobenzene	1220	80
1,1-Dichloroethane	ND	80	Total Xylenes	14200	160
Chloroform	ND	80	Benzyl Chloride	ND	80
1,2-Dichloroethane	ND	80	1,3-Dichlorobenzene	ND	80
1,1,1-Trichloroethane	260	80	1,4-Dichlorobenzene	ND	80
Benzene	3380	80	1,2-Dichlorobenzene	ND	80
Carbon Tetrachloride	ND	80			

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ANALYTICAL REPORT

L.A. By Products
c/o Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 09/28/95
Date Received: 09/28/95
Date Analyzed: 09/29/95

Work Order No.: 95-09-454
Method: EPA TO-14
Page 4 of 6

All concentrations are reported in ppb (v/v).

Sample Number: PPS #8

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Dichlorodifluoromethane	300	80	Trichloroethene	150	80
Chloromethane	100	80	Cis-1,3-Dichloropropene	ND	80
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	100	80	Trans-1,3-Dichloropropene	ND	80
Vinyl Chloride	310	80	1,1,2-Trichloroethane	ND	80
1,3-Butadiene	ND	80	Toluene	2100	80
Bromomethane	ND	80	2-Hexanone	ND	400
Chloroethane	ND	80	4-Methyl-2-Pentanone	ND	200
Acetonitrile	ND	200	Dibromochloromethane	ND	80
Trichlorofluoromethane	ND	80	1,2-Dibromoethane	ND	80
Acetone	3780	200	Tetrachloroethene	300	80
1,1-Dichloroethene	ND	80	Chlorobenzene	160	80
Methylene Chloride	770	200	Ethylbenzene	790	80
1,1,2-Trichloro-1,2,2-Trifluoroethane	420	80	Bromoform	ND	80
Carbon Disulfide	ND	400	1,1,2,2-Tetrachloroethane	ND	80
Trans-1,2-Dichloroethene	ND	80	Total Xylenes	1840	160
1,1-Dichloroethane	ND	80	4-Ethyl Toluene	ND	80
2-Butanone	960	200	1,3,5-Trimethylbenzene	ND	80
Cis-1,2-Dichloroethene	320	80	1,2,4-Trimethylbenzene	ND	80
Chloroform	ND	80	Benzyl Chloride	ND	80
1,2-Dichloroethane	ND	80	1,3-Dichlorobenzene	ND	80
1,1,1-Trichloroethane	240	80	1,4-Dichlorobenzene	ND	80
Benzene	400	80	1,2-Dichlorobenzene	ND	80
Carbon Tetrachloride	ND	80	1,2,4-Trichlorobenzene	ND	200
1,2-Dichloropropane	ND	80	Hexachlorobutadiene	ND	80
Bromodichloromethane	ND	80			

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ANALYTICAL REPORT

L.A. By Products
c/o Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill/J152-6

Date Sampled: 09/28/95
Date Received: 09/28/95
Date Analyzed: 09/29/95

Work Order No.: 95-09-454
Method: EPA TO-14
Page 5 of 6

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Conc	Reportable Limit	Analyte	Conc	Reportable Limit
Dichlorodifluoromethane	ND	0.2	Trichloroethene	ND	0.2
Chloromethane	ND	0.2	Cis-1,3-Dichloropropene	ND	0.2
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	ND	0.2	Trans-1,3-Dichloropropene	ND	0.2
Vinyl Chloride	ND	0.2	1,1,2-Trichloroethane	ND	0.2
1,3-Butadiene	ND	0.2	Toluene	2.0	0.2
Bromomethane	ND	0.2	2-Hexanone	ND	1.0
Chloroethane	ND	0.2	4-Methyl-2-Pentanone	ND	0.5
Acetonitrile	ND	0.5	Dibromochloromethane	ND	0.2
Trichlorofluoromethane	ND	0.2	1,2-Dibromoethane	ND	0.2
Acetone	ND	0.5	Tetrachloroethene	0.7	0.2
1,1-Dichloroethene	ND	0.2	Chlorobenzene	ND	0.2
Methylene Chloride	ND	0.5	Ethylbenzene	ND	0.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.2	Bromoform	ND	0.2
Carbon Disulfide	ND	1.0	1,1,2,2-Tetrachloroethane	ND	0.2
Trans-1,2-Dichloroethene	ND	0.2	Total Xylenes	ND	0.4
1,1-Dichloroethane	ND	0.2	4-Ethyl Toluene	ND	0.2
2-Butanone	ND	0.5	1,3,5-Trimethylbenzene	ND	0.2
Cis-1,2-Dichloroethene	ND	0.2	1,2,4-Trimethylbenzene	ND	0.1
Chloroform	ND	0.2	Benzyl Chloride	ND	0.2
1,2-Dichloroethane	ND	0.2	1,3-Dichlorobenzene	ND	0.2
1,1,1-Trichloroethane	ND	0.2	1,4-Dichlorobenzene	ND	0.2
Benzene	ND	0.2	1,2-Dichlorobenzene	ND	0.2
Carbon Tetrachloride	ND	0.2	1,2,4-Trichlorobenzene	ND	0.5
1,2-Dichloropropane	ND	0.2	Hexachlorobutadiene	ND	0.2
Bromodichloromethane	ND	0.2			

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	09/28/95
c/o Sepich & Associates	Date Received:	09/28/95
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	09/29/95
Westlake Village, CA 91362		
	Work Order No.:	95-09-454
Attn: Alex Feucht	Method:	EPA TO-14
RE: Penrose Landfill/J152-6	Page 6 of 6	

All concentrations are reported in ppb (v/v).

QA/QC

Sample Number: TSI (Duplicate)

Analyte	Sample Conc.	Dup. Conc.	RPD%	Control Limit (%)
Dichlorodifluoromethane	3110	3100	0	0 - 30
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	420	420	7	0 - 30
Vinyl Chloride	2440	2630	7	0 - 30
Chloroethane	120	120	0	0 - 30
Trichlorofluoromethane	84	80	5	0 - 30
Acetone	32000	32700	2	0 - 30
Methylene Chloride	1000	1000	0	0 - 30
1,1,2-Trichloro-1,2,2-Trifluoroethane	380	380	0	0 - 30
2-Butanone	14100	14500	3	0 - 30
Cis-1,2-Dichloroethene	3000	3100	3	0 - 30
1,1,1-Trichloroethane	260	260	0	0 - 30
Benzene	3380	3480	3	0 - 30
Toluene	14200	14500	2	0 - 30
Tetrachloroethene	700	750	7	0 - 30
Chlorobenzene	1220	1250	2	0 - 30
Ethylbenzene	7350	7570	3	0 - 30
Total Xylenes	14200	14600	3	0 - 30

Reviewed and Approved _____ on 10/06/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	09/28/95
c/o Sepich & Associates	Date Received:	09/28/95
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	09/28/95
Westlake Village, CA 91362		
	Work Order No.:	95-09-454
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS 38

Analyte	Concentration	Reportable Limit
Methane	ND	1.0
TGNMO	ND	1.0

Sample Number: ISS 39

Methane	ND	1.0
TGNMO	ND	1.0

Sample Number: TSI

Oxygen	18500	1000
Nitrogen	155000	1000
Methane	442000	1000
Carbon Dioxide	374000	1000
Carbon Monoxide	167	2.0
TGNMO	246	1.0

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	09/28/95
c/o Sepich & Associates	Date Received:	09/28/95
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	09/28/95
Westlake Village, CA 91362		
	Work Order No.:	95-09-454
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: PPS #8

Analyte	Concentration	Reportable Limit
TGNMO	86.2	1.0

Sample Number: Method Blank #1

Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1.0
Carbon Monoxide	ND	2.0
Carbon Dioxide	ND	1.0
TGNMO	ND	1.0

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	09/28/95
c/o Sepich & Associates	Date Received:	09/28/95
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	09/28/95
Westlake Village, CA 91362		
	Work Order No.:	95-09-454
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank #2

Analyte	Concentration	Reportable Limit
Methane	ND	1000
Carbon Dioxide	ND	1000

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 95-09-401-4 (Duplicate)				
Oxygen	210000	210000	0	0 - 25
Nitrogen	778000	786000	1	0 - 25
Methane	280	281	0	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	351	353	1	0 - 25
TGNMO	ND	ND	NA	0 - 25

Reviewed and Approved _____ on 10/06/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	9/28/95

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
38	9/28/95	11:28 Am	C	1	ISS 38	✓	✓	✓						
39	9/28/95	10:54 Am	C	1	ISS 39	✓	✓	✓						
TSI	9/28/95	8:49 Am	G	1	TSI	✓	✓						✓	
8	9/28/95	9:32 Am	G	1	PPS # 8	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert Allister	LOS ANGELES BY-PRODUCTS	9/28/95	11:30AM
RECEIVED BY:	[illegible]	L.A. BY-PRODUCTS	9-28-95	11:30AM
RELINQUISHED BY:	[illegible]	L.A. BY-PRODUCTS	9-28-95	2:20PM
RECEIVED BY:	[illegible]	CALSCIENCE	9-28-95	2:20 p.m.
RELINQUISHED BY:	[illegible]	CALSCIENCE	9-28-95	1550
RECEIVED BY:	[illegible]	CALSCIENCE	9/28/95	1550

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Sepich Associates Inc.

METHANE SPECIALISTS

3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362

TEL (818) 707-3036
(805) 373-9321
FAX (818) 707-3012
(805) 373-8987

June 26, 1995

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Second Quarter, 1995
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the seventh quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period April - June, 1995. Monitoring and sampling for this report was performed on April 11, 12, 20, and 21, May 2, 5, 9, and 19, and June 2, 9, 17. and 20, 1995.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements pending results from initial monitoring. The Rule also requires simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC, TGNMO as presented in the laboratory reports attached to this report) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B, Table I for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants..

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection a of 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, April through June 1995, field monitoring was conducted on April 11, 12, and 21, May 2, 5, and 19, and June 2, 9, 17, and 20. Perimeter probe, integrated surface, and power plant inlet samples were collected for laboratory analysis on April 20, May 9, and June 20, 1995.

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on April 11, April 21, May 5, May 19, June 2, and June 17, 1995 was conducted by Positive Lab Service personnel using a Bacharach H Combustible Gas Detector. Probe sampling was conducted by Los Angeles By-Products personnel on April 20, May 9, and June 20, 1995.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vacuum in the chamber. A valved flowmeter between the sampling probe end and Tedlar bag regulates the sampling rate (as required at approximately 400 cubic centimeter per minute for the integrated sampling).

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Stanton, California, within 24 hours of sampling.

Perimeter probe sampling was conducted at Probe Q, in April, May, and June 1995. A map of probe locations can be found in Exhibit A, perimeter probe monitoring data sheets are included in Exhibit C, and analytical results are included in Exhibit D.

B.2 Integrated Surface Sampling (ISS)

Integrated surface sampling was conducted on April 20, May 9, and June 20, 1995, by focusing sampling efforts in zones where previously conducted instantaneous surface monitoring had found the highest TOC concentrations. During instantaneous surface monitoring, no areas had TOC readings (greater than non-detect) in April, May, or June. Traverse grids for ISS sampling were selected to sample previously "hot" areas or to fill in areas that had not previously been sampled. In April Areas # 10 and # 9 were sampled (see Integrated Surface Sampling Map in Exhibit A), in May Areas G and V were sampled, and in June Areas 7 and 39 were sampled.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. Maps showing the areas of integrated surface sampling are included in Exhibit A (note that this quarter's ISS map includes all grids traversed for this Rule 1150.1 compliance program).

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring was conducted on April 12, May 2, and June 2, 1995. In April, May, and June no TOC readings (greater than non-detect) registered on the OVA.

Instantaneous surface monitoring Path A was traversed on April 12 and June 2 and Path B was traversed on May 9, 1995. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling

10-liter bag samples were collected from the Pacific Energy (PE) electrical generation plant input pipeline on April 20, May 9, and June 20, 1995. TOC was monitored with a recently calibrated GasTech Natural Gas Meter, Model NP-204, before the samples were collected. Inlet gas was analyzed for hydrogen sulfide with a Dreager Tube.

B.5 Simultaneous Inlet/Exhaust Sampling

Simultaneous inlet/exhaust samples were collected on May 9, 1995. The gas collection system and the electrical power (disposal system) plant operated by Pacific Energy is

operating under an SCAQMD permit to operate, an SCAQMD permit for the collection system, and a power plant permit. The May 9, 1995 plant inlet sampling event was synchronized with Pacific Energy's annual source tests (compliance with Rule 1110.1 for nitrogen oxides, Rule 407(a)(1) for carbon monoxide, Rule 431.1 for hydrogen sulfide content in fuel gas) to satisfy the SCAQMD Rule 1150.1 requirement for annual simultaneous source test sampling. The analytical results are included in Exhibit E.

B.6 Reporting Requirements

This is the seventh in a series of quarterly reports and includes the 1995 simultaneous inlet/exhaust sample results for Penrose Landfill. Los Angeles By-Products solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring had been performed bi-monthly by Positive Lab Service. After April 1994, their early (to mid-) month data was used to select the monthly probe sampling stations and their (mid to) late-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

April 11, 1995 monitoring results were highest from Probe Q (3% @ 10' and 2% @ 40'). Probe Q, 10-feet, was sampled on April 20, 1995. The laboratory result for methane analysis was less than 1% by volume.

Table I - April 1995
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON April 11, 1995

Probe Number	Screen Depth (feet)	Field Values 4/11/95 (% Vol)	Field Values 4/20/95 (% Vol)	Lab Results 4/20/95 (% Vol)	Follow-up Field Values 4/21/95 (% Vol)
Q	10	3	1	0.000946	2
Q	40	2	NC	NC	2

Note: Laboratory samples were collected 4/20/95. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected.

ND None detected.

May 5, 1995 monitoring results were highest from Probes Q (3% @ 10', 1% @ 40', and 1% @ 120'). Probe Q, 10-feet, was sampled on May 9, 1995. Analytical results from the May 9, 1995 sample recorded less than 1% methane by volume.

Table II - May 1995
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON MAY 9, 1995

Probe Number	Screen Depth (feet)	Field Values 5/5/95 (% Vol)	Field Values 5/9/95 (% Vol)	Lab Results 5/9/95 (% Vol)	Follow-up Field Values 5/19/95 (% Vol)
Q	10	3	ND	<0.0001	ND

Note: Laboratory samples were collected 5/9/95. Laboratory results are volume percent of methane. Field values are volume percent TOC.

The June 2, 1995 monitoring results were highest from Probes P (1% @ 80'). During the June 20, pre-sampling monitoring Probe P at 80 feet registered ND, however, Probe P at 40 feet registered 1% and was sampled on June 20, 1995. Analytical results from the June , 1995 samples were less than 1% methane by volume.

Table III - June 1995
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN ND BY VOLUME TOC
ON JUNE 2 and JUNE 20, 1995

Probe Number	Screen Depth (feet)	Field Values 6/2/95 (% Vol)	Field Values 6/20/95 (% Vol)	Lab Results 6/20/95 (% Vol)	Follow-up Field Values 6/ /95 (% Vol)
P	40	ND	1	<0.0001	ND
P	80	1	ND	NC	1

Note: Laboratory samples were collected 6/20/95. Laboratory results are volume percent of methane. Field values are volume percent TOC.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for VOC by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC (TGNMO, as presented by CEL reports) for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FIRST QUARTER 1995
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
4/20/95 AREA # 10	1.1	<1.0
4/20/95 AREA # 9	<1.0	<1.0
5/9/95 AREA # G	50	1.34
5/9/95 AREA # V	<1.0	<1.0
6/20/95 AREA # 7	1.51	11.3
6/20/95 AREA # 39	<1.0	7.73

Note: Laboratory samples were designated ISS # (Area number).

< Less than the detection limit given.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, all OVA readings were non-detect during the Second Quarter of 1993.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 45.2% methane on April 20, 44.7% methane on May 9, and 43.5% methane on June 20, 1995. Analytical results for fixed gases, NMHC, and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

PE conducted source test sampling on May 9, 1995. The power plant is using a mixture of landfill gas from Penrose, Sheldon, and Bradley landfills. PE's source test samples are from the mixture that is being burned. LA By-Products Company sampled from an inlet containing Penrose gas only. An exhaust sample representing a Penrose Landfill combustion product only can not be obtained. The PE permits are managed by the SCAQMD Landfill Group. SCAQMD files regarding those permits are hereby referred to for additional information regarding plant inlet/exhaust sampling data. The analytical results from the samples collected on May 9, 1995 are included in Exhibit E.

C.6 Report Requirements

This report constitutes the 1995, Second Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the current monitoring and laboratory results, mitigation measures are being implement as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

High methane readings in the probes prompted Los Angeles By-Products Company and Pacific Energy to institute a mitigation well program in the Spring of 1994. Adjusting flow rates at the wells to manipulate methane at the probes is an on-going process that has been successful in reducing methane concentrations at the probes. A year ago at least six of the perimeter probe stations regularly registered high TOC readings. This quarter only two perimeter probe stations (P and Q) had (substantially reduced) measurable TOC concentrations.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
JUN. 30 1996
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.607/atf

Public Facilities Branch / SCAQMD June 26, 1995

Distribution:

Los Angeles By-Products Company

- Mr. Mike McAllister

City of Los Angeles, Environmental Affairs Department

- Ms. Tania Weaver

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location Map, Integrated Surface Sampling Map and Traverse Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Second Quarter, 1995
- EXHIBIT D: Laboratory Analytical Results - Second Quarter, 1995
- EXHIBIT E: Annual Source Test Data

EXHIBIT A

Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

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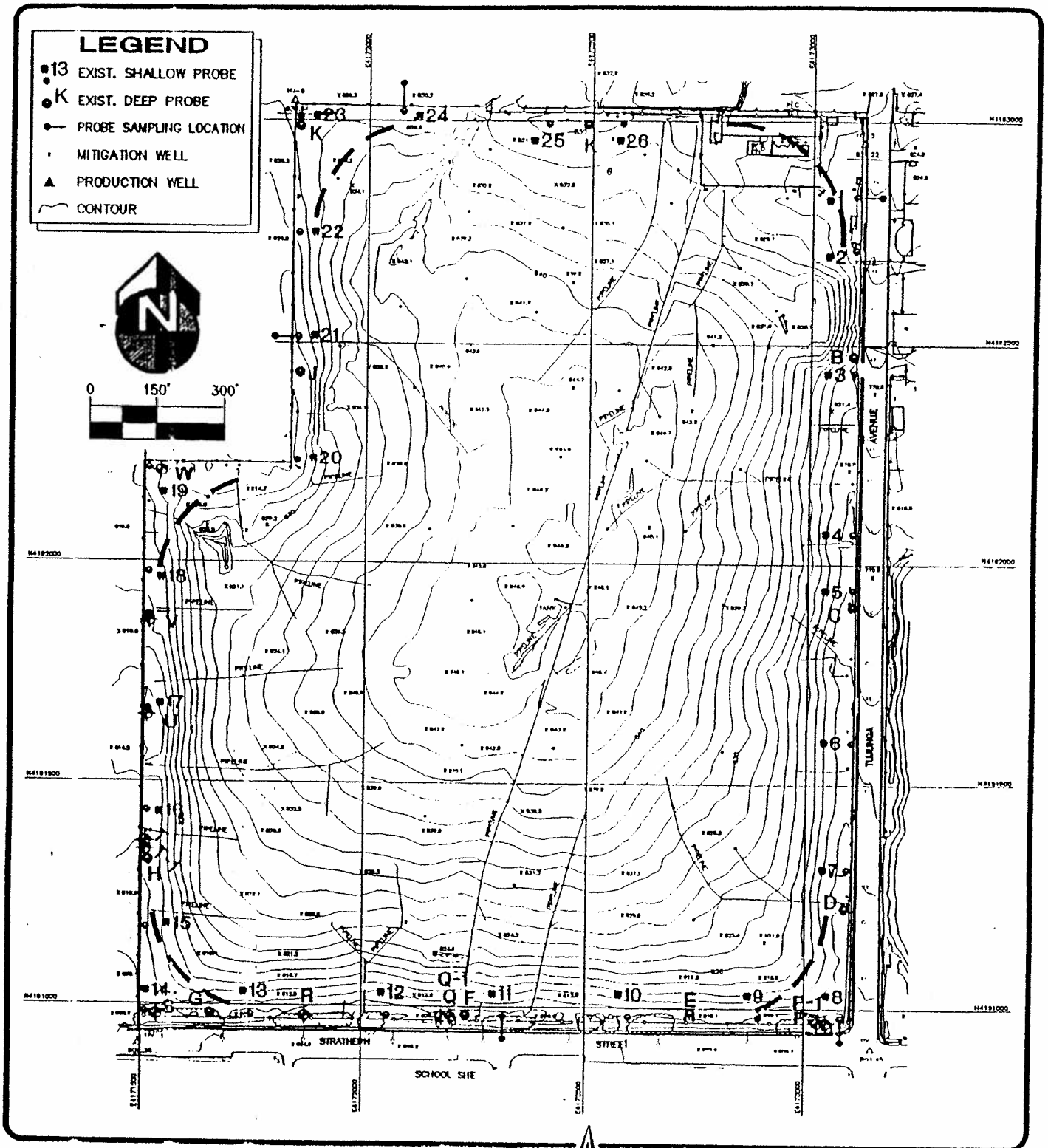
PEMROSE LANDFILL
WELL AND PROBE LOCATIONS



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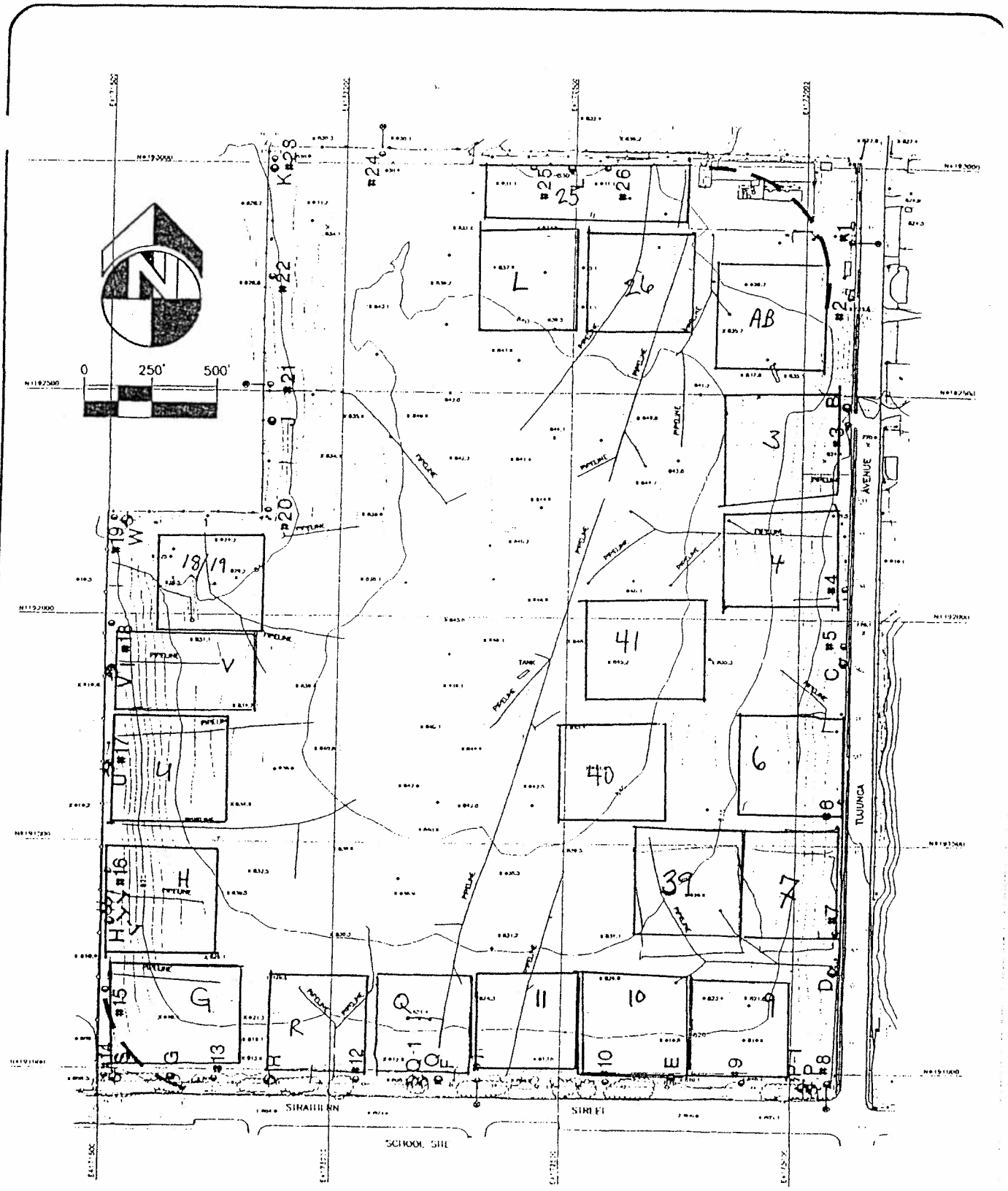

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CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GEOLOGISTS

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING

SAMPLING DATE _____ SAMPLER _____ SHEET ___ OF ___

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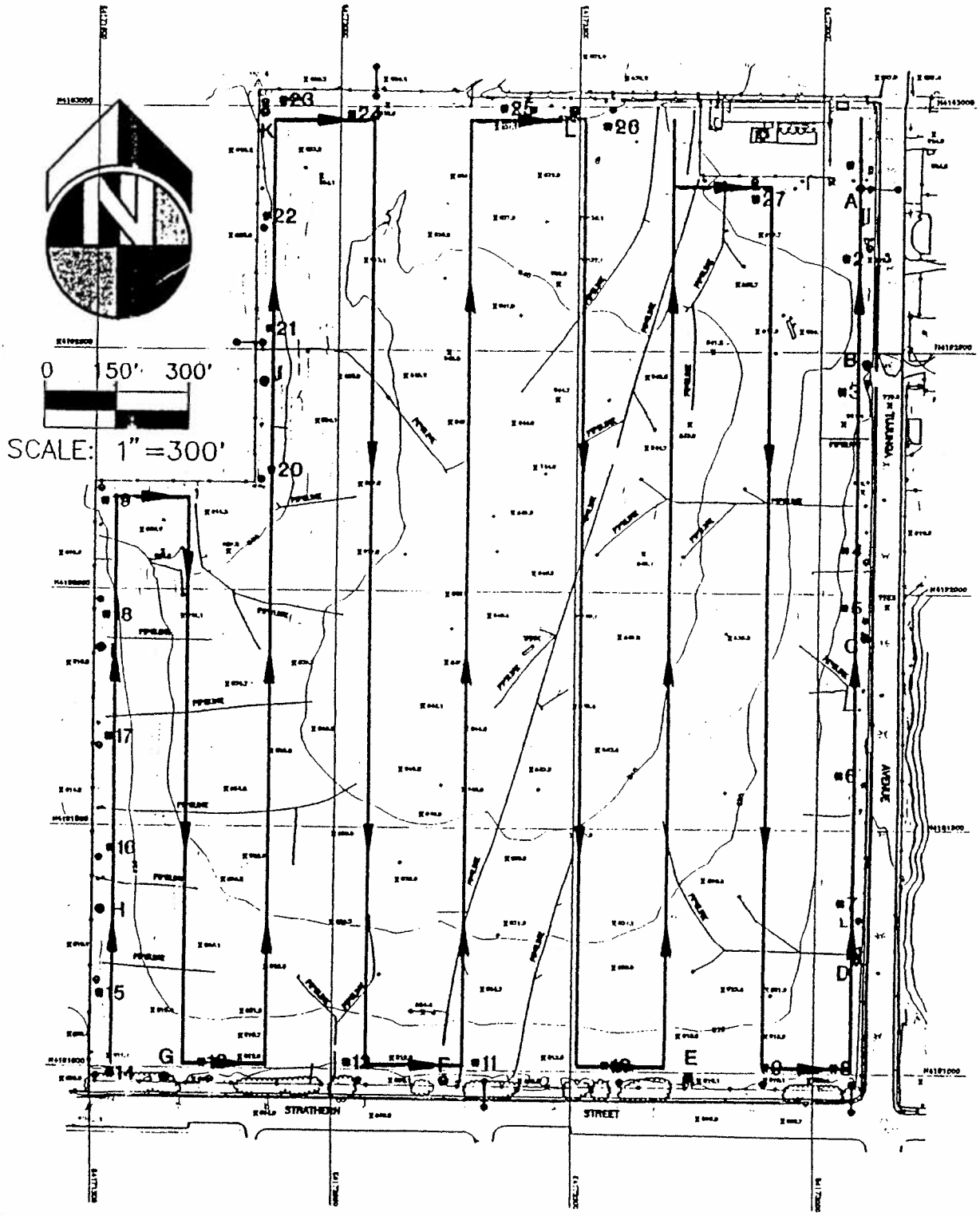
INSTANTANEOUS SURFACE MONITORING



PATH A

Drawing prepared by:

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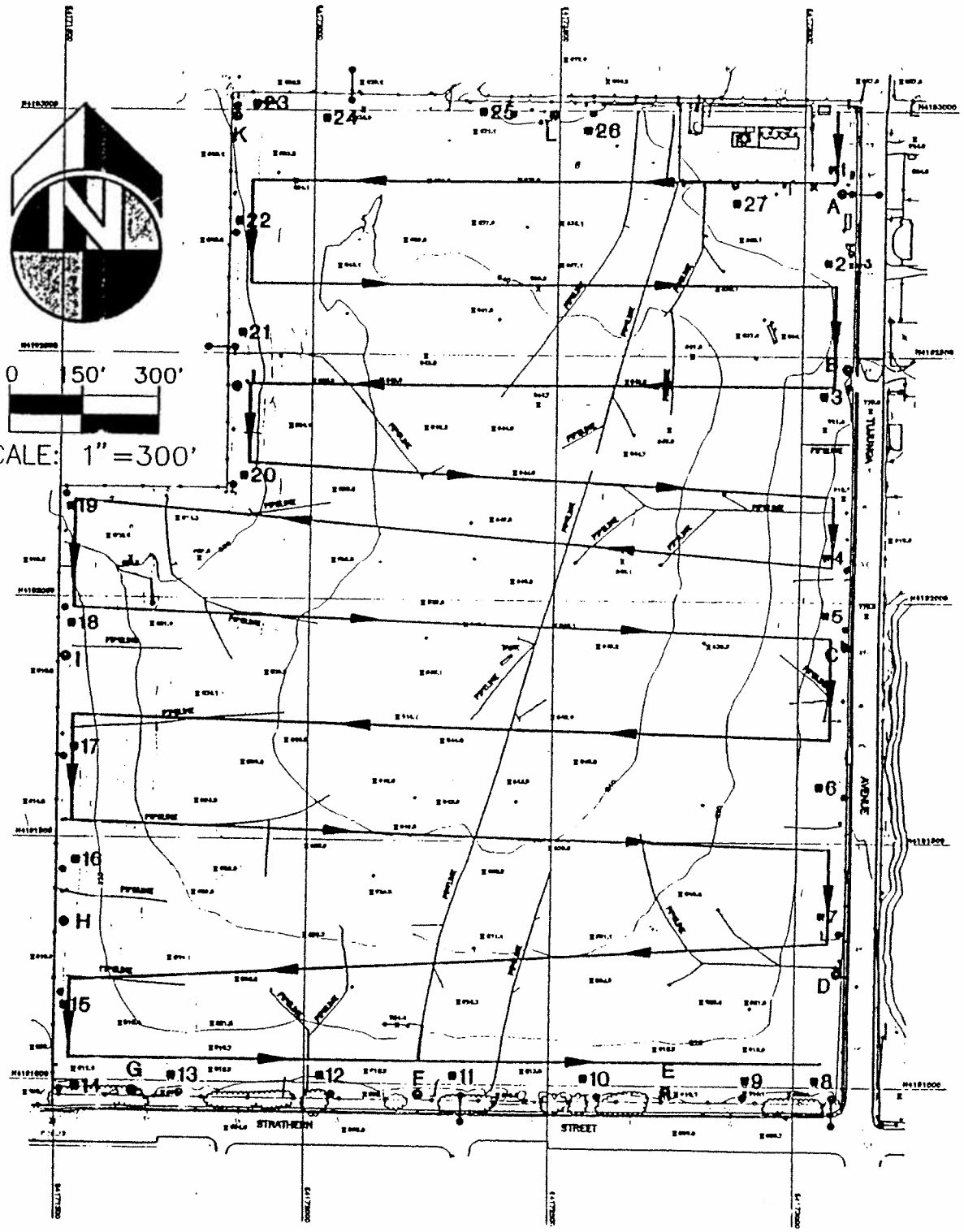
INSTANTANEOUS SURFACE MONITORING



PATH B

Drawing prepared by:

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EXHIBIT B

Core Group Toxic Air Contaminants

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TABLE I: TOXIC AIR CONTAMINANTS -- CORE GROUP

1. Acetonitrile CH_3CN
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1 Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2 Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1 Dichloroethene (Vinylidene Chloride) $CH_2:CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C:CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1 Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichloroethylene $CHCl:CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2:CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - Second Quarter, 1995

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Revised
April 28, 1995

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

FILE NO: 6022

LAB NO: 5117085901

SAMPLE: On 04/11/95 at 15:00, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

April 28, 1995

FILE NO: 6022

LAB NO: 5117085901

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	3	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	2	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8087

JOB NAME: Penrose

JOB No. J152-6

DATE 04/12/95

INSPECTION REPORT

CLIMATE:

bright	(cloudy)	<32° F	(71°-85)	still
clear	overcast	33°-55°	86°-100°	breeze
fog	rain	56°-70°	>100° F	wind

dry
(moderate)
humid

LOCATION: Penrose

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert M. McAllister

REMARKS: The weather was warm with thick high Clouds. There was a slight breeze of 2.8 - 4.4 mph. from the South. Wind velocity was calculated by an electronic Wind Speed indicator at 8:11 Am.

Inspector followed path 'A' for the monitor. The OVA instrument used in monitor was the Foxboro 128 last calibrated at 7:00 Am on 04/12/95. Inspector began monitor at 8:17 Am and finished at 11:05 Am. Inspector No readings greater than 500 ppm.

☐ REINSPECTION REQUIRED

Robert m allister
INSPECTOR

PRINCIPAL

002119

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WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: Penrose

JOB No. 3152-6

DATE 04/20/95

INSPECTION REPORT

CLIMATE: bright, cloudy, (clear), overcast, fog, rain

<32° F, 33°-55°, 56°-70°, (71°-80°), 80°-100°, >100° F

(still), breeze, wind

dry, (moderate), humid

LOCATION: Penrose

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): Robert McAllister

REMARKS: Clear blue skies, No wind and warm weather on this day of sampling. The last recorded precipitation was over two weeks ago.

The OVA instrument used in testing of ISS samples was the FoxBORO 128 last calibrated at 7:00 AM on 04/20/95. The TOC instrument is a Natural Gas Indicator model npL-28 last calibrated at 9:10 AM 3-20-95 by Tony Robinson at P.E. H_2S tests were done with Drager tubes and Drager Pump. All air samples were drawn into 10 liter Tedlar bags and placed in a Black Trash bag

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

002120

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: Penrose

JOB No. J152-6

DATE 04/20/95

REMARKS CONTINUED:

to protect from Sunlight. The integrated Surface Sampler used is a portable self-contained unit with its own internal power source, which collected Samples at 400 cc/min.

ISS 10 was collected at 9:14 AM with results of ND by OVA and ND by drager tubes. ISS 9 was collected at 9:38 AM with results of ND by drager tubes and ND by OVA. The TSI was collected at 10:42 AM with results of 45% TOC and 105 H_2S. PPS Q 10' was collected at 11:17 AM with results of 1% TOC and H_2S ND.

Robert Madrid
INSPECTOR

PRINCIPAL

SHEET OF

002121

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 04/20/95
Job # 5152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26	H_2S	OVA
ISS 10	ND	ND
ISS 9	ND	ND

REMARKS:
Cloudy weather Temperature was Cool with a 2 to 3.9 mph wind from the South. Last precipitation was over one week ago.

PROBE #			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #		TOC	H_2S
Q	10'	1%	ND
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TOI	45%	105

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8985

For [illegible]ed by:

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(457)

Instantaneous Surface Monitors

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	04/20/95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		Methane				Fixed Gas	REMARKS
10	04/20/95	9:14 AM	C	1	ISS 10	X	X		X					
9	04/20/95	9:38 AM	C	1	ISS 9	X	X		X					
TSI	04/20/95	10:42 AM	G	1	Plant Inlet SAMPLE	X	X						X	
Q 10'	04/20/95	11:17 AM	G	1	Probe Q 10'	X	X							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	04/20/95	11:35 AM.
RECEIVED BY:	[illegible]	LA BY-PRODUCTS	4/20/95	11:35AM
RELINQUISHED BY:	[illegible]	LA BY-PRODUCTS	4/20/95	12:27PM
RECEIVED BY:	[illegible]	CALSCIENCE	4/20/95	12:27 P.M.
RELINQUISHED BY:	[illegible]	CALSCIENCE	4/20/95	14:40
RECEIVED BY:	[illegible]	CEL	4/20/95	1440

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POSITIVE LAB SERVICE

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Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

April 28, 1995

FILE NO: 70237

LAB NO: 5117085800

SAMPLE: On 04/21/95 at 15:30, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 E. Washington Blvd.
Commerce, CA 90040

April 28, 1995

FILE NO: 70237

LAB NO: 5117085800

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	2	@ 120'	2	@ 10'	ND	@ 10'	ND
@ 40'	2	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. Robert McAllister

CONFIDENTIAI

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8087

JOB NAME: PENROSE

JOB No. 5152-6

DATE 05/02/95

INSPECTION REPORT

CLIMATE: (bright) cloudy clear (overcast) fog rain | <32° F (71°-80°) 33°-55° 86°-100° 56°-70° >100° F | still (breeze) wind | dry (moderate) humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: The weather was bright with a layer of High clouds. The breeze came from the South west at 2.7 to 3.9 mph. Velocity of wind was measured by an electronic wind speed indicator. Last recorded precipitation was over one month ago. Instrument used was the FoxBoro 128 last calibrated at 3:15 pm 05/01/95.

The inspector followed course Path 'B'. The monitor began at 8:07 am and finished at 10:22 am. Inspector recorded no readings above 500 ppm. on monitor.

☐ REINSPECTION REQUIRED

Robert mc allister
INSPECTOR

PRINCIPAL

002126

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

May 24, 1995

RECEIVED
MAY 3 1995
L.A. BY-PROD CO.

FILE NO: 6022

LAB NO: 5143125201

SAMPLE: On 05/05/95 at 16:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

May 24, 1995

FILE NO: 6022

LAB NO: 5143125201

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Ql	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	3	@ 120'	1	@ 10'	ND	@ 10'	ND
@ 40'	1	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8087

JOB NAME: PENROSE

JOB No. J152-6
DATE 05/09/95

INSPECTION REPORT

CLIMATE: bright, cloudy, (Tesh) overcast, fog, rain | <32° F, 33°-55°, 56°-70°, (71°-85°), 86°-100°, >100° F | (still), breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was warm with No Detectable wind and clear blue Skies. The last recorded precipitation was over two weeks ago.

Drager tubes and Drager Pump were used to test H_2S levels of all samples. The DVA instrument used for ISS samples was the Foxboro 128 last calibrated on 05/01/95 at 3:15 p.m. A natural Gas Indicator model npl-28, last calibrated at 9:10 AM on 3-20-95 by Tony Robinson at P.E. ISS samples were collected with a portable Self-contained unit with its own internal

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

002129

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9171
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 05/09/95

REMARKS CONTINUED: power source, which collected samples at 400 cc/min. All samples were collected with 10 liter Tedlar bags and placed in a Black Trash bag for protection from Sunlight.

ISS G was collected at 9:11 AM with field tests, ND of H_2S and ND of OVA. ISS V was collected at 9:44 AM with field tests, ND of H_2S and ND of OVA. The Plant Inlet (TSI) was collected at 10:01 AM with field tests of 120 ppm of H_2S and 46% TOC. PPS Q 10' was collected at 11:24 AM with ND of H_2S and ND of TOC.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 211-4170

PENROSE LANDFILL

Date 05/09/95
Job # J152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1	H_2S	OVA
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
ISS G	ND	ND
ISS V	ND	ND

REMARKS:
ISS G 9:41 AM
ISS V 9:44 AM
TSI 10:01 AM
Q 10' 11:24 AM

PROBE #			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #		H_2S	TOC
Q	10'	ND	ND
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	120 ppm	46%

For Tested by: METHANE SPECIALISTS WESTLAKE V

002131

CONFIDENTIAL

JOB NAME: PENROSE LANDFILL — PERIMETER PROBE SAMPLES, PLANT INLET SAMPLE

FILE (JOB#): J152-6

DATE: 05/09/95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
G	05/09/95	9:11 AM			ISS G	✓	✓		✓					
V	05/09/95	9:44 AM			ISS V	✓	✓		✓					
TSI	05/09/95	10:01 AM			Plant Inlet	✓	✓						✓	
Q 10'	05/09/95	11:24 AM			Probe Q 10'	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	05/09/95	11:50 AM
RECEIVED BY:	[illegible]	CALSCIENCE	05/09/95	11:50 AM
RELINQUISHED BY:	[illegible]	CALSCIENCE	5/9/95	13:45
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	CEC	5/11/95	13:45

002132

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

REVISED
May 24, 1995

Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

RECEIVED
JUN 15 1995
LA BY-PROD CO.

FILE NO: 70237

LAB NO: 5143125001

SAMPLE: On 05/19/95 at 14:00, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	1
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

REVISED
May 24, 1995

Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 E. Washington Blvd.
Commerce, CA 90040

FILE NO: 70237

LAB NO: 5143125001

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	1
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. Robert McAllister

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 6/1/95

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, (overcast), (rain) | <32° F, 33°-55°, 56°-70°, (71°-85°), 86°-100°, >100° F | (still), breeze, wind | dry, moderate, (humid)

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert 'Bob' M'Allister

REMARKS: The monitor was cancelled to a later date when it began to Rain during monitor. Contractor was following PATH 'A' Foxboro 128 instrument was calibrated today at 7:15 AM.

☒ REINSPECTION REQUIRED

Robert m allister
INSPECTOR

PRINCIPAL

IS-2075 4/15/94

SHEET__OF__

002135

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

June 15, 1995

FILE NO: 6022

LAB NO: 5165065200

SAMPLE: On 06/02/95 at 15:30, a Positive Lab Service representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	NA	E	ND	R	(7)*
7	ND	19	NA	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

June 15, 1995

FILE NO: 6022

LAB NO: 5165065200

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	NA	Red	ND	@ 10'	ND
Yellow	ND	Yellow	NA	Yellow	ND	@ 40'	ND
Orange	ND	Orange	NA	Orange	ND	@ 80'	1
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
NA Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6

DATE 6/7/95

INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still	dry
clear	overcast	33°-55°	86°-100°	breeze	moderate
fog	rain	56°-70°	>100° F	wind	humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Due to a lack of Full charge of Battery, OVA was aborted. Equipement malfunction.

☒ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

IS-0075 4/15/94

SHEET__OF__

002138

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8087

JOB NAME: Penrose

JOB No. J152-6

DATE 6/9/95

INSPECTION REPORT

CLIMATE: (bright) clear fog cloudy overcast rain | <32° F 33°-55° 56°-70° 71°-85° 86°-100° >100° F | (still) breeze wind | (dry) moderate humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): ROBERT M. McAllister

REMARKS: Today was Bright sunshine with few clouds and a slight South west breeze at 1.6 - 3.4 mph. The air remained still except for this occassional breeze. Wind velocity was determined by an electronic wind speed indicator. The Foxboro 128 instrument used by contractor was last calibrated on June 1, 1995.

Contractor followed path 'A'. Monitor began at 9:14AM and ended at 11:55 AM. Inspector discovered no readings greater than 0.500 ppm, Resulted with a ND in monitor.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

002139

CONFIDENTIAL

Penrose Methane Monitoring

Date 06/17/95 Time 11:05 Tech MZ

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol.	
1		ND		S 80'		ND	
2		ND		S 120'		ND	
3		ND		14		ND	
4		ND		15		ND	
5		ND		H		ND	
6		ND		T 10'		ND	
7		ND		T 40'		ND	
8		ND		T 80'		ND	
P 10'		ND		T1 72'		ND	
P 40'		ND		16		ND	
P 80'		1		U 10'		ND	
P1 120'		ND		U 37'		ND	
9		ND		U 68'		ND	
10		ND		17		ND	
11		ND		V 10'		ND	
Q 10'		ND		V 40'		ND	
Q 40'		ND		V 80'		ND	
Q 80'		ND		I		ND	
Q1 120'		ND		18		ND	
Q1 160'		ND		19		ND	
12		ND		W 10'		ND	
R 10'		ND		W 40'		ND	
R 40'		ND		W 80'		ND	
R 80		ND		W 120'		ND	
R 120'		ND		W 153'		ND	
13		ND		20		ND	
S 10'		ND		J		ND	

CONFIDENTIAL

Penrose Methane Monitoring

Date 06/17/95 Time 11.00 Tech. MZ

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol.	
22		ND					
23		ND					
K		ND					
24		ND					
25		ND					
26		ND					
B		ND					
C-Red		ND					
C-Yellow		ND					
C-Orange		ND					
C-Green		ND					
D		ND					
E		ND					
F		ND					
G		ND					
N-Red		ND					
N-Yellow		ND					
N-Orange		ND					
N-Green		ND					

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 6/20/95

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, ~~overcast~~, fog, rain | <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | ~~still~~, breeze, wind | dry, ~~moderate~~, humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: There was a high layer of clouds and very little wind, .4 to 1.7 mph. out of the South. Last recorded precipitation was on Friday June 16, 1995.

The ova instrument used in testing of ISS samples was the Foxboro 128 last calibrated on 6/20/95 at 7:05 am. The TOC instrument used in tests was the Natural Gas Indicator model npl-28 last calibrated at 9:10am on 3-20-95 by Tony Robinson at P.E. H_2S tests were done with Drager tubes and Drager Pump. All air samples were

☐ REINSPECTION REQUIRED

Robert mc Allister
INSPECTOR

PRINCIPAL

SHEET ___ OF ___

002142

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 6/20/95

REMARKS CONTINUED: into 10-liter Tedlar bags and placed in a Black Trash Bag for protection from Sunlight. The integrated Surface Sampler used by contractor is a portable self-contained unit with its own internal power source, which collected samples at 400 cc/min.

ISS 7 was taken at 9:45 am with results of 7ppm OVA and H_2S test. ISS 39 was taken at 10:08 am with Results of 6ppm by OVA and ND by H_2S tests. *PPS P 40' was taken at 10:40 am with results of 1% by TOC and ND by H_2S tests. The TSI was taken at 11:20 am with results of 115 ppm H_2S and 46% TOC. *Contractor discovered ND at probe P 80', which is the designated probe to ~~man~~ sample according to monthly reports by Smith Emery, however contractor did monitor P 40' and received a 1% TOC, thus took a sample from this depth of P 40'.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET__OF__

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 06-20-95
Job # 5152-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
	OVA	H_2S
ISS 7	7ppm	ND
ISS 39	6ppm	ND

REMARKS: Robert McAllister
ISS 7 9:45 Am
ISS 39 10:08 Am
P 40' 10:40 Am
TSI 11:20 Am
Near ISS AREAS 7, 39 There were several excavations 3 to 6 feet deep

PROBE #		H_2S	TOC
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'	ND	ND
	80'		
P-1	120'		

PROBE #		H_2S	TOC
Q	10'		
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	115 ppm	46%

For ... ed by: ... ERICH ASSOCIATES, Inc. METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-898

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(579)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	Instantaneous Surface Samples PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	06-20-95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert M McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
J152-6	6-20-95	9:45 AM	C	1	ISS 7	✓	✓		✓					
J152-6	6-20-95	10:08 AM	C	1	ISS 39	✓	✓		✓					
J152-6	6-20-95	10:40 AM	G	1	Probe P 40'	✓	✓							
J152-6	6-20-95	11:20 AM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert M McAllister	LOS ANGELES BY PRODUCTS	6-20-95	11:35AM
RECEIVED BY:	[illegible]	LA BY-PRODUCTS	6-20-95	11:35AM
RELINQUISHED BY:	[illegible]	LA BY PRODUCTS	6-20-95	12:06PM
RECEIVED BY:	[illegible]	[illegible]	6-20-95	12:06PM
RELINQUISHED BY:	[illegible]	[illegible]	6-20-95	1242

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EXHIBIT D

Laboratory Analytical Results - Second Quarter, 1995

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates		Date Sampled:	04/20/95
3617 East Thousand Oaks Blvd., Suite 303		Date Received:	04/20/95
Westlake Village, CA 91362		Date Analyzed:	04/21-22/95
		Work Order No.:	95-04-457
Attn: Alex Feucht		Method:	EPA TO-14 (1150.1 Compounds)
RE: Penrose Landfill		Page 1 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: ISS 10		
Vinyl Chloride	ND	0.400
Acetonitrile	ND	2500
1,1-Dichloroethene	ND	0.400
Methylene Chloride	28.6	1.00
1,1-Dichloroethane	ND	0.400
Chloroform	ND	0.400
1,2-Dichloroethane	ND	0.400
1,1,1-Trichloroethane	1.59	0.400
Benzene	2.65	0.400
Carbon Tetrachloride	ND	0.400
Trichloroethene	ND	0.400
Toluene	12.9	0.400
Tetrachloroethene	0.417	0.400
Chlorobenzene	ND	0.400
Total Xylenes	8.70	0.800
Benzyl Chloride	0.618	0.400
1,3-Dichlorobenzene	ND	0.400
1,4-Dichlorobenzene	0.611	0.400
1,2-Dichlorobenzene	ND	0.400

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ANALYTICAL REPORT

Sepich & Associates		Date Sampled:	04/20/95
3617 East Thousand Oaks Blvd., Suite 303		Date Received:	04/20/95
Westlake Village, CA 91362		Date Analyzed:	04/21-22/95
		Work Order No.:	95-04-457
Attn: Alex Feucht		Method:	EPA TO-14 (1150.1 Compounds)
RE: Penrose Landfill		Page 2 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: ISS 9		
Vinyl Chloride	ND	0.400
Acetonitrile	ND	2500
1,1-Dichloroethene	ND	0.400
Methylene Chloride	6.28	1.00
1,1-Dichloroethane	ND	0.400
Chloroform	ND	0.400
1,2-Dichloroethane	ND	0.400
1,1,1-Trichloroethane	0.412	0.400
Benzene	0.752	0.400
Carbon Tetrachloride	ND	0.400
Trichloroethene	ND	0.400
Toluene	3.69	0.400
Tetrachloroethene	ND	0.400
Chlorobenzene	ND	0.400
Total Xylenes	2.56	0.800
Benzyl Chloride	ND	0.400
1,3-Dichlorobenzene	ND	0.400
1,4-Dichlorobenzene	0.949	0.400
1,2-Dichlorobenzene	ND	0.400

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ANALYTICAL REPORT

Sepich & Associates	Date Sampled:	04/20/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	04/20/95
Westlake Village, CA 91362	Date Analyzed:	04/21/95
	Work Order No.:	95-04-457
Attn: Alex Feucht	Method:	EPA TO-14 (1150.1 Compounds)
RE: Penrose Landfill	Page 3 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Plant Inlet Sample		
Vinyl Chloride	443	100
Acetonitrile	ND	25000
1,1-Dichloroethene	914	100
Methylene Chloride	330	250
1,1-Dichloroethane	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	665	100
Benzene	1050	100
Carbon Tetrachloride	ND	100
Trichloroethene	ND	100
Toluene	12900	100
Tetrachloroethene	219	100
Chlorobenzene	1220	100
Total Xylenes	17600	200
Benzyl Chloride	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	524	100
1,2-Dichlorobenzene	121	100

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ANALYTICAL REPORT

Sepich & Associates	Date Sampled:	04/20/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	04/20/95
Westlake Village, CA 91362	Date Analyzed:	04/21/95
	Work Order No.:	95-04-457
Attn: Alex Feucht	Method:EPA TO-14 (1150.1 Compounds)	
RE: Penrose Landfill	Page 4 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Probe Q 10'		
Vinyl Chloride	ND	20.0
Acetonitrile	ND	5000
1,1-Dichloroethene	ND	20.0
Methylene Chloride	61.7	50.0
1,1-Dichloroethane	ND	20.0
Chloroform	ND	20.0
1,2-Dichloroethane	ND	20.0
1,1,1-Trichloroethane	ND	20.0
Benzene	ND	20.0
Carbon Tetrachloride	ND	20.0
Trichloroethene	ND	20.0
Toluene	298	20.0
Tetrachloroethene	ND	20.0
Chlorobenzene	ND	20.0
Total Xylenes	1730	40.0
Benzyl Chloride	ND	20.0
1,3-Dichlorobenzene	ND	20.0
1,4-Dichlorobenzene	ND	20.0
1,2-Dichlorobenzene	ND	20.0

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ANALYTICAL REPORT

Sepich & Associates	Date Sampled:	04/20/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	04/20/95
Westlake Village, CA 91362	Date Analyzed:	04/21-22/95
	Work Order No.:	95-04-457
Attn: Alex Feucht	Method:	EPA TO-14 (1150.1 Compounds)
RE: Penrose Landfill	Page 5 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Vinyl Chloride	ND	0.200
Acetonitrile	ND	50.0
1,1-Dichloroethene	ND	0.200
Methylene Chloride	0.512	0.500
1,1-Dichloroethane	ND	0.200
Chloroform	ND	0.200
1,2-Dichloroethane	ND	0.200
1,1,1-Trichloroethane	ND	0.200
Benzene	ND	0.200
Carbon Tetrachloride	ND	0.200
Trichloroethene	ND	0.200
Toluene	ND	0.200
Tetrachloroethene	ND	0.200
Chlorobenzene	ND	0.200
Total Xylenes	ND	0.400
Benzyl Chloride	ND	0.200
1,3-Dichlorobenzene	ND	0.200
1,4-Dichlorobenzene	ND	0.200
1,2-Dichlorobenzene	ND	0.200

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ANALYTICAL REPORT

Sepich & Associates		Date Sampled:	04/20/95
3617 East Thousand Oaks Blvd., Suite 303		Date Received:	04/20/95
Westlake Village, CA 91362		Date Analyzed:	04/21-22/95
		Work Order No.:	95-04-457
Attn: Alex Feucht		Method:	EPA TO-14 (1150.1 Compounds)
RE: Penrose Landfill		Page 6 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Vinyl Chloride	ND	0.200
Acetonitrile	ND	50.0
1,1-Dichloroethene	ND	0.200
Methylene Chloride	0.954	0.500
1,1-Dichloroethane	ND	0.200
Chloroform	ND	0.200
1,2-Dichloroethane	ND	0.200
1,1,1-Trichloroethane	ND	0.200
Benzene	ND	0.200
Carbon Tetrachloride	ND	0.200
Trichloroethene	ND	0.200
Toluene	ND	0.200
Tetrachloroethene	ND	0.200
Chlorobenzene	ND	0.200
Total Xylenes	ND	0.400
Benzyl Chloride	ND	0.200
1,3-Dichlorobenzene	ND	0.200
1,4-Dichlorobenzene	ND	0.200
1,2-Dichlorobenzene	ND	0.200

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates	Date Sampled:	04/20/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	04/20/95
Westlake Village, CA 91362	Date Analyzed:	04/21-22/95
	Work Order No.:	95-04-457
Attn: Alex Feucht	Method:	EPA TO-14 (1150.1 Compounds)
RE: Penrose Landfill	Page 7 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 95-04-467-1 (Duplicate)				
Vinyl Chloride	ND	ND	NA	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	114	113	1	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	44.3	40.3	9	0 - 30
1,1,1-Trichloroethane	ND	ND	NA	0 - 30
Benzene	397	396	0	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	ND	ND	NA	0 - 30
Toluene	2340	2320	1	0 - 30
Tetrachloroethene	ND	ND	NA	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30
Benzyl Chloride	244	308	23	0 - 30
Total Xylenes	2810	3370	18	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved _____ on 05/02/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates		Date Sampled:	04/20/95
3617 East Thousand Oaks Blvd., Suite 303		Date Received:	04/20/95
Westlake Village, CA 91362		Date Analyzed:	04/21/95
		Work Order No.:	95-04-457
Attn: Alex Feucht		Method:	SCAQMD 25.1
RE: Penrose Landfill		Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS10

Analyte	Concentration	Reportable Limit
Methane	1.1	1.0
TGNMO	ND	1.0

Sample Number: ISS9

Methane	ND	1.0
TGNMO	ND	1.0

Sample Number: Plant Inlet Sample

Oxygen	13000	1000
Nitrogen	164000	1000
Methane	452000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	362000	1000
TGNMO	476	1.0

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ANALYTICAL REPORT

Sepich & Associates 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	04/20/95 04/20/95 04/21/95
Attn: Alex Feucht RE: Penrose Landfill	Work Order No.: Method: Page 2 of 3	95-04-457 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Prob Q10'

Analyte	Concentration	Reportable Limit
Methane	9.46	1.0
TGNMO	14	1.0

Sample Number: Method Blank #1

Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000

Sample Number: Method Blank #2

Methane	ND	1.0
TGNMO	ND	1.0

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ANALYTICAL REPORT

Sepich & Associates 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	04/20/95 04/20/95 04/21/95
Attn: Alex Feucht RE: Penrose Landfill	Work Order No.: Method: Page 3 of 3	95-04-457 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Sample Number: Plant Inlet Sample (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen	13000	12000	8	0 - 25
Nitrogen	164000	161000	2	0 - 25
Methane	452000	455000	1	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	362000	364000	1	0 - 25
TGNMO	476	489	3	0 - 25

Reviewed and Approved _____ on 05/02/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

(457)

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JOB NAME

Instantaneous Surface Monitors

PENROSE LANDFILL — PERIMETER PROBE SAMPLES — PLANT INLET SAMPLE

FILE (JOB#): J152-6

DATE: 04/20/95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		Methane				Fixed Gas	REMARKS
10	04/20/95	9:14 AM	C	1	ISS 10	X	X		X					
9	4/20/95	9:38 AM	C	1	ISS 9	X	X		X					
TSI	04/20/95	10:42 AM	G	1	Plant Inlet SAMPLE	X	X						X	
Q 10'	04/20/95	11:17 AM	G	1	Probe Q 10'	X	X							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	04/20/95	11:35 AM.
RECEIVED BY:	[illegible]	LA BY-PRODUCTS	4/20/95	11:35AM
RELINQUISHED BY:	[illegible]	LA-BY-PRODUCTS	4/20/95	12:27 PM
RECEIVED BY:	[illegible]	CALSCIENCE	4/20/95	12:27 P.M.
RELINQUISHED BY:	[illegible]	CALSCIENCE	4/20/95	14:40
RECEIVED BY:	[illegible]	CEL	4/20/95	1440

002157

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J152-6

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates	Date Sampled:	05/09/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	05/09/95
Westlake Village, CA 91362	Date Analyzed:	05/11/95
	Work Order No.:	95-05-177
Attn: Alex Feucht	Method: EPA TO-14 (1150.1 Compounds)	
RE: Penrose Landfill/J152-6	Page 1 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: G		
Vinyl Chloride	ND	0.400
Acetonitrile	ND	1.00
1,1-Dichloroethene	ND	0.400
Methylene Chloride	ND	1.00
1,1-Dichloroethane	ND	0.400
Chloroform	ND	0.400
1,2-Dichloroethane	ND	0.400
1,1,1-Trichloroethane	3.06	0.400
Benzene	ND	0.400
Carbon Tetrachloride	ND	0.400
Trichloroethene	ND	0.400
Toluene	ND	0.400
Tetrachloroethene	0.514	0.400
Chlorobenzene	ND	0.400
Total Xylenes	ND	0.800
Benzyl Chloride	ND	0.400
1,3-Dichlorobenzene	ND	0.400
1,4-Dichlorobenzene	1.25	0.400
1,2-Dichlorobenzene	ND	0.400

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates	Date Sampled:	05/09/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	05/09/95
Westlake Village, CA 91362	Date Analyzed:	05/11/95
	Work Order No.:	95-05-177
Attn: Alex Feucht	Method: EPA TO-14 (1150.1 Compounds)	
RE: Penrose Landfill/J152-6	Page 2 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: V		
Vinyl Chloride	ND	0.400
Acetonitrile	ND	1.00
1,1-Dichloroethene	ND	0.400
Methylene Chloride	ND	1.00
1,1-Dichloroethane	ND	0.400
Chloroform	ND	0.400
1,2-Dichloroethane	0.408	0.400
1,1,1-Trichloroethane	1.94	0.400
Benzene	ND	0.400
Carbon Tetrachloride	ND	0.400
Trichloroethene	ND	0.400
Toluene	ND	0.400
Tetrachloroethene	ND	0.400
Chlorobenzene	ND	0.400
Total Xylenes	ND	0.800
Benzyl Chloride	ND	0.400
1,3-Dichlorobenzene	ND	0.400
1,4-Dichlorobenzene	1.46	0.400
1,2-Dichlorobenzene	ND	0.400

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	05/09/95 05/09/95 05/11/95
Attn: Alex Feucht RE: Penrose Landfill/J152-6	Work Order No.: Method: EPA TO-14 (1150.1 Compounds) Page 3 of 7	95-05-177

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Vinyl Chloride	531	100
Acetonitrile	1390	250
1,1-Dichloroethene	ND	100
Methylene Chloride	686	250
1,1-Dichloroethane	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	502	100
Benzene	1240	100
Carbon Tetrachloride	ND	100
Trichloroethene	ND	100
Toluene	10300	100
Tetrachloroethene	190	100
Chlorobenzene	876	100
Total Xylenes	12400	200
Benzyl Chloride	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	190	100
1,2-Dichlorobenzene	ND	100

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	05/09/95 05/09/95 05/11/95
Attn: Alex Feucht RE: Penrose Landfill/J152-6	Work Order No.: Method: EPA TO-14 (1150.1 Compounds) Page 4 of 7	95-05-177

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Q10'		
Vinyl Chloride	ND	2.00
Acetonitrile	ND	5.00
1,1-Dichloroethene	ND	2.00
Methylene Chloride	ND	5.00
1,1-Dichloroethane	ND	2.00
Chloroform	ND	2.00
1,2-Dichloroethane	ND	2.00
1,1,1-Trichloroethane	ND	2.00
Benzene	ND	2.00
Carbon Tetrachloride	ND	2.00
Trichloroethene	ND	2.00
Toluene	ND	2.00
Tetrachloroethene	ND	2.00
Chlorobenzene	ND	2.00
Total Xylenes	ND	4.00
Benzyl Chloride	ND	2.00
1,3-Dichlorobenzene	ND	2.00
1,4-Dichlorobenzene	ND	2.00
1,2-Dichlorobenzene	ND	2.00

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates	Date Sampled:	05/09/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	05/09/95
Westlake Village, CA 91362	Date Analyzed:	05/11/95
	Work Order No.:	95-05-177
Attn: Alex Feucht	Method: EPA TO-14 (1150.1 Compounds)	
RE: Penrose Landfill/J152-6	Page 5 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Vinyl Chloride	ND	0.200
Acetonitrile	2.80	0.500
1,1-Dichloroethene	ND	0.200
Methylene Chloride	0.651	0.500
1,1-Dichloroethane	ND	0.200
Chloroform	ND	0.200
1,2-Dichloroethane	ND	0.200
1,1,1-Trichloroethane	ND	0.200
Benzene	ND	0.200
Carbon Tetrachloride	ND	0.200
Trichloroethene	ND	0.200
Toluene	ND	0.200
Tetrachloroethene	ND	0.200
Chlorobenzene	ND	0.200
Total Xylenes	ND	0.400
Benzyl Chloride	ND	0.200
1,3-Dichlorobenzene	ND	0.200
1,4-Dichlorobenzene	ND	0.200
1,2-Dichlorobenzene	ND	0.200

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Attn: Alex Feucht RE: Penrose Landfill/J152-6	Work Order No.: Method: EPA TO-14 (1150.1 Compounds) Page 6 of 7	95-05-177

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 95-05-182-1 (Duplicate)				
Vinyl Chloride	ND	ND	NA	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	ND	ND	NA	0 - 30
1,1-Dichloroethane	1070	1130	5	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 - 30
1,1,1-Trichloroethane	ND	ND	NA	0 - 30
Benzene	27400	28200	3	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	ND	ND	NA	0 - 30
Toluene	106000	98900	7	0 - 30
Tetrachloroethene	ND	ND	NA	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates	Date Sampled:	05/09/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	05/09/95
Westlake Village, CA 91362	Date Analyzed:	05/11/95
	Work Order No.:	95-05-177
Attn: Alex Feucht	Method: EPA TO-14 (1150.1 Compounds)	
RE: Penrose Landfill/J152-6	Page 7 of 7	

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 95-05-182-1 (Duplicate) cont.				
Total Xylenes	101000	98400	3	0 - 30
Benzyl Chloride	5060	5200	3	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved _____ on 05/25/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

Sepich & Associates	Date Sampled:	05/09/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	05/09/95
Westlake Village, CA 91362	Date Analyzed:	05/10/95
	Work Order No.:	95-05-177
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: G

Analyte	Concentration	Reportable Limit
Methane	50	1.0
TGNMO	1.34	1.0

Sample Number: V

Methane	ND	1.0
TGNMO	ND	1.0

Sample Number: TSI

Oxygen	15600	1000
Nitrogen	169000	1000
Methane	447000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	357000	1000
TGNMO	456	1.0

Sample Number: Q10'

Methane	ND	1.0
TGNMO	ND	1.0

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	05/09/95 05/09/95 05/10/95
Attn: Alex Feucht RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 2 of 2	95-05-177 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
TGNMO	ND	1.0

QA/QC

Sample Number: V (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen	210000	210000	0	0 - 25
Nitrogen	781000	782000	1	0 - 25
Methane	ND	ND	NA	0 - 25
Carbon Dioxide	386	358	8	0 - 25
TGNMO	ND	ND	NA	0 - 25

Reviewed and Approved _____ on 05/25/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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FAX # 212 235-4110

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	05/09/95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT M'Allister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
G	05/09/95	9:11 AM			ISS G	✓	✓		✓					
V	05/09/95	9:44 AM			ISS V	✓	✓		✓					
TSI	05/09/95	10:01 AM			Plant Inlet	✓	✓						✓	
Q 10'	05/09 95	11:24 AM			Probe Q 10'	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert m'allister	LOS ANGELES BY PRODUCTS	05/09/95	11:50 AM
RECEIVED BY:	[illegible]	CALSCIENCE	05/09/95	11:50 AM
RELINQUISHED BY:	[illegible]	CALSCIENCE	5/9/95	13:45
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible] G. Moore	CEL	5/9/95	13:45

002167

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ANALYTICAL REPORT

L.A. By Products
c/o Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill

Date Sampled: 06/20/95
Date Received: 06/20/95
Date Analyzed: 06/22/95

Work Order No.: 95-06-379
Method: EPA TO-14 (Target Compounds)

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: ISS 7		
Vinyl Chloride	ND	5
Acetonitrile	18.6	5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	0.89	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	0.22	0.2
1,1,1-Trichloroethane	1.87	0.2
Benzene	1.91	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	0.3	0.2
Toluene	8.5	0.2
Tetrachloroethene	0.25	0.2
Chlorobenzene	ND	0.2
Total Xylenes	12.6	0.4
Benzyl Chloride	ND	1
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	4	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

L.A. By Products
c/o Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill

Date Sampled: 06/20/95
Date Received: 06/20/95
Date Analyzed: 06/22/95

Work Order No.: 95-06-379
Method: EPA TO-14 (Target Compounds)

All concentrations are reported in ppb (v/v).

Sample Number: ISS 39

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	5
Acetonitrile	18.5	5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	2.52	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	3.78	0.2
Benzene	3.72	0.2
Carbon Tetrachloride	0.27	0.2
Trichloroethene	0.23	0.2
Toluene	8.72	0.2
Tetrachloroethene	0.29	0.2
Chlorobenzene	ND	0.2
Total Xylenes	17.5	0.4
Benzyl Chloride	ND	1
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	4.3	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

L.A. By Products
c/o Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill

Date Sampled: 06/20/95
Date Received: 06/20/95
Date Analyzed: 06/22/95

Work Order No.: 95-06-379
Method:EPA TO-14 (Target Compounds)

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Probe P 40'		
Vinyl Chloride	ND	5
Acetonitrile	22.6	5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	1.31	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	47.2	0.2
1,2-Dichloroethane	0.48	0.2
1,1,1-Trichloroethane	3.68	0.2
Benzene	0.85	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	0.88	0.2
Toluene	12.2	0.2
Tetrachloroethene	14.8	0.2
Chlorobenzene	0.6	0.2
Total Xylenes	32.8	0.4
Benzyl Chloride	ND	1
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	3.1	0.2
1,2-Dichlorobenzene	ND	0.2

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c/o Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill

Date Sampled: 06/20/95
Date Received: 06/20/95
Date Analyzed: 06/22/95

Work Order No.: 95-06-379
Method:EPA TO-14 (Target Compounds)

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Vinyl Chloride	8620	800
Acetonitrile	14200	800
1,1-Dichloroethene	971	32
Methylene Chloride	256	32
1,1-Dichloroethane	49.6	32
Chloroform	ND	32
1,2-Dichloroethane	41.6	32
1,1,1-Trichloroethane	373	32
Benzene	1490	32
Carbon Tetrachloride	ND	32
Trichloroethene	397	32
Toluene	14300	32
Tetrachloroethene	144	32
Chlorobenzene	1130	32
Total Xylenes	27500	64
Benzyl Chloride	ND	160
1,3-Dichlorobenzene	ND	32
1,4-Dichlorobenzene	208	32
1,2-Dichlorobenzene	49.6	32

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L.A. By Products
c/o Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill

Date Sampled: 06/20/95
Date Received: 06/20/95
Date Analyzed: 06/22/95

Work Order No.: 95-06-379
Method:EPA TO-14 (Target Compounds)

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Vinyl Chloride	ND	5
Acetonitrile	ND	5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	ND	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	ND	0.2
Toluene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	ND	0.4
Benzyl Chloride	ND	1
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill

Date Sampled: 06/20/95
Date Received: 06/20/95
Date Analyzed: 06/22/95

Work Order No.: 95-06-379
Method: EPA TO-14 (Target Compounds)
Page 6 of 7

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 95-06-388-1 (Duplicate)				
Vinyl Chloride	ND	ND	NA	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	2180	2090	4	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	160	157	2	0 - 30
1,1,1-Trichloroethane	67.2	64	5	0 - 30
Benzene	3030	2830	7	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	ND	ND	NA	0 - 30
Toluene	2580	2430	6	0 - 30

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ANALYTICAL REPORT

L.A. By Products
c/o Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill

Date Sampled: 06/20/95
Date Received: 06/20/95
Date Analyzed: 06/22/95

Work Order No.: 95-06-379
Method: EPA TO-14 (Target Compounds)

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 95-06-388-1 (Duplicate)				
Tetrachloroethene	ND	ND	NA	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30
Total Xylenes	7550	5660	29	0 - 30
Benzyl Chloride	ND	ND	NA	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved William H. Christensen on 07/05/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products
c/o Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill

Date Sampled: 06/20/95
Date Received: 06/20/95
Date Analyzed: 06/22/95

Work Order No.: 95-06-379
Method: SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS 7

Analyte	Concentration	Reportable Limit
Methane	1.51	1.0
TGNMO	11.3	1.0

Sample Number: ISS 39

Methane	ND	1.0
TGNMO	7.73	1.0

Sample Number: Probe P 40'

Methane	ND	1.0
TGNMO	12.7	1.0

Sample Number: TSI

Oxygen	14700	1000
Nitrogen	169000	1000
Methane	435000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	372000	1000
TGNMO	481	1.0

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Calscience Environmental Laboratories, Inc.

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ANALYTICAL REPORT

L.A. By Products c/o Sepich & Associates, Inc. 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	06/20/95 06/20/95 06/22/95
Attn: Alex Feucht RE: Penrose Landfill	Work Order No.: Method: Page 2 of 3	95-06-379 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank #1

Analyte	Concentration	Reportable Limit
Methane	ND	1.0
TGNMO	ND	1.0

Sample Number: Method Blank #2

Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
TGNMO	ND	1.0

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ANALYTICAL REPORT

L.A. By Products
c/o Sepich & Associates, Inc.
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Attn: Alex Feucht
RE: Penrose Landfill

Date Sampled: 06/20/95
Date Received: 06/20/95
Date Analyzed: 06/22/95

Work Order No.: 95-06-379
Method: SCAQMD 25.1
Page 3 of 3

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: TSI (Duplicate)				
Oxygen	14700	15400	5	0 - 25
Nitrogen	169000	171000	1	0 - 25
Methane	435000	433000	1	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	372000	369000	1	0 - 25
TGNMO	481	509	6	0 - 25

Reviewed and Approved _____ on 06/26/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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(379)

Instantaneous Surface Samples

JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — PERIMETER PROBE SAMPLES, PLANT INLET SAMPLE	J152-6	06-20-95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert M McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
J152-6	6-20-95	9:45 Am	C	1	ISS 7	✓	✓		✓					
J152-6	6-20-95	10:08 AM	C	1	ISS 39	✓	✓		✓					
J152-6	6-20-95	10:40 Am	G	1	Probe P 40'	✓	✓							
J152-6	6-20-95	11:20 Am	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert M McAllister	LOS ANGELES B&F PRODUCTS	6-20-95	11:35 Am
RECEIVED BY:	[illegible]	LA B&I PRODUCTS	6-20-95	11:35 AM
RELINQUISHED BY:	[illegible]	LA B&I PRODUCTS	6-20-95	12:06 PM
RECEIVED BY:	[illegible]	[illegible]	[illegible]	1:06 PM
RELINQUISHED BY:	[illegible]	CONSCHEM CA	6-20-95	1427
RECEIVED BY:	[illegible]	CKL	6/20/95	1427

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EXHIBIT E

Annual Source Test Data

Second Quarter, 1995

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 211-4170

PENROSE LANDFILL

Date 05/09/95

Job # J152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME		
INSTRUMENT		
PARAMETER		
PROBE #		
1	H_2S	OVA
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
ISS G	ND	ND
ISS V	ND	ND

REMARKS:
ISS G 9:41 AM
ISS V 9:44 AM
TSI 10:01 AM
Q 10' 11:24 AM

PROBE #			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #		H_2S	TOC
Q	10'	ND	ND
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	120 ppm	46%

002190

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates	Date Sampled:	05/09/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	05/09/95
Westlake Village, CA 91362	Date Analyzed:	05/10/95
	Work Order No.:	95-05-177
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: G

Analyte	Concentration	Reportable Limit
Methane	50	1.0
TGNMO	1.34	1.0

Sample Number: V

Methane	ND	1.0
TGNMO	ND	1.0

Sample Number: TSI

Oxygen	15600	1000
Nitrogen	169000	1000
Methane	447000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	357000	1000
TGNMO	456	1.0

Sample Number: Q10'

Methane	ND	1.0
TGNMO	ND	1.0

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates	Date Sampled:	05/09/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	05/09/95
Westlake Village, CA 91362	Date Analyzed:	05/11/95
	Work Order No.:	95-05-177
Attn: Alex Feucht	Method: EPA TO-14 (1150.1 Compounds)	
RE: Penrose Landfill/J152-6	Page 3 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Vinyl Chloride	531	100
Acetonitrile	1390	250
1,1-Dichloroethene	ND	100
Methylene Chloride	686	250
1,1-Dichloroethane	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	502	100
Benzene	1240	100
Carbon Tetrachloride	ND	100
Trichloroethene	ND	100
Toluene	10300	100
Tetrachloroethene	190	100
Chlorobenzene	876	100
Total Xylenes	12400	200
Benzyl Chloride	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	190	100
1,2-Dichlorobenzene	ND	100

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FAX # 212 355-4110

1770

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	05/09/95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC		CH_4				Fixed Gas	REMARKS
G	05/09/95	9:11 AM			ISS G	✓	✓		✓					
V	05/09/95	9:44 AM			ISS V	✓	✓		✓					
TSI	05/09/95	10:01 AM			Plant Inlet	✓	✓						✓	
Q 10'	05/09/95	11:24 AM			Probe Q 10'	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	05/09/95	11:50 AM
RECEIVED BY:	[illegible]	CALSCIENCE	05/09/95	11:50 AM
RELINQUISHED BY:	[illegible]	CALSCIENCE	5/9/95	13:45
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	CEL	5/9/95	13:45

002183

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CONTRACT SOURCE TESTING STIMS DATA ENTRY FORM

SOURCE TEST NO. 94-CST028-C | APPL. NO. 291391 | PERMIT NO. D86198

AETS I.D. 043536 | COMPANY NAME Pacific Energy - Penrose Landfill

NOTE: SHADED REGIONS ARE DISPLAYED AUTOMATICALLY BY STIMS

ADDRESS 8301 Tujunga Avenue

CITY Sun Valley | ZIP 91352

COMPANY CONTACT Dean Prochison | PHONE (213)725-1139

RULE 217 STATUS No problems

BEC | UNIT | CEC (1) | CEC (2)

CONTRACTING FIRM Horizon | CONTACT/PHONE Ryan Yanagihara (805)498-8781

TEST DATE 5/9/95 | ZONE 6 | ANNOUNCED? (Y OR N) Y

SAMPLES TAKEN

PM	CO	SO_x	NO_x	H_2S	OTHER
	X		X	X	

CONTRACTOR RPT. ISSUE DATE 5-26-95 | T/A DAYS 17 | TEST RESULT (P OR F) F

DISTRICT RPT. ISSUE DATE 6-5-95 | T/A DAYS 10 | F

PREV. TEST # New equip. | PREV. TEST DATE N/A | PREV. TEST STATUS (P OR F) N/A

CONTRACTOR INVOICE NO. 11127 | INV. DATE 5-23-95 | CONTRACTOR FEE $1655.00

DISTRICT FEE N/A | VIOLATION NO. N/A * | DATE VIOLATION SERVED N/A *

SOURCE TEST REQUEST NO. N/A * | SOURCE TEST RETEST NO. N/A *

	RULE NO.	EMISSIONS MEASURED	EMISSIONS ALLOWED	COMMENT
1	1110.1	29.6 ppm @ 15% O_2	150 ppm @ 15% O_2	Oxides of Nitrogen
2	431.1	70.0 ppm	40 ppm	Hydrogen Sulfide in Fuel
3	407(a)(1)	311 ppmv	2000 ppm	Carbon Monoxide
4				

* The facility is operating under a Rule 431.1 variance.

TABLE 1

SUMMARY

SOURCE TESTED:	Pacific Energy - Penrose Landfill
TEST LOCATION:	8301 Tujunga Avenue Sun Valley, California 91352
UNIT TESTED:	Engine #2
TEST REQUESTED BY:	South Coast Air Quality Management District
TEST OBJECTIVE(S):	Compliance with Rule 1110.1 for Nitrogen Oxides, Rule 407(a)(1) for Carbon Monoxide, Rule 431.1 for Hydrogen Sulfide Content in Fuel Gas.
TEST DATE:	May 9, 1995
TEST PERFORMED BY:	Horizon Air Measurement Services, Inc.
TEST PERSONNEL:	Ryan Yanagihara and Ferodie Jesus O. Torres
TEST METHODOLOGY:	SCAQMD Method 100.1 for Gaseous Emissions. SCAQMD Method 307.91 (equivalent) for Hydrogen Sulfide Content in Fuel Gas
TEST OBSERVED BY:	None
PLANT CONTACT:	Mr. Dean Prochison
SOURCE ID NUMBER:	043536
SCAQMD APPLICATION NUMBER:	291391
SCAQMD PERMIT NUMBER:	D86198

TABLE 2

PACIFIC ENERGY (ENGINE #2) - RESULTS

TEST CONDITIONS

	ICE # 2
Stack Gas Flow Rate, dscfm	6388
Rated KW	1875
KW During Test	1875
Type of Fuel	Landfill Gas

SOURCE TEST RESULTS

Contaminant	Units	Emissions Measured	Emissions Allowed	SCAQMD Applicable Rule
Oxides of Nitrogen	ppm ppm @ 15% O_2 lb/hr	65.2 29.6 3.03	150	1110.1
Carbon Monoxide	ppm ppm @ 15% O_2 lb/hr	311 141 8.79	2000	407(a)(1)
Hydrogen Sulfide in Fuel	ppm	70.0	40	431.1

Facility: PACIFIC ENERGY
Source: ICE #2
Job No.: S20-028
Test Date: 5-9-95
TEST PROGRAM PARTICIPANTS: RY, JT

SCAQMD Method 100.1 Emission Rates

RUN NUMBER	******	1
DATE OF RUN	******	5/9/95
LOAD CONDITION	******	MAX

OXIDES OF NITROGEN

POLLUTANT CONCENTRATION	ppm	65.2
CONCENTRATION @ 15 %O2	ppm	29.6
POLLUTANT CONCENTRATION	lb/dscf	7.90E-06
STACK FLOWRATE	dscfm	6388
OXYGEN CONTENT	percent	7.9
EPA F-FACTOR	scf/MMBtu	
EMISSION RATE	lb/MMBtu	0.0000
EMISSION RATE	lb/hr	3.029

CARBON MONOXIDE

POLLUTANT CONCENTRATION	ppm	310.8
CONCENTRATION @ 3 %O2	ppm	141.1
POLLUTANT CONCENTRATION	lb/dscf	2.29E-05
STACK FLOWRATE	dscfm	6388
OXYGEN CONTENT	percent	7.9
EPA F-FACTOR	scf/MMBtu	
EMISSION RATE	lb/MMBtu	0.0000
EMISSION RATE	lb/hr	8.788

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Facility: PACIFIC ENERGY
Source: ICE #2
Job No.: S20-028
Test Date: 5-9-95

SCAQMD Methods 1-4 Flowrate Determination

	STD TEMP:	60
		RUN
RUN NUMBER	******	1
DATE OF RUN	******	05/09/95
CLOCK TIME: INITIAL	******	1227
CLOCK TIME: FINAL	******	1257
AVG. STACK TEMPERATURE	Degrees F	888
AVG. SQUARE DELTA P	Inches H20	2.0916
NOZZLE DIAMETER	Inches	
BAROMETRIC PRESSURE	Inches HG	29.27
SAMPLING TIME	Minutes	30
SAMPLE VOLUME	Cubic Feet	22.192
AVG. METER TEMP.	Degrees F	85
AVG. DELTA H	Inches H20	1.79
DGM CALIB. FACTOR [Y]	******	1.0246
WATER COLLECTED	Milliliters	62
CO 2	Percent	12.0
O 2	Percent	7.9
CO	Percent	
CH4	Percent	
N 2	Percent	80.2
STACK AREA	Square Inches	240.5
STATIC PRESSURE	Inches WG	8.20
PITOT COEFFICIENT	******	0.84
SAMPLE VOLUME DRY	DSCF	21.32
WATER AT STD.	SCF	2.9
MOISTURE	Percent	12.1
MOLE FRACTION DRY GAS	******	0.88
MOLECULAR WT.DRY	lb/lb Mole	30.23
EXCESS AIR	Percent	60
MOLECULAR WT. WET	lb/lb Mole	28.75
STACK GAS PRESSURE	Inches HG	29.87
STACK VELOCITY	AFPM	11291
VOLUMETRIC FLOWRATE, DRY STD.	DSCFM	6388
VOLUMETRIC FLOWRATE, ACTUAL	ACFM	18860

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide & Reduced Sulfur Compounds Analysis in Tedlar Bag Sample

Report Date: May 10, 1995
Client: Horizon / SCAQMD
P. O. No.: Verbal
Client Project No.: S20-028
Source Location : Pacific Energy / Penrose
Source ID: Not Given

Date Received: May 9, 1995
Date Analyzed: May 9, 1995

ANALYSIS DESCRIPTION

Hydrogen sulfide was analyzed by gas chromatography with a Hall electroylic conductivity detector operated in the oxidative sulfur mode. All other components were measured by GC/Mass Spec.

AtmAA Lab No.:	91295-1	
Sample I.D.:	S2028	
	H2S	
Components	(ppmv)	
		(Repeat)
Hydrogen sulfide	63.4	64.1
Carbonyl sulfide	0.066	
Methyl mercaptan	1.05	
Ethyl mercaptan	0.17	
Dimethyl sulfide	4.61	
Carbon disulfide	0.047	
isoproyl mercaptan	0.10	
n-propyl mercaptan	0.13	
Dimethyl disulfide	0.022	
TRS	70.0	

iso-propyl and n-propyl-mercaptans are calculated based on ethyl mercaptan standard.
TRS - total reduced sulfur

Michael L. Porter
Laboratory Director

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SHARP	PACIFIC ENERGY / PENROSE
Project No.	**Field Logbook No.**
520-028	
Sampler: (Signature)	**Chain of Custody Tape No.**
[signature]	

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	H2S 307-91 EQUIVALENT						REMARKS
52028-H2S	5/9/95		9129MJ-1	TEDLAR BAG	X						LANDFILL GAS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	5/9/95				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received for Laboratory: (Signature)	Date	Time
			[signature]	5/9/95	7:15
Sample Disposal Method:	Disposed of by: (Signature)			Date	Time

SAMPLE COLLECTOR

HORIZON AIR MEASUREMENT SERVICES
996 Lawrence Drive, Suite 108
Newbury Park, CA 91320 (805) 498-8781

ANALYTICAL LABORATORY

ATMAA

Nº 2467

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CONTRACT SOURCE TESTING STIMS DATA ENTRY FORM

SOURCE TEST NO. 94-CST028-B | APPL. NO. 291393 | PERMIT NO. D86200

AETS I.D. 043536 | COMPANY NAME Pacific Energy - Penrose Landfill

NOTE: SHADED REGIONS ARE DISPLAYED AUTOMATICALLY BY STIMS

ADDRESS 8301 Tujunga Avenue

CITY Sun Valley | ZIP 91352

COMPANY CONTACT Dean Prochison | PHONE (213)725-1139

RULE 217 STATUS No problems

BEC | UNIT | CEC (1) | CEC (2)

CONTRACTING FIRM Horizon | CONTACT/PHONE Ryan Yanagihara (805)498-8781

TEST DATE 5/9/95 | ZONE 6 | ANNOUNCED? (Y OR N) Y

SAMPLES TAKEN

PM	CO	SO_x	NO_x	H_2S	OTHER
	X		X	X	

CONTRACTOR RPT. ISSUE DATE 5-26-95 | T/A DAYS 17

DISTRICT RPT. ISSUE DATE 6-5-95 | T/A DAYS 10

TEST RESULT (P OR F) F

PREV. TEST # New equip | PREV. TEST DATE N/A | PREV. TEST STATUS (P OR F) N/A

CONTRACTOR INVOICE NO. 11124 | INV. DATE 5-23-95 | CONTRACTOR FEE $1655.00

DISTRICT FEE N/A | VIOLATION NO. N/A * | DATE VIOLATION SERVED N/A *

SOURCE TEST REQUEST NO. N/A * | SOURCE TEST RETEST NO. N/A *

	RULE NO.	EMISSIONS MEASURED	EMISSIONS ALLOWED	COMMENT
1	1110.1	53.1 ppm @ 15% O_2	150 ppm @ 15% O_2	Oxides of Nitrogen
2	431.1	70.0 ppm	40 ppm	Hydrogen Sulfide in Fuel
3	407(a)(1)	368.8 ppm	2000 ppm	Carbon Monoxide
4				

* The facility is operating under Rule 431.1 variance

TABLE 1

SUMMARY

SOURCE TESTED:	Pacific Energy - Penrose Landfill
TEST LOCATION:	8301 Tujunga Avenue Sun Valley, California 91352
UNIT TESTED:	Engine #4
TEST REQUESTED BY:	South Coast Air Quality Management District
TEST OBJECTIVE(S):	Compliance with Rule 1110.1 for Nitrogen Oxides, Rule 407(a)(1) for Carbon Monoxide, Rule 431.1 for Hydrogen Sulfide Content in Fuel Gas.
TEST DATE:	May 9, 1995
TEST PERFORMED BY:	Horizon Air Measurement Services, Inc.
TEST PERSONNEL:	Ryan Yanagihara and Ferodie Jesus O. Torres
TEST METHODOLOGY:	SCAQMD Method 100.1 for Gaseous Emissions. SCAQMD Method 307.91 (equivalent) for Hydrogen Sulfide Content in Fuel Gas
TEST OBSERVED BY:	None
PLANT CONTACT:	Mr. Dean Prochison
SOURCE ID NUMBER:	043536
SCAQMD APPLICATION NUMBER:	291393
SCAQMD PERMIT NUMBER:	D86200

TABLE 2

PACIFIC ENERGY (ENGINE #4) - RESULTS

TEST CONDITIONS

	ICE # 4
Stack Gas Flow Rate, dscfm	6210
Rated KW	1875
KW During Test	1875
Type of Fuel	Landfill Gas

SOURCE TEST RESULTS

Contaminant	Units	Emissions Measured	Emissions Allowed	SCAQMD Applicable Rule
Oxides of Nitrogen	ppm ppm @ 15% O_2 lb/hr	119 53.1 5.37	150	1110.1
Carbon Monoxide	ppm ppm @ 15% O_2 lb/hr	369 165 10.14	2000	407(a)(1)
Hydrogen Sulfide in Fuel	ppm	70.0	40	431.1

Facility: PACIFIC ENERGY
Source: ICE #4
Job No.: S20-028
Test Date: 5-9-95
TEST PROGRAM PARTICIPANTS: RY, JT

SCAQMD Method 100.1 Emission Rates

RUN NUMBER	******	1
DATE OF RUN	******	5/9/95
LOAD CONDITION	******	MAX

OXIDES OF NITROGEN

POLLUTANT CONCENTRATION	ppm	118.9
CONCENTRATION @ 15 %O2	ppm	53.1
POLLUTANT CONCENTRATION	lb/dscf	1.44E-05
STACK FLOWRATE	dscfm	6210
OXYGEN CONTENT	percent	7.7
EPA F-FACTOR	scf/MMBtu	
EMISSION RATE	lb/MMBtu	0.0000
EMISSION RATE	lb/hr	5.368

CARBON MONOXIDE

POLLUTANT CONCENTRATION	ppm	368.8
CONCENTRATION @ 3 %O2	ppm	164.7
POLLUTANT CONCENTRATION	lb/dscf	2.72E-05
STACK FLOWRATE	dscfm	6210
OXYGEN CONTENT	percent	7.7
EPA F-FACTOR	scf/MMBtu	
EMISSION RATE	lb/MMBtu	0.0000
EMISSION RATE	lb/hr	10.138

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Facility: PACIFIC ENERGY
Source: ICE #4
Job No.: S20-028
Test Date: 5-9-95

SCAQMD Methods 1-4 Flowrate Determination

	STD TEMP:	60
		RUN
RUN NUMBER	******	1
DATE OF RUN	******	05/09/95
CLOCK TIME: INITIAL	******	1109
CLOCK TIME: FINAL	******	1209
AVG. STACK TEMPERATURE	Degrees F	879
AVG. SQUARE DELTA P	Inches H20	2.0188
NOZZLE DIAMETER	Inches	
BAROMETRIC PRESSURE	Inches HG	29.27
SAMPLING TIME	Minutes	30
SAMPLE VOLUME	Cubic Feet	20.773
AVG. METER TEMP.	Degrees F	83
AVG. DELTA H	Inches H20	1.79
DGM CALIB. FACTOR [Y]	******	1.0246
WATER COLLECTED	Milliliters	57
CO 2	Percent	11.6
O 2	Percent	7.7
CO	Percent	
CH4	Percent	
N 2	Percent	80.7
STACK AREA	Square Inches	240.5
STATIC PRESSURE	Inches WG	8.80
PITOT COEFFICIENT	******	0.84
SAMPLE VOLUME DRY	DSCF	20.03
WATER AT STD.	SCF	2.7
MOISTURE	Percent	11.8
MOLE FRACTION DRY GAS	******	0.88
MOLECULAR WT.DRY	lb/lb Mole	30.16
EXCESS AIR	Percent	57
MOLECULAR WT. WET	lb/lb Mole	28.72
STACK GAS PRESSURE	Inches HG	29.92
STACK VELOCITY	AFPM	10859
VOLUMETRIC FLOWRATE, DRY STD.	DSCFM	6210
VOLUMETRIC FLOWRATE, ACTUAL	ACFM	18138

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laboratory services

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide & Reduced Sulfur Compounds Analysis in Tedlar Bag Sample

Report Date: May 10, 1995
Client: Horizon / SCAQMD
P. O. No.: Verbal
Client Project No.: S20-028
Source Location : Pacific Energy / Penrose
Source ID: Not Given

Date Received: May 9, 1995
Date Analyzed: May 9, 1995

ANALYSIS DESCRIPTION

Hydrogen sulfide was analyzed by gas chromatography with a Hall electroylic conductivity detector operated in the oxidative sulfur mode. All other components were measured by GC/Mass Spec.

AtmAA Lab No.:	91295-1	
Sample I.D.:	S2028	
	H2S	
Components	(ppmv)	(Repeat)
Hydrogen sulfide	63.4	64.1
Carbonyl sulfide	0.066	
Methyl mercaptan	1.05	
Ethyl mercaptan	0.17	
Dimethyl sulfide	4.61	
Carbon disulfide	0.047	
isoproyl mercaptan	0.10	
n-propyl mercaptan	0.13	
Dimethyl disulfide	0.022	
TRS	70.0	

iso-propyl and n-propyl-mercaptans are calculated based on ethyl mercaptan standard.
TRS - total reduced sulfur

Michael L. Porter
Laboratory Director

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCAQMD	PACIFIC ENERGY/PENROSE
Project No. 520-028	Field Logbook No.
Sampler: (Signature)	Chain of Custody Tape No.

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	H2S 307-91 EQUIVALENT						REMARKS
52028-HRS	5/9/95		91295-1	TEDLAR BAG	X						LANDFILL GAS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/9/95				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received for Laboratory: (Signature)	Date	Time
			Mark Mantorcus	5/9/95	7:15
Sample Disposal Method:	Disposed of by: (Signature)			Date	Time

SAMPLE COLLECTOR

HORIZON AIR MEASUREMENT SERVICES
996 Lawrence Drive, Suite 108
Newbury Park, CA 91320 (805) 498-8781

ANALYTICAL LABORATORY

ATMAA

Nº 2467

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CONTRACT SOURCE TESTING STIMS DATA ENTRY FORM

SOURCE TEST NO. 94-CST028-A | APPL. NO. 291396 | PERMIT NO. D86201

AETS I.D. 043536 | COMPANY NAME Pacific Energy - Penrose Landfill

NOTE: SHADED REGIONS ARE DISPLAYED AUTOMATICALLY BY STIMS

ADDRESS 8301 Tujunga Avenue

CITY Sun Valley | ZIP 91352

COMPANY CONTACT Dean Prochison | PHONE (213)725-1139

RULE 217 STATUS No problems

BEC | UNIT | CEC (1) | CEC (2)

CONTRACTING FIRM Horizon | CONTACT/PHONE Ryan Yanagihara (805)498-8781

TEST DATE 5/9/95 | ZONE 6 | ANNOUNCED? (Y OR N) Y

SAMPLES TAKEN

PM	CO	SO_x	NO_x	H_2S	OTHER
	X		X	X	

CONTRACTOR RPT. ISSUE DATE	5-26-95	T/A DAYS	17	TEST RESULT (P OR F)	F
DISTRICT RPT. ISSUE DATE	6-5-95	T/A DAYS	10		F

PREV. TEST # New equip. | PREV. TEST DATE N/A | PREV. TEST STATUS (P OR F) N/A

CONTRACTOR INVOICE NO. 11123 | INV. DATE 5-25-95 | CONTRACTOR FEE $2032.50

DISTRICT FEE N/A | VIOLATION NO. N/A * | DATE VIOLATION SERVED N/A *

SOURCE TEST REQUEST NO. N/A * | SOURCE TEST RETEST NO. N/A *

	RULE NO.	EMISSIONS MEASURED	EMISSIONS ALLOWED	COMMENT
1	1110.1	36.4 ppm @ 15% O_2	150 ppm @ 15% O_2	Oxides of Nitrogen
2	431.1	70.0 ppm	40 ppm	Hydrogen Sulfide in Fuel
3	407(a)(1)	275.0 ppmv	2000 ppm	Carbon Monoxide
4				

* Facility operating under Rule 431.1 variance.

TABLE 1

SUMMARY

SOURCE TESTED:	Pacific Energy - Penrose Landfill
TEST LOCATION:	8301 Tujunga Avenue Sun Valley, California 91352
UNIT TESTED:	Engine #5
TEST REQUESTED BY:	South Coast Air Quality Management District
TEST OBJECTIVE(S):	Compliance with Rule 1110.1 for Nitrogen Oxides, Rule 407(a)(1) for Carbon Monoxide, Rule 431.1 for Hydrogen Sulfide Content in Fuel Gas.
TEST DATE:	May 9, 1995
TEST PERFORMED BY:	Horizon Air Measurement Services, Inc.
TEST PERSONNEL:	Ryan Yanagihara and Ferodie Jesus O. Torres
TEST METHODOLOGY:	SCAQMD Method 100.1 for Gaseous Emissions. SCAQMD Method 307.91 (equivalent) for Hydrogen Sulfide Content in Fuel Gas
TEST OBSERVED BY:	None
PLANT CONTACT:	Mr. Dean Prochison
SOURCE ID NUMBER:	043536
SCAQMD APPLICATION NUMBER:	291396
SCAQMD PERMIT NUMBER:	D86201

TABLE 2

PACIFIC ENERGY (ENGINE #5) - RESULTS

TEST CONDITIONS

	ICE # 5
Stack Gas Flow Rate, dscfm	6282
Rated KW	1875
KW During Test	1875
Type of Fuel	Landfill Gas

SOURCE TEST RESULTS

Contaminant	Units	Emissions Measured	Emissions Allowed	SCAQMD Applicable Rule
Oxides of Nitrogen	ppm ppm @ 15% O_2 lb/hr	78.3 36.4 3.58	150	1110.1
Carbon Monoxide	ppm ppm @ 15% O_2 lb/hr	275 128 7.65	2000	407(a)(1)
Hydrogen Sulfide in Fuel	ppm	70.0	40	431.1

Facility: PACIFIC ENERGY SCAQMD Method 100.1 Emission Rates
Source: ICE #5
Job No.: S20-028
Test Date: 5-9-95
TEST PROGRAM PARTICIPANTS: RY, JT

RUN NUMBER	******	1
DATE OF RUN	******	5/9/95
LOAD CONDITION	******	MAX

OXIDES OF NITROGEN

POLLUTANT CONCENTRATION	ppm	78.3
CONCENTRATION @ 15 %O2	ppm	36.4
POLLUTANT CONCENTRATION	lb/dscf	9.49E-06
STACK FLOWRATE	dscfm	6282
OXYGEN CONTENT	percent	8.2
EPA F-FACTOR	scf/MMBtu	
EMISSION RATE	lb/MMBtu	0.0000
EMISSION RATE	lb/hr	3.575

CARBON MONOXIDE

POLLUTANT CONCENTRATION	ppm	275.0
CONCENTRATION @ 3 %O2	ppm	127.8
POLLUTANT CONCENTRATION	lb/dscf	2.03E-05
STACK FLOWRATE	dscfm	6282
OXYGEN CONTENT	percent	8.2
EPA F-FACTOR	scf/MMBtu	
EMISSION RATE	lb/MMBtu	0.0000
EMISSION RATE	lb/hr	7.647

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Facility: PACIFIC ENERGY
Source: ICE #5
Job No.: S20-028
Test Date: 5-9-95

SCAQMD Methods 1-4 Flowrate Determination

	STD TEMP:	60
		RUN
RUN NUMBER	******	1
DATE OF RUN	******	05/09/95
CLOCK TIME: INITIAL	******	945
CLOCK TIME: FINAL	******	1015
AVG. STACK TEMPERATURE	Degrees F	853
AVG. SQUARE DELTA P	Inches H20	2.0096
NOZZLE DIAMETER	Inches	
BAROMETRIC PRESSURE	Inches HG	29.27
SAMPLING TIME	Minutes	30
SAMPLE VOLUME	Cubic Feet	22.289
AVG. METER TEMP.	Degrees F	78
AVG. DELTA H	Inches H20	1.79
DGM CALIB. FACTOR [Y]	******	1.0246
WATER COLLECTED	Milliliters	59
CO 2	Percent	10.9
O 2	Percent	8.2
CO	Percent	
CH4	Percent	
N 2	Percent	80.9
STACK AREA	Square Inches	240.5
STATIC PRESSURE	Inches WG	9.20
PITOT COEFFICIENT	******	0.84
SAMPLE VOLUME DRY	DSCF	21.69
WATER AT STD.	SCF	2.8
MOISTURE	Percent	11.4
MOLE FRACTION DRY GAS	******	0.89
MOLECULAR WT.DRY	lb/lb Mole	30.07
EXCESS AIR	Percent	63
MOLECULAR WT. WET	lb/lb Mole	28.70
STACK GAS PRESSURE	Inches HG	29.95
STACK VELOCITY	AFPM	10704
VOLUMETRIC FLOWRATE, DRY STD.	DSCFM	6282
VOLUMETRIC FLOWRATE, ACTUAL	ACFM	17880

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AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250
environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide & Reduced Sulfur Compounds Analysis in Tedlar Bag Sample

Report Date: May 10, 1995
Client: Horizon / SCAQMD
P. O. No.: Verbal
Client Project No.: S20-028
Source Location : Pacific Energy / Penrose
Source ID: Not Given

Date Received: May 9, 1995
Date Analyzed: May 9, 1995

ANALYSIS DESCRIPTION

Hydrogen sulfide was analyzed by gas chromatography with a Hall electroylic conductivity detector operated in the oxidative sulfur mode. All other components were measured by GC/Mass Spec.

AtmAA Lab No.:	91295-1	
Sample I.D.:	S2028	
Components	H2S (ppmv)	(Repeat)
Hydrogen sulfide	63.4	64.1
Carbonyl sulfide	0.066	
Methyl mercaptan	1.05	
Ethyl mercaptan	0.17	
Dimethyl sulfide	4.61	
Carbon disulfide	0.047	
isoproyl mercaptan	0.10	
n-propyl mercaptan	0.13	
Dimethyl disulfide	0.022	
TRS	70.0	

iso-propyl and n-propyl-mercaptans are calculated based on ethyl mercaptan standard.
TRS - total reduced sulfur

Michael L. Porter
Laboratory Director

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCAQMD	PACIFIC ENERGY/PENROSE
Project No.	**Field Logbook No.**
520-028	
Sampler: (Signature)	**Chain of Custody Tape No.**
[signature]	

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	H2S 307-91 EQUIVALENT						REMARKS
52028-HRS	5/9/95		91295-1	TEDLAR BAG	X						LANDFILL GAS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	5/9/95				
Relinquished by: (Signature)	**Date**	**Time**	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory: (Signature)**	**Date**	**Time**
			[signature]	5/9/95	7:15
Sample Disposal Method:	**Disposed of by: (Signature)**			**Date**	**Time**

SAMPLE COLLECTOR	ANALYTICAL LABORATORY
HORIZON AIR MEASUREMENT SERVICES 996 Lawrence Drive, Suite 108 Newbury Park, CA 91320 (805) 498-8781	ATMAA

№ 2467

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Sepich Associates Inc.

METHANE SPECIALISTS

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(805) 373-8987

April 7, 1995

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for First Quarter, 1995
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the sixth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period January - March, 1995. Monitoring and sampling for this report was performed on January 6, and 20, February 1, 10, 15, 21, and 23, and March 10, 15, 20, and 24, 1995.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements pending results from initial monitoring. The Rule also requires plant inlet gas analyses on a quarterly basis and simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B, Table I for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection a of 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, January through March 1995, field monitoring was conducted on January 6, and 20, February 1, 10, 15, 21, and 23, and March 10, 15, 20, and 24. Perimeter probe and power plant inlet samples were collected for laboratory analysis on January 20, February 21, and March 20, 1995. Integrated surface samples were collected on January 20, February 21, and March 20, 1995.

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on January 6, January 20, February 10, February 23, March 10, and March 24, 1995 was conducted by Smith-Emery personnel using a Bacharach H Combustible Gas Detector. Probe sampling was conducted by Los Angeles By-Products personnel on January 20, February 21, and March 20, 1995.

Tedlar bag samples were collected using an indirect pump sampling procedure, where a pump vacates a chamber and a Tedlar bag within the chamber inflates in response to the vaccuum in the chamber. A valved flowmeter between the sampling probe end and Tedlar bag regulates the sampling rate (as required at approximately 400 cubic centimeter per minute for the integrated sampling).

The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Stanton, California, within 24 hours of sampling.

Perimeter probe sampling was conducted at Probe Q, in January, February, and March 1995. A map of probe locations can be found in Exhibit A and perimeter probe monitoring data sheets are included in Exhibit C.

B.2 Integrated Surface Sampling

Integrated surface sampling was conducted on January 20, February 21, and March 20, 1995, by focusing sampling efforts in zones where previously conducted instantaneous surface monitoring had found the highest TOC concentrations. During instantaneous surface monitoring, no areas had TOC greater than 500 ppmv in January and March. In January Areas # 25 and # 26 were sampled (see Integrated Surface Sampling Map in Exhibit A).

On February 1, 1995, two areas had high readings. One area of high readings, along the east perimeter of the property (Area # 6), and the other area (Area # 11), along the south perimeter of the property, were both related to settlement cracks along the perimeter of the landfill. The areas of high readings near the cracks were scraped and covered with clean soil before selective, close-grid instantaneous surface monitoring was again performed in the same areas on February 15, 1995. The integrated surface samples were collected on February 23, 1995, from Areas #6 and #1.

In March, because no anomalous readings were observed during the instantaneous surface monitoring, Area # 25, which had high laboratory results in January, and Area # 6, which had high TOC readings in February were sampled for integrated samples.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. Maps showing the areas of integrated surface sampling are included in Exhibit A.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring was conducted on January 20, February 1 and 15, and March 15, 1995. In January and March no areas had TOC greater than 500 ppmv. On February 1, 1995 two areas had high readings. Follow-up monitoring, after mitigation, on February 15, 1995, resulted in non-detect readings at both areas. Further details regarding instantaneous surface monitoring are discussed in Section B.2, above.

Instantaneous surface monitoring Path B was traversed in January and March and Path A was traversed on February 1, 1995. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling

10-liter bag samples were collected from the Pacific Energy electrical generation plant input pipeline on January 20, February 21, and March 20, 1995. Inlet gas was analyzed for hydrogen sulfide with a Dreage Tube and TOC was monitored with a recently calibrated GasTech Natural Gas Meter, Model NP-204, before the samples were collected.

B.5 Simultaneous Inlet/Exhaust Sampling

No simultaneous inlet/exhaust samples were collected. The gas collection system and the electrical power (disposal system) plant operated by Pacific Energy is operating under an SCAQMD permit to operate, an SCAQMD permit for the collection system, and a power plant permit. These permits are managed by the SCAQMD Landfill Group. SCAQMD files regarding those permits are hereby referred to for all information regarding plant inlet/exhaust sampling data.

B.6 Reporting Requirements

This is the sixth in a series of quarterly reports and the second annual report for Penrose Landfill. Los Angeles By-Products solicts any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring had been performed bi-monthly by Smith-Emery Company. After April 1994, their early (to mid-) month data was used to select the monthly probe sampling stations and their (mid to) late-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

January 6, 1995 monitoring results were highest from Probe Q (4% @ 10', 2% @ 40', and 4% @ 120'). Probe Q, 10-feet, was sampled on January 20, 1995. The laboratory result for methane analysis was 14.6% by volume.

Table I - January 1995
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON JANUARY 6, 1995

Probe Number	Screen Depth (feet)	Field Values 1/6/95 (% Vol)	Field Values 1/20/95 (% Vol)	Lab Results 1/20/95 (% Vol)	Follow-up Field Values 1/20/95 (% Vol)
Q	10	4	0.2	14.6	2
Q	40	2	NC	NC	2
Q	120	4	NC	NC	ND

Note: Laboratory samples were collected 1/20/95. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected.

ND None detected.

February 10, 1995 monitoring results were highest from Probes Q (4% @ 40' and 2% @ 160'). Probe Q, 40-feet, was sampled on February 21, 1995. Analytical results from the February 21, 1995 sample was less than 1% methane by volume.

Table II - February 1995
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON FEBRUARY 10, 1995

Probe Number	Screen Depth (feet)	Field Values 2/10/95 (% Vol)	Field Values 2/21/95 (% Vol)	Lab Results 2/21/95 (% Vol)	Follow-up Field Values 2/23/95 (% Vol)
Q	40	4	ND	0.00025	ND
Q	160	2	NC	NC	ND

Note: Laboratory samples were collected 2/21/95. Laboratory results are volume percent of methane. Field values are volume percent TOC.

The March 10, 1995 monitoring results were highest from Probes P and Q. Probe Q, at 40 and 80 feet, was sampled on March 20, 1995. Analytical results from the March 20, 1995 samples were less than 1% methane by volume.

Table III - March 1995
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON MARCH 24, 1995

Probe Number	Screen Depth (feet)	Field Values 3/10/95 (% Vol)	Field Values 3/20/95 (% Vol)	Lab Results 3/20/95 (% Vol)	Follow-up Field Values 3/24/95 (% Vol)
P	40	2	NC	NC	ND
Q	40	3	ND	0.00171	ND
Q	80	4	ND	0.000193	2
Q	160	2	NC	NC	3

Note: Laboratory samples were collected 3/20/95. Laboratory results are volume percent of methane. Field values are volume percent TOC.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and NMHC by SCAQMD Method 25.1 and for VOC by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FIRST QUARTER 1995
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA	CH_4 (PPMV)	TGNMO (PPMV)
1/20/95 AREA # 25	739	<1.0
1/28/95 AREA # 26	1.76	<1.0
2/20/95 AREA # 6	<1.0	3.26
2/21/95 AREA # 11	<1.0	3.5
3/20/95 AREA # 6	4.1	1.52
3/20/95 AREA # 25	2.58	1.57

Note: Laboratory samples were designated ISS # (Area number).

< Less than the detection limit given.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, only the February 10, 1995 instantaneous surface monitoring found OVA readings above 500 ppmv. Mitigation measures were implemented at Area # 6 and Area # 11, the areas were monitored after the mitigation, and integrated surface samples were collected (see Table IV). In January, instantaneous surface monitoring found no areas with OVA readings above 500 ppmv, however, the analytical result from integrated surface sample from Area # 25 was > 500 ppmv. Mitigation measures were implemented at Area # 25 and follow-up integrated surface samples were collected.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 41.7% methane on January 20, 42.1% methane on February 21, and 43.5% methane on March 20, 1995. Analytical results for fixed gases, NMHC, and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

The gas collection system and the electrical power (disposal system) plant operated by Pacific Energy is operating under an SCAQMD permit to operate, an SCAQMD permit for the collection system, and a power plant permit. These permits are managed by the SCAQMD Landfill Group. Information regarding analytical data is routinely submitted to SCAQMD by Pacific Energy. We hereby refer to SCAQMD files regarding that information.

C.6 Report Requirements

This report constitutes the 1995, First Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

As a first quarter report the required annual requirements 8.2 are included below.

A. Pacific Energy's power plant is the only facility operating on the property.

B. No wastes materials have been deposited in the landfill during this reporting period.

C. The total material deposited in Penrose Landfill to date is estimated at 14 million tons.

D. A contour map with the landfill boundary is included in Exhibit A. Trash extends throughout the site to within 10 feet of the property line, except along the south property line where trash is approximately 50 feet north of the property line and at the corners of the site where "rounding" resulted from accomodating excavation.

E. The collection system and the electrical power (disposal system) plant is operated by Pacific Energy. Their records of the amount of landfill gas collected during the years 1988 through 1994 and projections are included in Exhibit E (amounts are in BTU).

F. Maps of the collection system and disposal (electric power plant) system are included in E. The annual disposal rates during the years 1988 through 1994 are included in E above.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the current monitoring and laboratory results, mitigation measures are being implement as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

High methane readings in the probes prompted Los Angeles By-Products Company and Pacific Energy to institute a mitigation well program in the Spring of 1994. Adjusting flow rates at the wells to manipulate methane at the probes is an on-going process that has been successful in reducing methane concentrations at the probes. A year ago at least six of the perimeter probe stations regularily registered high TOC readings. This quarter only two perimeter probe stations (P and Q) had (substanially reduced) measurable TOC concentrations. Locations of the new wells are shown on the Gas Collection System Map in E.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
JUN. 30 1996
CIVIL
STATE OF CALIFORNIA

Sincerely,
Sepich Associates, Inc.

John Sepich, P.E.
President

J152rept.606/atf

Distribution: Los Angeles By-Products Company

- Mr. Mike McAllister

  City of Los Angeles, Environmental Affairs Department

- Ms. Tania Weaver

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location Map, Integrated Surface Sampling Map and Traverse Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - First Quarter, 1995
- EXHIBIT D: Laboratory Analytical Results - First Quarter, 1995
- EXHIBIT E: Documentation for Annual Requirements

EXHIBIT A

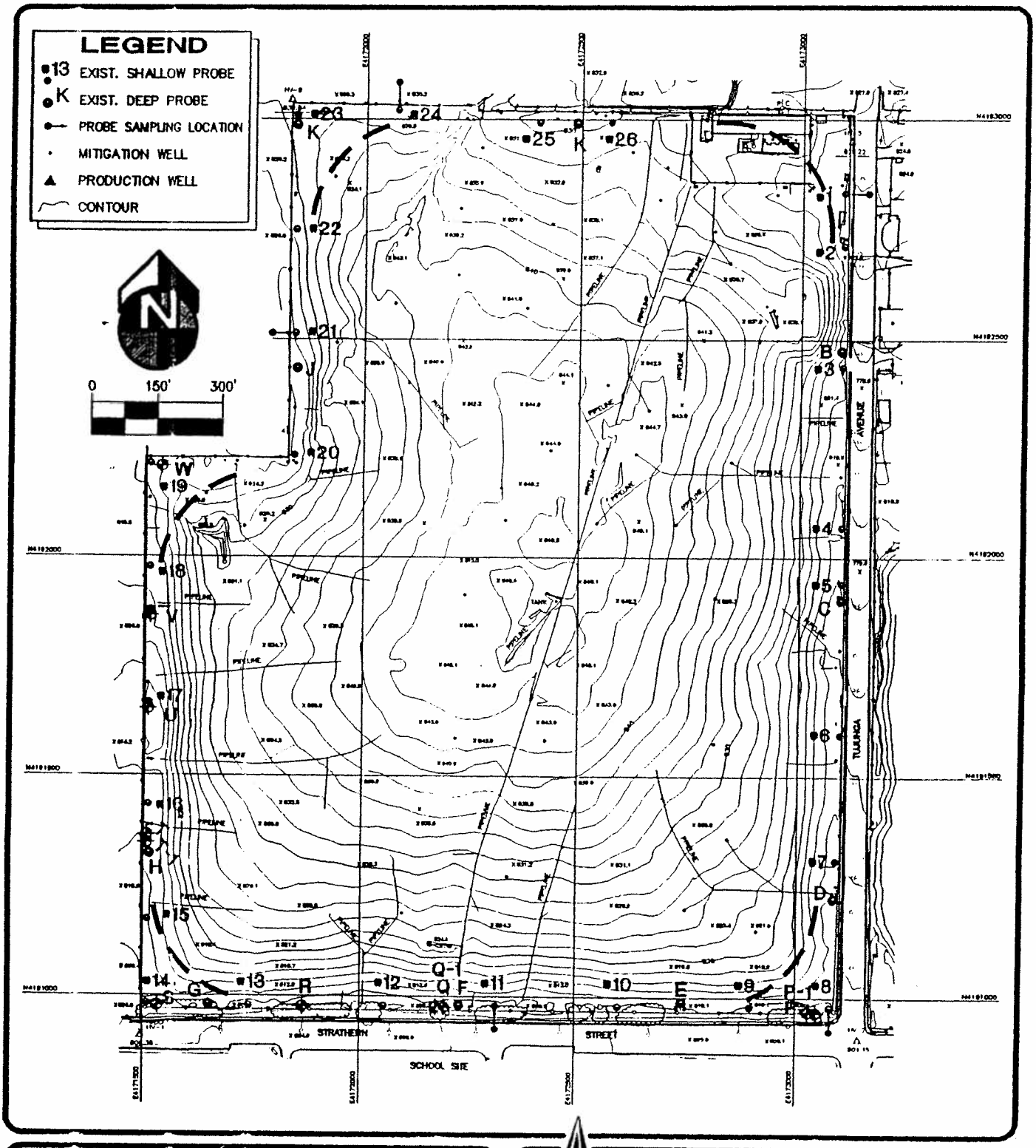
Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps

PENROSE LANDFILL
WELL AND PROBE LOCATIONS



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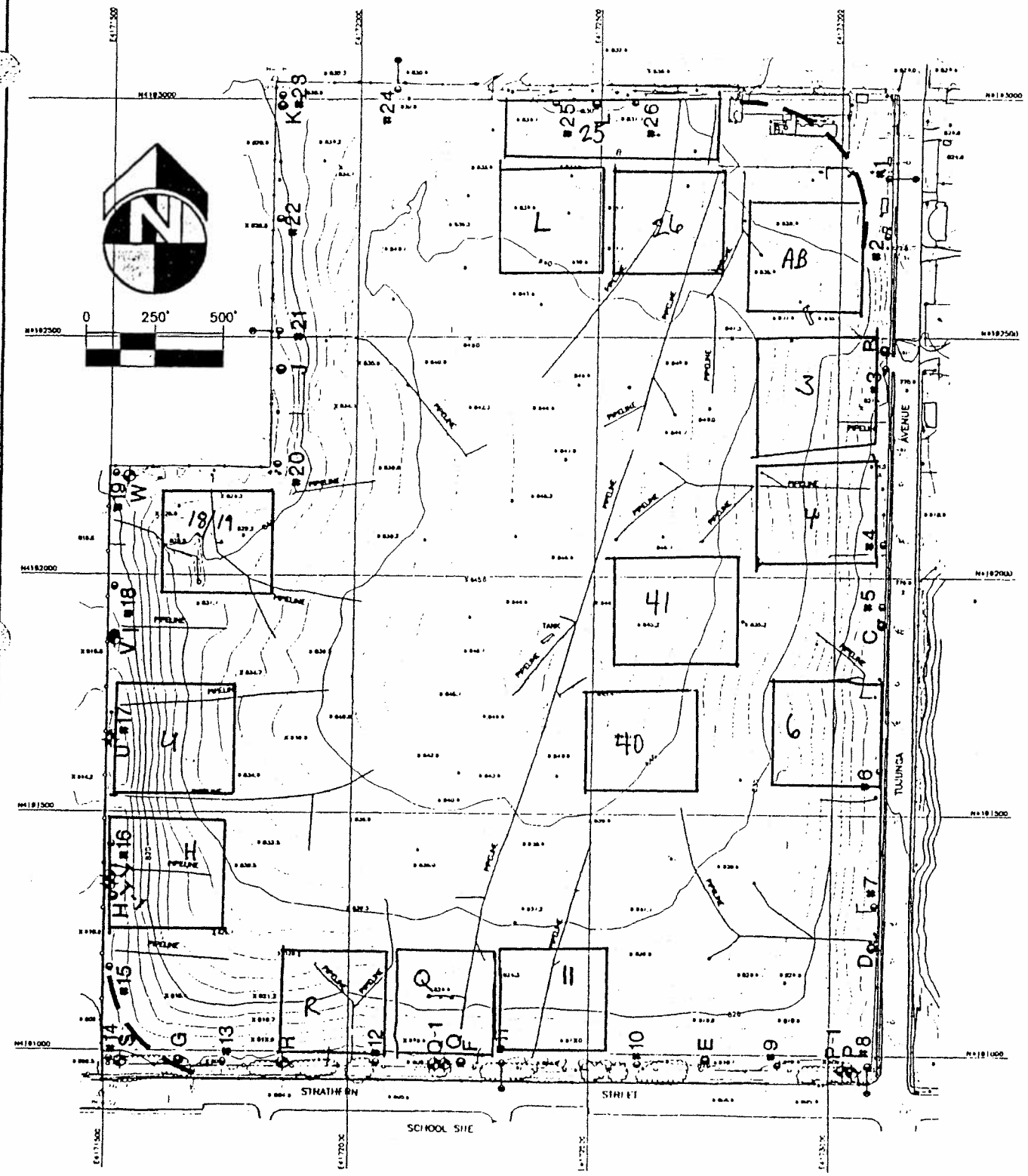

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ENVIRONMENTAL
WASTE AND
GAS CONTROL

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING

4th Quarter '94 & 1st Quarter '95

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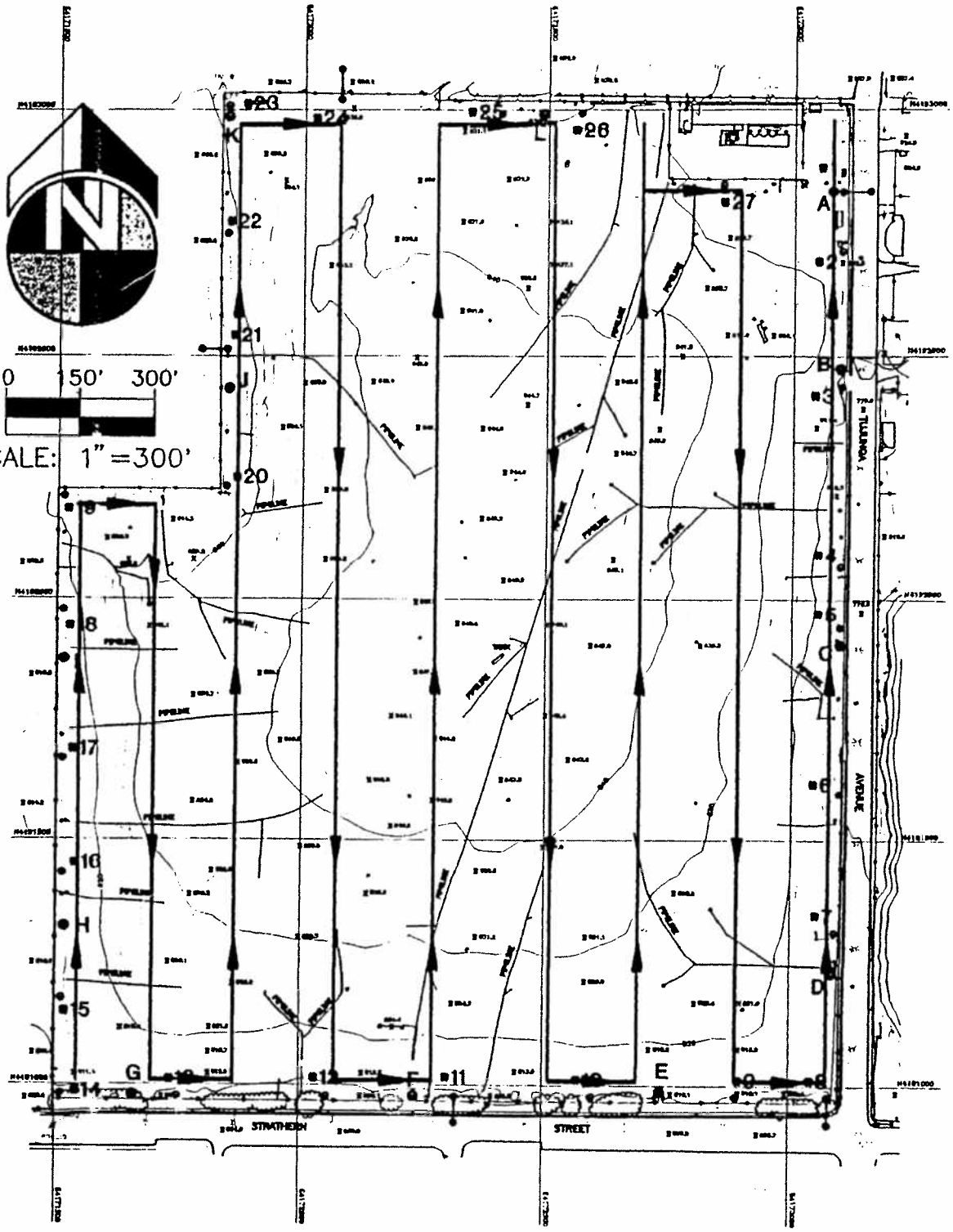
INSTANTANLOUS SURFACL MONITORING



PATH A

Drawing prepared by:
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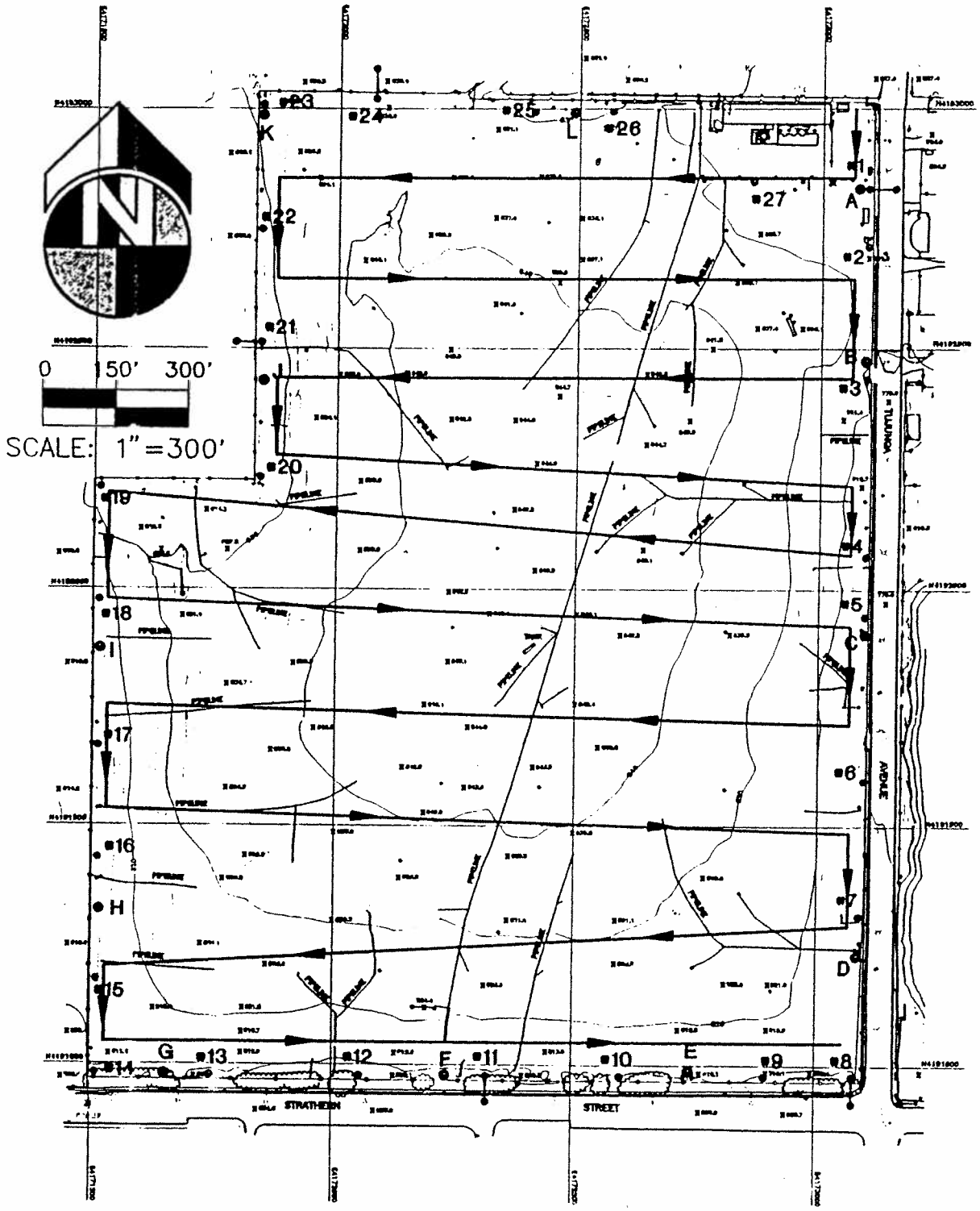
INSTANTANLOUS SURFACL MONITORING



PATH B

Drawing prepared by:

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FAX: (818) 707-3012 (805) 373-8987

For:

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

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EXHIBIT B

Core Group Toxic Air Contaminants

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TABLE 1: TOXIC AIR CONTAMINANTS -- CORE GROUP

1. Acetonitrile CH_3CN
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1 Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2 Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1 Dichloroethene (Vinylidene Chloride) $CH_2:CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C:CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1 Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichloroethylene $CHCl:CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2:CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Data - First Quarter, 1995

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SMITH-EMERY COMPANY
The Full Service Independent Testing Laboratory, Established 1904

781 East Washington Boulevard • Los Angeles, California 90021 • (213) 749-3411 • Fax: (213) 746-7228
P.O. Box 880550, Hunter's Point Shipyard Bldg. 114 • San Francisco, California 94188 • (415) 330-3000 • Fax: (415) 330-3031
5427 East La Palma Avenue • Anaheim, California 92807 • (714) 693-1026 • Fax: (714) 693-1034

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

January 24, 1995

FILE NO: 6022

LAB NO: 5018115200

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	4	@ 120'	4	@ 10'	ND	@ 10'	ND
@ 40'	2	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

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5427 East La Palma Avenue • Anaheim, California 92807 • (714) 693-1026 • Fax (714) 693-1034

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

January 24, 1994

FILE NO: 6022

LAB NO: 5018115200

SAMPLE: On 01/06/95 at 15:00, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8087

JOB NAME: PENROSE

JOB No. J152-6
DATE 01/20/95

INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still		dry	
clear	overcast	33°-55°	86°-100°	breeze		moderate	
fog	rain	56°-70°	>100° F	wind		humid	

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert M'Allister

REMARKS: There was no evidence of wind but a heavy amount of fog was present. Temperatures were cool and ground was moist. Last precipitation was 72 hours ago. OVA instrument used was FOXBORO 128, last calibrated at 7:00 am on 01/20/95. Pathway taken by Contractor was "B" of which walking started at 8:33 am and the monitor concluded at 10:10 am. There were No Detections to report.

☐ REINSPECTION REQUIRED

Robert M'Allister
INSPECTOR

PRINCIPAL

002226

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8087

JOB NAME: Penrose

JOB No. 5152-6
DATE 01/20/95

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain | <32° F / 71°-85° / 33°-55° / 86°-100° / 56°-70° / >100° F | still / breeze / wind | dry / moderate / humid

LOCATION: Penrose

PURPOSE: ISS and PPS and TSI

CONTRACTOR(S): Robert McAllister

REMARKS: Due to heavy amounts of Rain this month contractor took samples on same day as [redacted] the instantaneous surface monitor. Last precipitation recorded was over 72 hours ago. The two instrument was the Foxboro 128 last calibrated on 01/20/95 at 7:00am. The The instrument used was the Combustable Gas meter last calibrated on 12/16/94. The H_2S tests were done with Dräger tubes and Dräger pump. The integrated surface samples used were a portable self-contained unit with its own internal power source. Tedlar

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

002227

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD #103
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 01/20/95

REMARKS CONTINUED: bags were used that held 10 liters and when filled were placed into a black trash bag to protect from sunlight.

@ 10' was sampled and tests showed ND of H_2S and 2% TOC. ISS 35 was sampled at 10:31 AM and tests showed ND of OVA and ND of H_2S. ISS 26 was sampled at 10:54 AM and tests showed ND of OVA and H_2S ND. The TSI sample was taken at 11:25 AM and showed a 45% TOC and 98 ppm H_2S.

INSPECTOR

PRINCIPAL

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 1-20-95

Job # 5152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME		
INSTRUMENT		
PARAMETER		

REMARKS:
Q 10' 10:15 AM
25 10:31 AM
26 10:54 AM
TSI 11:28 AM

PROBE #	TOC	H_2S
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
TSI	44%	98ppm
	OVA	
25	ND	ND
[illegible]	ND	ND

PROBE #			
	B		
C	GREEN-21'		
C	YELLOW-41'		
C	ORANGE-61'		
C	RED-81'		
	D		
	E		
	F		
	G		
	H		
I	GREEN-17'		
I	YELLOW-37'		
I	ORANGE-57'		
I	RED-77'		
	J		
	K		
L	GREEN-45'		
L	YELLOW-65'		
L	ORANGE-85'		
L	RED-105'		
	M		
N	GREEN-22'		
N	YELLOW-45'		
N	ORANGE-68'		
N	RED-90'		
P	10'		
P	40'		
P	80'		
P-1	120'		

PROBE #		TOC	H_2S
Q	10'	.2%	ND
Q	40'		
Q	75'		
Q-1	120'		
Q-1	158'		
R	10'		
R	40'		
R	80'		
R	120'		
S	10'		
S	40'		
S	80'		
S	120'		
T	10'		
T	40'		
T	73'		
T-1	72'		
U	10'		
U	37'		
U	68'		
V	10'		
V	40'		
V	73'		
W	10'		
W	40'		
W	80'		
W	120'		
W	158'		

For [illegible]ed by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8982

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328

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	1-20-95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4 Methane					Fixed Gas	REMARKS: TOC	H_2S	DUA
Q10'	1-20 95	10:15 AM	G	1	Probe Q 10'	✓	✓							.2%	ND	
25	1-20 95	10:31 AM	C	1	ISS 25	✓	✓	✓							ND	ND
26	1-20 95	10:54 AM	C	1	ISS 26	✓	✓	✓							ND	ND
TSI	1-20 95	11:28 AM	G	1	Plant inlet Sample	✓	✓						✓	44%	98ppm	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	1-20-95	12:03 P.
RECEIVED BY:	[illegible]	LOS ANGELES BYI PRODUCTS	1-20-95	12:03
RELINQUISHED BY:	[illegible]	LOS ANGELES BYI PRODUCTS	1-20-95	12:50
RECEIVED BY:	[illegible]	OMSCLENCE	1-20-95	12:5
RELINQUISHED BY:	[illegible]	OMSCLENCE	1-20-95	14

002230

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SMITH-EMERY COMPANY
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5427 East La Palma Avenue • Anaheim, California 92807 • (714) 693-1026 • Fax: (714) 693-1034

Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

February 1, 1995

FILE NO: 70237

LAB NO: 5031090000

SAMPLE: On 01/20/95 at 15:00, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 E. Washington Blvd.
Commerce, CA 90040

February 1, 1995

FILE NO: 70237

LAB NO: 5031090000

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	2	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	2	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	3			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. Robert McAllister

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8087

JOB NAME: PENROSE

JOB No. 5152-6
DATE 02/01/95

INSPECTION REPORT

CLIMATE: (sunny) clear fog | cloudy overcast rain | <32° F 33°-55° 56°-70° | 71°-85° (86°-100°) >100° F | still (breeze) wind | dry moderate (humid)

LOCATION: Penrose

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: There was a slight breeze .8 to 2.3 mph. The temperature was warm and humid. The last recorded precipitation was over 72 hours ago. The monitor began at 8:45 am and concluded at 11:55 AM. The instrument used in monitor was the Foxboro 128 last calibrated at 7:20 am on 02/01/95 by contractor. There were two recordings which are labelled on map. Both recordings pegged instrument, thus were 1,000 ppm or more. Mitigation of areas will follow monitor. These recordings were found in the cracks and holes of the ground. An electronic wind speed indicator was used to determine wind velocity. Contractor noticed cracks and holes present in the two areas labelled area six and eleven

(X) REINSPECTION REQUIRED in two weeks check areas again.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET ___ OF ___

002233

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

February 24, 1995

FILE NO: 6022

LAB NO: 5055083300

SAMPLE: On 02/10/95 at 15:00, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

February 24, 1995

FILE NO: 6022

LAB NO: 5055083300

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	4	@ 160'	2	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3016 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: Penrose

JOB No. 5152-6
DATE 2/15/95

INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still	dry
clear	overcast	33°-55°	86°-100°	breeze	moderate
fog	rain	56°-70°	>100° F	wind	humid

LOCATION: Penrose

PURPOSE: Reinspection after mitigation of areas

CONTRACTOR(S): Robert McAllister

REMARKS: After Mitigation contractor monitored both areas. The monitor resulted in ND, however Air samples later this month will be taken from these two areas.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

002226

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SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3016 (805) 373-9371
FAX: (818) 707-3012 (805) 373-8087

JOB NAME: Penrose

JOB No. 5152-6
DATE 02/21/95

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain; <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F; still, breeze, windy; dry, moderate, humid

LOCATION: Penrose

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): Robert McAllister

REMARKS: Weather was warm with high clouds and wind velocity at 2.8 to 4.4 mph. The last precipitation was over 2 weeks past. The ground was covered with leave vegetation; grass, weeds and flowers.

The H_2S samples were taken with Drager tubes and a Drager Pump. The DUA instrument was the FOXBORO 128 last calibrated at 7:20 AM 2/21/95. The TOC is the Natural Gas Indicator last calibrated at 8:45 AM 2/21/95. The integrated surface Samples (ISS) was taken with a

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

002227

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: Penrose

JOB No. J152-6
DATE 02/21/95

REMARKS CONTINUED: portable self-contained unit with its own internal power source. Ten liter tedlar bags were used which when filled were placed into a black bag to protect from sunlight.

At 906 AM The TSI was taken and tests resulted with 44% TOC and 120 ppm H_2S. At 10:10 AM @ 40' sample was taken and tests resulted with ND TOC and ND H_2S. At 10:42 AM ISS 11 was taken and tests resulted with ND OVA and ND H_2S. At 11:33 AM ISS 6 was taken and tests resulted with ND H_2S and ND OVA.

Robert McAllister
INSPECTOR

PRINCIPAL

002288

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 2/21/95
Job # 5152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME		
INSTRUMENT		
PARAMETER		

REMARKS: Weather was WARM with High Clouds. Wind Velocity was 2.8 to 4.4 mph. Last Rain Recorded over 2 weeks past. Ground was ~~covered~~ covered with heavy Vegetation; grass, flowers and weeds.

PROBE #	OVA	H_2S
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
ISS 6	ND	ND
ISS 11	ND	ND

PROBE #			
	B		
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
	D		
	E		
	F		
	G		
	H		
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
	J		
	K		
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
	M		
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'		
	40'		
	80'		
P-1	120'		

PROBE #		TOC	H_2S
Q	10'		
	40'	ND	ND
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	44%	120 ppm

For [illegible] by: METHANE SPECIALISTS

[illegible] WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3038 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8[illegible]

002[illegible]

CONFIDENTIA

(326)

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	Instantaneous Surface Samples PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	2/21/95

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORR GROUP	NMHC	CH_4					Fixed Gas	REMARKS
ISS 6	2/21 95	11:33 AM	C		Instantaneous Surface Sample 6	✓	✓	✓						
ISS 11	2/21 95	10:42 AM	C		Instantaneous Surface Sample 11	✓	✓	✓						
TSI	2/21 95	9:06 AM	G		Plant Inlet Sample	✓	✓						✓	
Q 40'	2/21 95	10:10 AM	G		Probe Q at 40'	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	2/21/95	11:55 AM
RECEIVED BY:	[illegible]	LOS ANGELES BY-PRODUCTS	2-21-95	11:57 AM
RELINQUISHED BY:	[illegible]	LOS ANGELES BY-PRODUCTS	2-21-95	12:05 PM
RECEIVED BY:	[illegible]	CALSCIENCE	2-21-95	12:05 P.M.
RELINQUISHED BY:	[illegible]	CALSCIENCE	2-21-95	13:00 P.M.
RECEIVED BY:	[illegible]	Calscience	[illegible]	[illegible]

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

March 9, 1995

FILE NO: 70237

LAB NO: 5067091800

SAMPLE: On 02/23/95 at 15:00, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 E. Washington Blvd.
Commerce, CA 90040

March 9, 1995

FILE NO: 70237

LAB NO: 5067091800

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	4			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. Robert McAllister

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

April 5, 1995

RECEIVED
APR 0 1995
LA BY-PROD CO

FILE NO: 6022

LAB NO: 5088092400

SAMPLE: On 03/10/95 at 15:00, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Los Angeles By-Products
Attn: Robert McAllister
1810 East 25th Street
Los Angeles, CA 90058

April 5, 1995

FILE NO: 6022

LAB NO: 5088092400

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	2
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site O	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	4	@ 10'	ND	@ 10'	ND
@ 40'	3	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	4			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3056 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6
DATE 03/15/95

INSPECTION REPORT

CLIMATE: (bright) clear fog cloudy overcast rain | <32° F 33°-55° 56°-70° (71°-85°) 86°-100° >100° F | still (breeze) wind | (dry) moderate humid

LOCATION: PENROSE

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert M. McAllister

REMARKS: The weather was warm with bright sunshine. There was a slight breeze with velocity of 1.8 to 4.7 mph, velocity determined by an electronic wind speed indicator. The OVA instrument used was the FOXBORO 128 last calibrated on 03/15/95 at 7:15 am. by Robert M. McAllister. The monitor began at 8:26 am and concluded at 10:53 am. The pathway taken by contractor was the 'B' path. There were no recordings greater than 500 ppm.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #103
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3018 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6
DATE 3/20/95

INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 32°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: ISS, PPS, TSI

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was cool with heavy cloud cover. The electronic wind speed indicator determined a 3.8 to 4.6 mph. breeze south wind. The last recorded precipitation was over one week ago.

The instruments used in testing of samples were the following: OVA instrument was the FOXBORO 128 last calibrated at 8:05 am 3-20-95 by R.M., the Natural Gas Indicator (TOC) was last calibrated at 9:10 AM 3-20-95 by Tony Robinson at P.E., and H_2S tests were done with Drager tubes and a Drager pump. The air samples were drawn into 10 liter Tedlar bags

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

002246

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 3/20/95

REMARKS CONTINUED: and placed into a large black bag after they had been filled. The Integrated surface sampler used is a portable self-contained unit with its own internal power source, which collected the samples at 4 liters per minute. 4 liters/min pumping rate

At 9:24 AM the TSI sample was taken, resulted with 45% TOC and 110 ppm of H_2S. At 9:50 AM, Q 80' sample was taken with ND in H_2S and ND TOC. AT 10:29 AM, Q 40' sample was taken, resulted with ND TOC and ND H_2S. AT 11:32 AM, sample ISS 25 was taken, resulted in ND OVA and ND H_2S. AT 11:55 AM, sample ISS 6 was taken resulted in ND of OVA and ND of H_2S.

ISS samples were taken in areas that had evidence of gases in the month of January according to the laboratory.

INSPECTOR

PRINCIPAL

SHEET OF

002247

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 235-4175 Fax: (213) 211-4170

PENROSE LANDFILL

Date 3-20-95

Job # JS52-6

GAS CONCENTRATIONS

INITIALS		
TIME		
INSTRUMENT		
PARAMETER		

REMARKS: NP-204
TOC = Natural Gas Indicator last calibrated 9:10 AM 3-20-95
OVA = Foxboro 128 last calibrated 8:05 AM 3-20-95
H_2S = Drager Tubes and Drager Pump.

PROBE #	H_2S	OVA
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
ISS 6	ND	ND
ISS 25	ND	ND

PROBE #		
B		
C	GREEN-21'	
	YELLOW-41'	
	ORANGE-61'	
	RED-81'	
D		
E		
F		
G		
H		
I	GREEN-17'	
	YELLOW-37'	
	ORANGE-57'	
	RED-77'	
J		
K		
L	GREEN-45'	
	YELLOW-65'	
	ORANGE-85'	
	RED-105'	
M		
N	GREEN-22'	
	YELLOW-45'	
	ORANGE-68'	
	RED-90'	
P	10'	
	40'	
	80'	
P-1	120'	

PROBE #		TOC	H_2S
Q	10'		
	40'	ND	ND
	80'	ND	ND
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	45%	110ppm

For [illegible] by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3036 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8982

00224

CONFIDENTIAL

JOB NAME: PENROSE LANDFILL — PERIMETER PROBE SAMPLES, PLANT INLET SAMPLE (Instantaneous Surface Samples)

FILE (JOB#): J152-6

DATE: 3-20-95

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT M. McAllister — JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC					Methane	Fixed Gas	REMARKS
Q40'	3-20-95	10:29 AM	G		Probe Q 40'	✓	✓							
Q80'	3-20-95	9:50 AM	G		Probe Q 80'	✓	✓							
TSI	3-20-95	9:24 AM	G		Plant Inlet	✓	✓						✓	
ISS 6	3-20-95	11:55 AM	C		Instantaneous Surface Sample Probe 6	✓	✓					✓		
ISS 25	3-20-95	11:52 AM	C		Instantaneous Surface Sample Area 25	✓	✓					✓		

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	Los Angeles By Products	3-20-95	12:50 PM
RECEIVED BY:	[illegible]	L.A. By Prod.	3-20-95	12:50 PM
RELINQUISHED BY:	[illegible]	L.A. By Prod.	3-20-95	1:10 PM
RECEIVED BY:	[illegible]	Calscience	3-20-95	1:10 P.M.
RELINQUISHED BY:	[illegible]	Calscience	3-20-95	16:00
RECEIVED BY:	[illegible]	Calscience	3/20/95	1600

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

April 5, 1995

RECEIVED
APR 0 . 1995
L.A. BY-PROD. CO.

FILE NO: 70237

LAB NO: 5088092000

SAMPLE: On 03/24/95 at 15:45, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

CONFIDENTIAL

POSITIVE LAB SERVICE

781 East Washington Blvd., Los Angeles, CA 90021
(213) 745-5312 FAX (213) 745-6372

Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 E. Washington Blvd.
Commerce, CA 90040

April 5, 1995

FILE NO: 70237

LAB NO: 5088092000

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	2	@ 120'	2	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	3	@ 40'	ND	@ 40'	ND
@ 80'	2			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. Robert McAllister

CONFIDENTIAL

EXHIBIT D

Laboratory Analytical Results - First Quarter, 1995

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products		Date Sampled:	01/20/95
3617 East Thousand Oaks Blvd, Suite 303		Date Received:	01/20/95
Westlake Village, CA 91362		Date Analyzed:	01/21/95
		Work Order No.:	95-01-328
Attn: Alex Feucht		Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6		Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Q10'

Analyte	Concentration	Reportable Limit
Methane	146000	1000
TGNMO	21.7	1.0

Sample Number: 25

Methane	739	1.0
TGNMO	ND	1.0

Sample Number: 26

Methane	1.76	1.0
TGNMO	ND	1.0

Sample Number: TSI

Oxygen	10300	1000
Nitrogen	190000	1000
Methane	417000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	373000	1000
TGNMO	372	1.0

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	01/20/95
3617 East Thousand Oaks Blvd, Suite 303	Date Received:	01/20/95
Westlake Village, CA 91362	Date Analyzed:	01/21/95
	Work Order No.:	95-01-328
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank #1

Analyte	Concentration	Reportable Limit
Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
TGNMO	ND	1.0

Sample Number: Method Blank #2

Methane	ND	1.0

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	01/20/95
3617 East Thousand Oaks Blvd, Suite 303	Date Received:	01/20/95
Westlake Village, CA 91362	Date Analyzed:	01/21/95
	Work Order No.:	95-01-328
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: TSI (Duplicate)				
Oxygen	10300	12700	21	0 - 25
Nitrogen	190000	203000	7	0 - 25
Methane	417000	407000	2	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	373000	364000	2	0 - 25
TGNMO	372	396	6	0 - 25

Reviewed and Approved _____ on 01/31/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	01/20/95
3617 East Thousand Oaks Blvd, Suite 303	Date Received:	01/20/95
Westlake Village, CA 91362	Date Analyzed:	01/23/95
	Work Order No.:	95-01-328
Attn: Alex Feucht	Method:	EPA TO-14 (Target Compounds)
RE: Penrose Landfill/J152-6	Page 1 of 6	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Q10'		
Vinyl Chloride	ND	20
Acetonitrile	ND	50
1,1-Dichloroethene	ND	20
Methylene Chloride	ND	50
1,1-Dichloroethane	ND	20
Chloroform	ND	20
1,2-Dichloroethane	ND	20
1,1,1-Trichloroethane	ND	20
Benzene	29.4	20
Carbon Tetrachloride	ND	20
Trichloroethene	ND	20
Toluene	88.7	20
Tetrachloroethene	ND	20
Chlorobenzene	25.7	20
Total Xylenes	499	40
Benzyl Chloride	ND	20
1,3-Dichlorobenzene	ND	20
1,4-Dichlorobenzene	ND	20
1,2-Dichlorobenzene	ND	20

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	01/20/95
3617 East Thousand Oaks Blvd, Suite 303	Date Received:	01/20/95
Westlake Village, CA 91362	Date Analyzed:	01/23/95
	Work Order No.:	95-01-328
Attn: Alex Feucht	Method:	EPA TO-14 (Target Compounds)
RE: Penrose Landfill/J152-6	Page 2 of 6	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: 25		
Vinyl Chloride	ND	1.00
Acetonitrile	46.2	2.50
1,1-Dichloroethene	ND	1.00
Methylene Chloride	6.38	2.50
1,1-Dichloroethane	ND	1.00
Chloroform	ND	1.00
1,2-Dichloroethane	ND	1.00
1,1,1-Trichloroethane	1.04	1.00
Benzene	ND	1.00
Carbon Tetrachloride	ND	1.00
Trichloroethene	ND	1.00
Toluene	21.1	1.00
Tetrachloroethene	ND	1.00
Chlorobenzene	ND	1.00
Total Xylenes	7.75	2.00
Benzyl Chloride	ND	1.00
1,3-Dichlorobenzene	ND	1.00
1,4-Dichlorobenzene	ND	1.00
1,2-Dichlorobenzene	ND	1.00

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

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Westlake Village, CA 91362	Date Analyzed:	01/23/95
	Work Order No.:	95-01-328
Attn: Alex Feucht	Method:	EPA TO-14 (Target Compounds)
RE: Penrose Landfill/J152-6	Page 3 of 6	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: 26		
Vinyl Chloride	ND	0.40
Acetonitrile	73.9	1.00
1,1-Dichloroethene	ND	0.40
Methylene Chloride	5.09	1.00
1,1-Dichloroethane	ND	0.40
Chloroform	ND	0.40
1,2-Dichloroethane	ND	0.40
1,1,1-Trichloroethane	1.23	0.40
Benzene	1.19	0.40
Carbon Tetrachloride	ND	0.40
Trichloroethene	ND	0.40
Toluene	35.9	0.40
Tetrachloroethene	0.48	0.40
Chlorobenzene	ND	0.40
Total Xylenes	11.1	0.80
Benzyl Chloride	ND	0.40
1,3-Dichlorobenzene	ND	0.40
1,4-Dichlorobenzene	0.82	0.40
1,2-Dichlorobenzene	ND	0.40

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ANALYTICAL REPORT

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Westlake Village, CA 91362		Date Analyzed:	01/23/95
		Work Order No.:	95-01-328
Attn: Alex Feucht		Method:	EPA TO-14 (Target Compounds)
RE: Penrose Landfill/J152-6		Page 4 of 6	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Vinyl Chloride	ND	50
Acetonitrile	1330	125
1,1-Dichloroethene	ND	50
Methylene Chloride	ND	125
1,1-Dichloroethane	ND	50
Chloroform	ND	50
1,2-Dichloroethane	ND	50
1,1,1-Trichloroethane	192	50
Benzene	1440	50
Carbon Tetrachloride	ND	50
Trichloroethene	981	50
Toluene	13100	50
Tetrachloroethene	256	50
Chlorobenzene	1280	50
Total Xylenes	16700	100
Benzyl Chloride	ND	50
1,3-Dichlorobenzene	ND	50
1,4-Dichlorobenzene	211	50
1,2-Dichlorobenzene	76.3	50

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ANALYTICAL REPORT

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3617 East Thousand Oaks Blvd, Suite 303	Date Received:	01/20/95
Westlake Village, CA 91362	Date Analyzed:	01/23/95
	Work Order No.:	95-01-328
Attn: Alex Feucht	Method:	EPA TO-14 (Target Compounds)
RE: Penrose Landfill/J152-6	Page 5 of 6	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Vinyl Chloride	ND	0.20
Acetonitrile	1.81	0.50
1,1-Dichloroethene	ND	0.20
Methylene Chloride	ND	0.50
1,1-Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,2-Dichloroethane	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Benzene	ND	0.20
Carbon Tetrachloride	ND	0.20
Trichloroethene	ND	0.20
Toluene	ND	0.20
Tetrachloroethene	ND	0.20
Chlorobenzene	ND	0.20
Total Xylenes	ND	0.20
Benzyl Chloride	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

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ANALYTICAL REPORT

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3617 East Thousand Oaks Blvd, Suite 303	Date Received:	01/20/95
Westlake Village, CA 91362	Date Analyzed:	01/23/95
	Work Order No.:	95-01-328
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 6 of 6	

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: Q10' (Duplicate)				
Vinyl Chloride	ND	ND	NA	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	ND	ND	NA	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 - 30
1,1,1-Trichloroethane	ND	ND	NA	0 - 30
Benzene	29.4	25.9	13	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	ND	ND	NA	0 - 30
Toluene	88.7	90.3	2	0 - 30
Tetrachloroethene	ND	ND	NA	0 - 30
Chlorobenzene	25.7	29.1	12	0 - 30
Total Xylenes	499	459	8	0 - 30
Benzyl Chloride	ND	ND	NA	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved William H. Christensen on 01/31/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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328

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	1-20-95

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4 Methane					Fixed Gas	REMARKS: TOC	H_2S	DUA
Q 10'	1-20 95	10:15 AM	G	1	Probe Q 10'	✓	✓							.2%	ND	
25	1-20 95	10:31 AM	C	1	ISS 25	✓	✓	✓							ND	ND
26	1-20 95	10:54 AM	C	1	ISS 26	✓	✓	✓							ND	ND
TSI	1-20 95	11:28 AM	G	1	Plant inlet Sample	✓	✓						✓	44%	98ppm	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	1-20-95	12:03 PM
RECEIVED BY:	[illegible]	LOS ANGELES BY PRODUCTS	1-20-95	12:03 PM
RELINQUISHED BY:	[illegible]	LOS ANGELES BY PRODUCTS	1-20-95	12:50 PM
RECEIVED BY:	[illegible]	CAMSCIENCE	1-20-95	12:50 PM
RELINQUISHED BY:	[illegible]	CAMSCIENCE	1-20-95	12:50
RECEIVED BY:	[illegible]	CFL	1/20/95	14:50

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	02/21/95
c/o John Sepich Associates, Inc.	Date Received:	02/21/95
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	02/22/95
Westlake Village, CA 91362		
	Work Order No.:	95-02-326
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS 6

Analyte	Concentration	Reportable Limit
Methane	ND	1.0
TGNMO	3.26	1.0

Sample Number: ISS 11

Methane	ND	1.0
TGNMO	3.5	1.0

Sample Number: TSI

Oxygen	13100	1000
Nitrogen	203000	1000
Methane	421000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	350000	1000
TGNMO	424	1.0

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	02/21/95
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3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	02/22/95
Westlake Village, CA 91362		
	Work Order No.:	95-02-326
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Q 40'

Analyte	Concentration	Reportable Limit
Methane	2.5	1.0
TGNMO	4.16	1.0

Sample Number: Method Blank

Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
Methane	ND	1.0
TGNMO	ND	1.0

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ANALYTICAL REPORT

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3617 East Thousand Oaks Blvd., Suite 303		Date Analyzed:	02/22/95
Westlake Village, CA 91362			
		Work Order No.:	95-02-326
Attn:	Alex Feucht	Method:	SCAQMD 25.1
RE:	Penrose Landfill/J152-6	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: TSI (Duplicate)				
Oxygen	13100	14000	7	0 - 25
Nitrogen	203000	206000	1	0 - 25
Methane	421000	419000	1	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	350000	349000	1	0 - 25
TGNMO	424	453	7	0 - 25

Reviewed and Approved _____ on 03/03/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	02/21/95
c/o John Sepich Associates, Inc.	Date Received:	02/21/95
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	02/23-24/95
Westlake Village, CA 91362		
	Work Order No.:	95-02-326
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 1 of 8	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: ISS 6		
Vinyl Chloride	ND	0.40
Acetonitrile	416	1.00
1,1-Dichloroethene	ND	0.40
Methylene Chloride	7.59	1.00
1,1 Dichloroethane	ND	0.40
Chloroform	ND	0.40
1,2-Dichloroethane	ND	0.40
1,1,1-Trichloroethane	0.76	0.40
Benzene	0.85	0.40
Carbon Tetrachloride	ND	0.40
Trichloroethene	ND	0.40
Toluene	21.0	0.40
Tetrachloroethene	0.44	0.40
Chlorobenzene	ND	0.40
Total Xylenes	19.9	0.80
Benzyl Chloride	ND	0.40
1,3-Dichlorobenzene	ND	0.40
1,4-Dichlorobenzene	1.51	0.40
1,2-Dichlorobenzene	ND	0.40

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c/o John Sepich Associates, Inc.	Date Received:	02/21/95
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	02/23-24/95
Westlake Village, CA 91362		
	Work Order No.:	95-02-326
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 2 of 8	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: ISS 11		
Vinyl Chloride	ND	0.40
Acetonitrile	380	1.00
1,1-Dichloroethene	ND	0.40
Methylene Chloride	6.24	1.00
1,1 Dichloroethane	ND	0.40
Chloroform	ND	0.40
1,2-Dichloroethane	ND	0.40
1,1,1-Trichloroethane	0.80	0.40
Benzene	0.94	0.40
Carbon Tetrachloride	ND	0.40
Trichloroethene	ND	0.40
Toluene	35.3	0.40
Tetrachloroethene	0.49	0.40
Chlorobenzene	ND	0.40
Total Xylenes	16.9	0.80
Benzyl Chloride	ND	0.40
1,3-Dichlorobenzene	ND	0.40
1,4-Dichlorobenzene	1.59	0.40
1,2-Dichlorobenzene	ND	0.40

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ANALYTICAL REPORT

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3617 East Thousand Oaks Blvd., Suite 303		Date Analyzed:	02/23-24/95
Westlake Village, CA 91362			
		Work Order No.:	95-02-326
Attn:	Alex Feucht	Method:	EPA TO-14 (Target Compounds)
RE:	Penrose Landfill/J152-6	Page 3 of 8	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Vinyl Chloride	743	100
Acetonitrile	1210	250
1,1-Dichloroethene	901	100
Methylene Chloride	ND	250
1,1 Dichloroethane	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	934	100
Benzene	1160	100
Carbon Tetrachloride	ND	100
Trichloroethene	1030	100
Toluene	11600	100
Tetrachloroethene	210	100
Chlorobenzene	841	100
Total Xylenes	12400	200
Benzyl Chloride	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100

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Westlake Village, CA 91362			
		Work Order No.:	95-02-326
Attn:	Alex Feucht	Method:	EPA TO-14 (Target Compounds)
RE:	Penrose Landfill/J152-6	Page 4 of 8	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Q 40'		
Vinyl Chloride	ND	20
Acetonitrile	1120	50
1,1-Dichloroethene	ND	20
Methylene Chloride	ND	50
1,1 Dichloroethane	ND	20
Chloroform	22.6	20
1,2-Dichloroethane	ND	20
1,1,1-Trichloroethane	ND	20
Benzene	44.1	20
Carbon Tetrachloride	ND	20
Trichloroethene	ND	20
Toluene	93.4	20
Tetrachloroethene	ND	20
Chlorobenzene	ND	20
Total Xylenes	455	40
Benzyl Chloride	ND	20
1,3-Dichlorobenzene	ND	20
1,4-Dichlorobenzene	ND	20
1,2-Dichlorobenzene	ND	20

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3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	02/23-24/95
Westlake Village, CA 91362		
	Work Order No.:	95-02-326
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 5 of 8	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank #1		
Vinyl Chloride	ND	0.20
Acetonitrile	2.80	0.50
1,1-Dichloroethene	ND	0.20
Methylene Chloride	ND	0.50
1,1 Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,2-Dichloroethane	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Benzene	ND	0.20
Carbon Tetrachloride	ND	0.20
Trichloroethene	ND	0.20
Toluene	ND	0.20
Tetrachloroethene	ND	0.20
Chlorobenzene	ND	0.20
Total Xylenes	ND	0.40
Benzyl Chloride	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	02/21/95
c/o John Sepich Associates, Inc.	Date Received:	02/21/95
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	02/23-24/95
Westlake Village, CA 91362		
	Work Order No.:	95-02-326
Attn: Alex Feucht	Method:	EPA TO-14 (Target Compounds)
RE: Penrose Landfill/J152-6	Page 6 of 8	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank #2		
Vinyl Chloride	ND	0.20
Acetonitrile	2.43	0.50
1,1-Dichloroethene	ND	0.20
Methylene Chloride	ND	0.50
1,1 Dichloroethane	ND	0.20
Chloroform	ND	0.20
1,2-Dichloroethane	ND	0.20
1,1,1-Trichloroethane	ND	0.20
Benzene	ND	0.20
Carbon Tetrachloride	ND	0.20
Trichloroethene	ND	0.20
Toluene	ND	0.20
Tetrachloroethene	ND	0.20
Chlorobenzene	ND	0.20
Total Xylenes	ND	0.40
Benzyl Chloride	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
1,2-Dichlorobenzene	ND	0.20

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products		Date Sampled:	02/21/95
c/o John Sepich Associates, Inc.		Date Received:	02/21/95
3617 East Thousand Oaks Blvd., Suite 303		Date Analyzed:	02/23-24/95
Westlake Village, CA 91362			
		Work Order No.:	95-02-326
Attn:	Alex Feucht	Method:	EPA TO-14 (Target Compounds)
RE:	Penrose Landfill/J152-6	Page 7 of 8	

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 95-02-349-1 (Duplicate)				
Vinyl Chloride	ND	ND	NA	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	ND	ND	NA	0 - 30
1,1 Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	235	209	12	0 - 30
1,1,1-Trichloroethane	ND	ND	NA	0 - 30
Benzene	5780	6330	9	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	ND	ND	NA	0 - 30
Toluene	17500	16400	6	0 - 30
Tetrachloroethene	ND	ND	NA	0 - 30
Chlorobenzene	183	182	1	0 - 30
Total Xylenes	40200	37900	6	0 - 30
Benzyl Chloride	3400	3530	4	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products		Date Sampled:	02/21/95
c/o John Sepich Associates, Inc.		Date Received:	02/21/95
3617 East Thousand Oaks Blvd., Suite 303		Date Analyzed:	02/23-24/95
Westlake Village, CA 91362			
		Work Order No.:	95-02-326
Attn: Alex Feucht		Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 8 of 8	

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 95-02-375-1 (Duplicate)				
Vinyl Chloride	ND	ND	NA	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	ND	ND	NA	0 - 30
1,1 Dichloroethane	1120	1110	1	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	945	948	0	0 - 30
1,1,1-Trichloroethane	ND	ND	NA	0 - 30
Benzene	67500	66300	2	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	ND	ND	NA	0 - 30
Toluene	11600	11500	1	0 - 30
Tetrachloroethene	ND	ND	NA	0 - 30
Chlorobenzene	933	935	0	0 - 30
Total Xylenes	59200	55300	7	0 - 30
Benzyl Chloride	ND	ND	NA	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved _____ on 03/03/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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(326)

JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — PERIMETER PROBE SAMPLES, PLANT INLET SAMPLE (Instantaneous Surface Samples)	J152-6	2/21/95

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH4					Fixed Gas	REMARKS
ISS 6	2/21 95	11:35 AM	C		Instantaneous Surface Sample 6	✓	✓	✓						
ISS 11	2/21 95	10:42 AM	C		Instantaneous Surface Sample 11	✓	✓	✓						
TSI	2/21 95	9:06 AM	G		Plant Inlet Sample	✓	✓						✓	
Q 40'	2/21 95	10:10 AM	G		Probe Q at 40'	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	2/21/95	11:55AM
RECEIVED BY:	[illegible]	LOS ANGELES BY-PRODUCTS	2-21-95	11:57AM
RELINQUISHED BY:	[illegible]	LOS ANGELES BY-PRODUCTS	2-21-95	12:05PM
RECEIVED BY:	[illegible]	CALSCIENCE	2-21-95	12:05 P.M.
RELINQUISHED BY:	[illegible]	CALSCIENCE	2-21-95	13:00 P.M.
RECEIVED BY:	[illegible]	Calscience	2/21/95	13:00

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	03/20/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	03/20/95
Westlake Village, CA 91362	Date Analyzed:	03/20-21/95
	Work Order No.:	95-03-437
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: J152-6/Penrose Landfill	Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Probe Q 40'

Analyte	Concentration	Reportable Limit
Methane	17.1	1.0
TGNMO	3.37	1.0

Sample Number: Probe Q 80'

Methane	1.93	1.0
TGNMO	2.86	1.0

Sample Number: Plant Inlet

Oxygen	12900	1000
Nitrogen	183000	1000
Methane	435000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	356000	1000
TGNMO	391	1.0

Sample Number: Instantaneous Surface Sample Probe 6

Methane	4.1	1.0
TGNMO	1.52	1.0

Sample Number: Instantaneous Surface Sample Area 25

Methane	2.58	1.0
TGNMO	1.57	1.0

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ANALYTICAL REPORT

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3617 East Thousand Oaks Blvd., Suite 303	Date Received:	03/20/95
Westlake Village, CA 91362	Date Analyzed:	03/20-21/95
	Work Order No.:	95-03-437
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: J152-6/Penrose Landfill	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank #1

Analyte	Concentration	Reportable Limit
Methane	ND	1.0
TGNMO	ND	1.0

Sample Number: Method Blank #2

Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
TGNMO	ND	1.0

QA/QC

Sample Number: 95-03-408-3 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Methane	ND	ND	NA	0 - 25
TGNMO	3.11	3.3	6	0 - 25

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	03/20/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	03/20/95
Westlake Village, CA 91362	Date Analyzed:	03/20-21/95
	Work Order No.:	95-03-437
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: J152-6/Penrose Landfill	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Sample Number: Plant Inlet

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen	12900	11000	16	0 - 25
Nitrogen	183000	178000	3	0 - 25
Methane	435000	440000	1	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	356000	360000	1	0 - 25
TGNMO	391	416	6	0 - 25

Reviewed and Approved William H. Christensen on 03/24/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	03/20/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	03/20/95
Westlake Village, CA 91362	Date Analyzed:	03/21-22/95
	Work Order No.:	95-03-437
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: J152-6/Penrose Landfill	Page 1 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Probe Q 40'		
Vinyl Chloride	ND	10.0
Acetonitrile	ND	25.0
1,1-Dichloroethene	ND	10.0
Methylene Chloride	ND	25.0
1,1-Dichloroethane	ND	10.0
Chloroform	ND	10.0
1,2-Dichloroethane	ND	10.0
1,1,1-Trichloroethane	ND	10.0
Benzene	10.5	10.0
Carbon Tetrachloride	ND	10.0
Trichloroethene	ND	10.0
Toluene	164	10.0
Tetrachloroethene	ND	10.0
Chlorobenzene	12.4	10.0
Total Xylenes	360	20.0
Benzyl Chloride	ND	10.0
1,3-Dichlorobenzene	ND	10.0
1,4-Dichlorobenzene	ND	10.0
1,2-Dichlorobenzene	ND	10.0

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	03/20/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	03/20/95
Westlake Village, CA 91362	Date Analyzed:	03/21-22/95
	Work Order No.:	95-03-437
Attn: Alex Feucht	Method:	EPA TO-14 (Target Compounds)
RE: J152-6/Penrose Landfill	Page 2 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Probe Q 80'		
Vinyl Chloride	ND	10.0
Acetonitrile	ND	25.0
1,1-Dichloroethene	ND	10.0
Methylene Chloride	ND	25.0
1,1-Dichloroethane	ND	10.0
Chloroform	ND	10.0
1,2-Dichloroethane	ND	10.0
1,1,1-Trichloroethane	ND	10.0
Benzene	10.7	10.0
Carbon Tetrachloride	ND	10.0
Trichloroethene	ND	10.0
Toluene	218	10.0
Tetrachloroethene	ND	10.0
Chlorobenzene	11.8	10.0
Total Xylenes	1360	20.0
Benzyl Chloride	ND	10.0
1,3-Dichlorobenzene	ND	10.0
1,4-Dichlorobenzene	17.6	10.0
1,2-Dichlorobenzene	ND	10.0

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ANALYTICAL REPORT

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3617 East Thousand Oaks Blvd., Suite 303	Date Received:	03/20/95
Westlake Village, CA 91362	Date Analyzed:	03/21-22/95
	Work Order No.:	95-03-437
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: J152-6/Penrose Landfill	Page 3 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Plant Inlet		
Vinyl Chloride	547	100
Acetonitrile	ND	250
1,1-Dichloroethene	ND	100
Methylene Chloride	ND	250
1,1-Dichloroethane	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	138	100
Benzene	895	100
Carbon Tetrachloride	ND	100
Trichloroethene	ND	100
Toluene	14900	100
Tetrachloroethene	287	100
Chlorobenzene	1170	100
Total Xylenes	19600	200
Benzyl Chloride	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	160	100
1,2-Dichlorobenzene	ND	100

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	03/20/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	03/20/95
Westlake Village, CA 91362	Date Analyzed:	03/21-22/95
	Work Order No.:	95-03-437
Attn: Alex Feucht	Method:	EPA TO-14 (Target Compounds)
RE: J152-6/Penrose Landfill	Page 4 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Instantaneous Surface Sample Probe 6		
Vinyl Chloride	ND	0.400
Acetonitrile	ND	1.00
1,1-Dichloroethene	ND	0.400
Methylene Chloride	ND	1.00
1,1-Dichloroethane	ND	0.400
Chloroform	ND	0.400
1,2-Dichloroethane	ND	0.400
1,1,1-Trichloroethane	1.12	0.400
Benzene	0.693	0.400
Carbon Tetrachloride	ND	0.400
Trichloroethene	ND	0.400
Toluene	18.9	0.400
Tetrachloroethene	0.428	0.400
Chlorobenzene	ND	0.400
Total Xylenes	4.42	0.800
Benzyl Chloride	ND	0.400
1,3-Dichlorobenzene	ND	0.400
1,4-Dichlorobenzene	1.64	0.400
1,2-Dichlorobenzene	ND	0.400

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	03/20/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	03/20/95
Westlake Village, CA 91362	Date Analyzed:	03/21-22/95
	Work Order No.:	95-03-437
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: J152-6/Penrose Landfill	Page 5 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Instantaneous Surface Sample Area 25		
Vinyl Chloride	ND	0.400
Acetonitrile	ND	1.00
1,1-Dichloroethene	ND	0.400
Methylene Chloride	ND	1.00
1,1-Dichloroethane	ND	0.400
Chloroform	ND	0.400
1,2-Dichloroethane	ND	0.400
1,1,1-Trichloroethane	0.963	0.400
Benzene	0.609	0.400
Carbon Tetrachloride	ND	0.400
Trichloroethene	ND	0.400
Toluene	36.6	0.400
Tetrachloroethene	0.665	0.400
Chlorobenzene	ND	0.400
Total Xylenes	6.98	0.800
Benzyl Chloride	ND	0.400
1,3-Dichlorobenzene	ND	0.400
1,4-Dichlorobenzene	0.541	0.400
1,2-Dichlorobenzene	ND	0.400

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	03/20/95
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	03/20/95
Westlake Village, CA 91362	Date Analyzed:	03/21-22/95
	Work Order No.:	95-03-437
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: J152-6/Penrose Landfill	Page 6 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Vinyl Chloride	ND	0.200
Acetonitrile	2.44	0.500
1,1-Dichloroethene	ND	0.200
Methylene Chloride	ND	0.500
1,1-Dichloroethane	ND	0.200
Chloroform	ND	0.200
1,2-Dichloroethane	ND	0.200
1,1,1-Trichloroethane	ND	0.200
Benzene	ND	0.200
Carbon Tetrachloride	ND	0.200
Trichloroethene	ND	0.200
Toluene	ND	0.200
Tetrachloroethene	ND	0.200
Chlorobenzene	ND	0.200
Total Xylenes	ND	0.200
Benzyl Chloride	ND	0.400
1,3-Dichlorobenzene	ND	0.200
1,4-Dichlorobenzene	ND	0.200
1,2-Dichlorobenzene	ND	0.200

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates
3617 East Thousand Oaks Blvd., Suite 303
Westlake Village, CA 91362

Date Sampled: 03/20/95
Date Received: 03/20/95
Date Analyzed: 03/21-22/95

Work Order No.: 95-03-437
Method: EPA TO-14 (Target Compounds)

Attn: Alex Feucht
RE: J152-6/Penrose Landfill

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: Plant Inlet				
Vinyl Chloride	547	592	8	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	ND	ND	NA	0 -30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 -30
1,1,1-Trichloroethane	138	145	5	0 - 30
Benzene	895	1070	18	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	ND	ND	NA	0 - 30
Toluene	14900	13000	14	0 - 30
Tetrachloroethene	287	252	13	0 - 30
Chlorobenzene	1170	1040	12	0 - 30
Benzyl Chloride	ND	ND	NA	0 - 30
Total Xylenes	19600	15600	23	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	160	151	6	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved William H. Christensen on 03/24/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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(437)

JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — PERIMETER PROBE SAMPLES, PLANT INLET SAMPLE (Instantaneous Surface Samples)	J152-6	3-20-95

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT M. McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC					Methane	Fixed Gas	REMARKS
Q40'	3-20 95	10:29 AM	G		Probe Q 40'	✓	✓							
Q80'	3-20 95	9:50 AM	G		Probe Q 80'	✓	✓							
TSI	3-20 95	9:24 AM	G		Plant Inlet	✓	✓						✓	
ISS 6	3-20 95	11:55 AM	C		Instantaneous Surface Sample Probe 6	✓	✓					✓		
ISS 25	3-20 95	11:52 AM	C		Instantaneous Surface Sample Area 25	✓	✓					✓		

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES By Products	3-20-95	12:50 PM
RECEIVED BY:	[illegible]	L.A. By PROD.	3-20-95	12:50 PM
RELINQUISHED BY:	[illegible]	L.A. By PROD	3-20-95	1:10 PM
RECEIVED BY:	[illegible]	CALSCIENCE	3-20-95	1:10 P.M.
RELINQUISHED BY:	[illegible]	CALSCIENCE	3-20-95	16:00
RECEIVED BY:	[illegible]	Calscience	3/20/95	1600

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EXHIBIT E

Documentation for Annual Requirements

First Quarter, 1995

PENROSE LANDFILL

Landfill Gas Generation

YEAR	Estimated Generation (BTU)	Collection Efficiency	Collected (BTU)
ACTUAL:			
1988	533,722	85.00%	453,664
1989	507,036	85.78%	434,912
990	481,684	83.78%	403,572
991	457,600	78.25%	358,055
1992	434,720	83.57%	363.291
1993	412,984	85.00%	389,842
1994	395,045	85.00%	335,788
PROJECTED:			
1995	375,293	85.00%	318,999
1996	356,528	85.00%	303,049
1997	338,702	85.00%	287,896
1998	321,767	85.00%	273,502
1999	305,679	85.00%	259,827
2000	290,394	85.00%	246,835
2001	275,875	85.00%	234,493
2002	262,081	85.00%	222,769
2003	248,977	85.00%	211,630
2004	236,528	85.00%	201,049

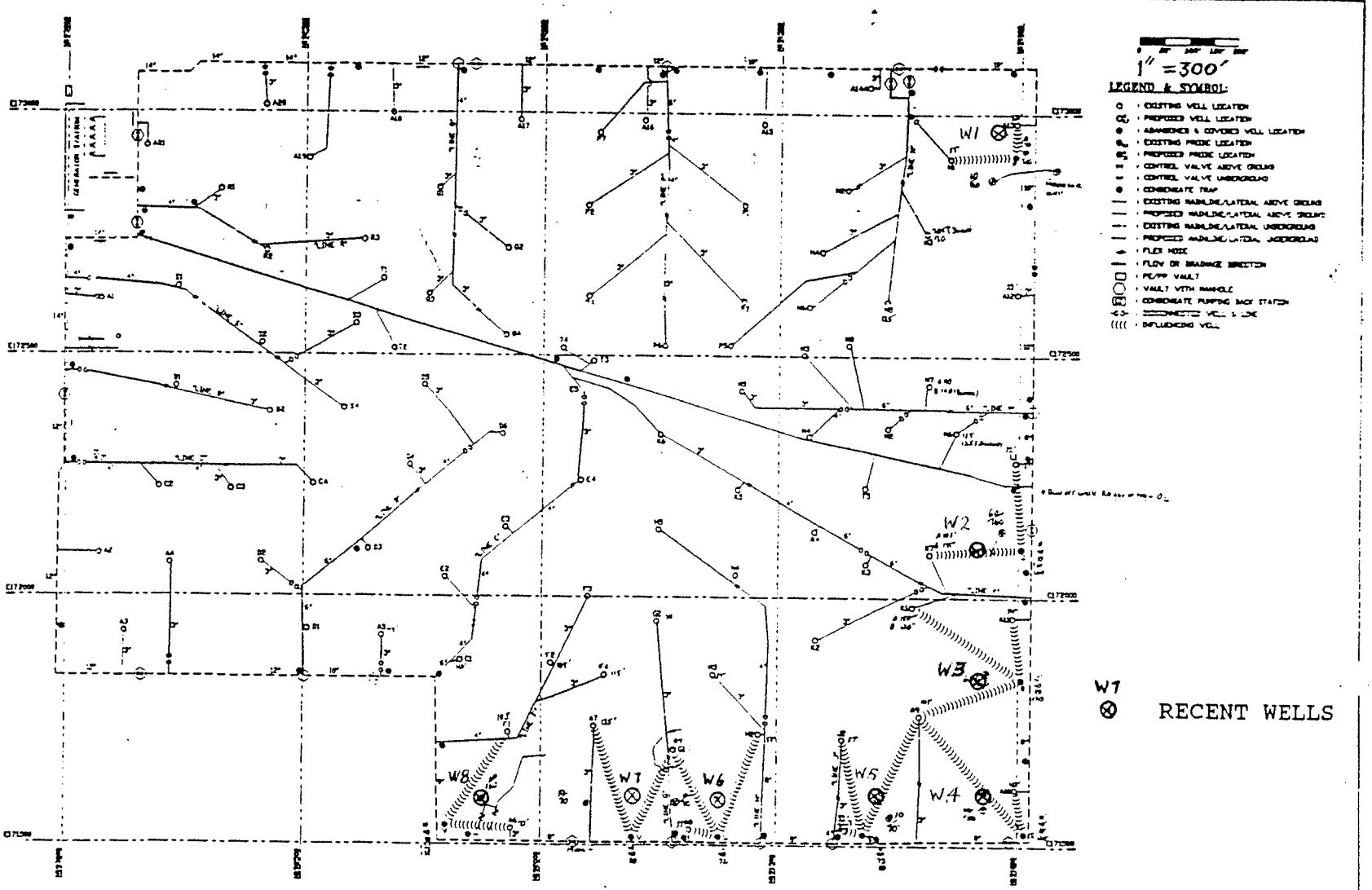
NOTES:

(1) The amount of landfill gas collected during the years 1988 through 1994 represents the actual amount of (Penrose) landfill gas burned at the Penrose electrical generation facility.

(2) The estimate of landfill gas being generated is based on an assumed 85% collection efficiency and an average decline in the generation of 5% each year.

(3) The 5% decline in landfill gas generation is based on Pacific Energy's experience with other landfills and the average annual gas generation decline, based on historical collection rates at Penrose.

(4) The "Projected" portion of this table was computer generated by Methane Specialists based on Pacific Energy's projection method. The "Actual" portion of this table are values from Pacific Energy.



PENROSE GAS COLLECTION SYSTEM

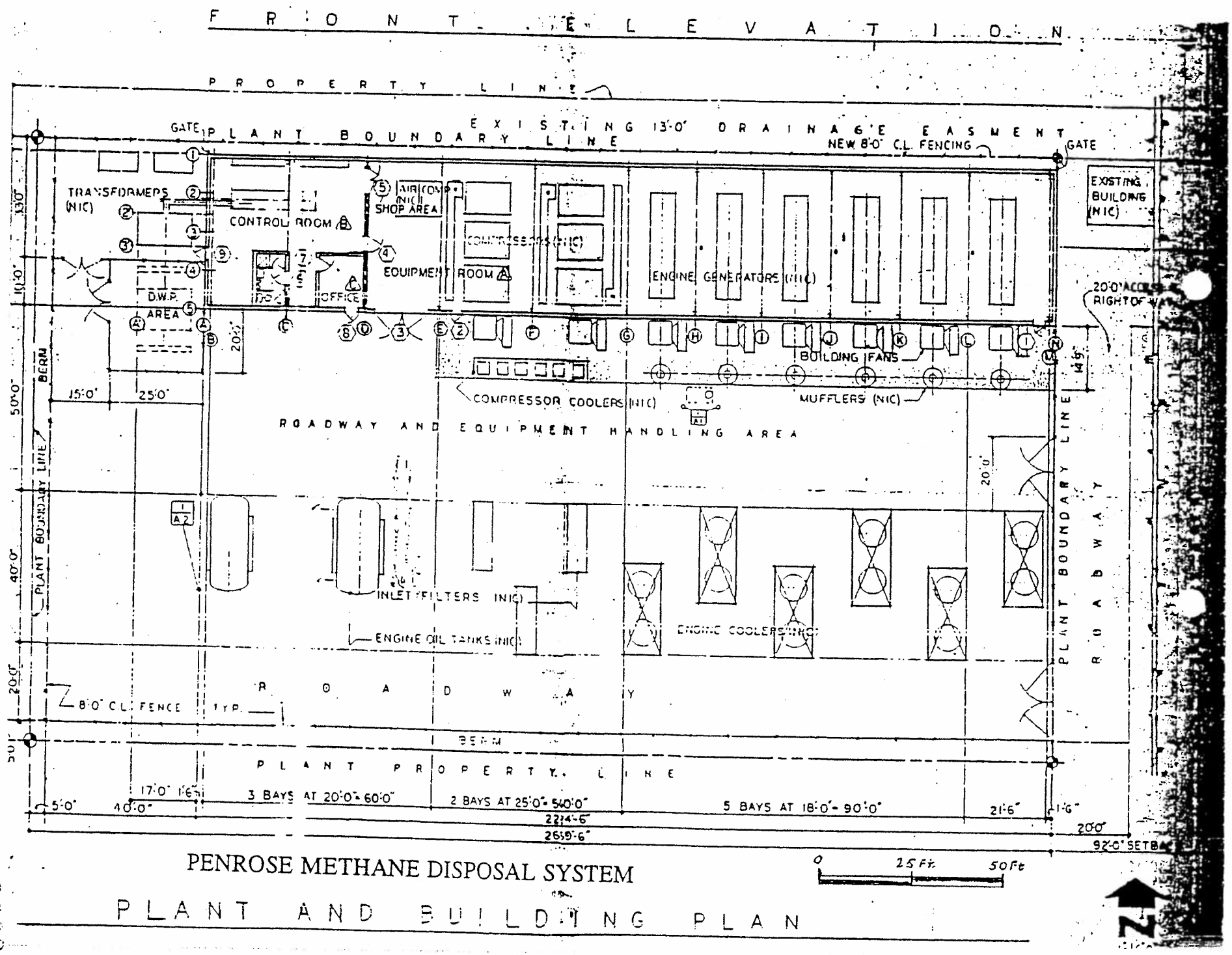
WELL PLAN/PRODUCTION MAINLINE

B	REVISED	T.V.C	1/31/94
A	INITIAL	T.V.C	12/16/92

PACIFIC ENERGY
5055 E. WASHINGTON BLVD, COMMERCE, CA. 90040
DRAWN T.V.C CHECK APPR DATE 12/16/92 TOP-V1

PENROSE SANITARY LANDFILL
TOPOGRAPHY/SITE PLAN &
WELL LOCATION/PRODUCTION MAINLINE

D-7280-TP-001 SHEET 1 OF 1 SCALE 1"=300' REV. B



PENROSE METHANE DISPOSAL SYSTEM

PLANT AND BUILDING PLAN

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002239

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Sepich Associates Inc.

METHANE SPECIALISTS

3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362

TEL (818) 707-3036
(805) 373-9321

FAX (818) 707-3012
(805) 373-8987

January 11, 1995

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Fourth Quarter, 1994
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the fifth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October - December, 1994. Monitoring and sampling for this report were performed on October 7, 10, 19, and 21; November 4, 14, 15, and 29; and December 12, 13, 16, and 22, 1994.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

General:

To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements pending results from initial monitoring. The Rule also requires plant inlet gas analyses on a quarterly basis and simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B, Table I for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring paths A and B). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection a of 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

General:

During this past monitoring period, October through December 1994, perimeter probe monitoring was conducted on October 7, October 21, November 4, November 29, December 13, and December 22, 1994; and instantaneous surface monitoring was conducted on October 10, November 14, and December 12, 1994. Perimeter probe, power plant inlet, and integrated surface samples were collected for laboratory analysis on October 19, November 15, and December 16, 1994.

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on October 7, October 21, November 4, November 29, December 13, and December 22, 1994 was conducted by Smith-Emery personnel using a Bacharach H Combustible Gas Detector. Probe sampling was conducted by Los Angeles By-Products personnel on October 19, November 15, and December 16, 1994.

Tedlar bag samples were collected using the direct pump sampling procedure. The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Stanton, California, within 24 hours of sampling.

Perimeter probe sampling was conducted at Probe Q on October 19, November 15, and December 16, 1994. A map of probe locations can be found in Exhibit A and perimeter probe monitoring data sheets are included in Exhibit C.

B.2 Integrated Surface Sampling

Integrated surface sampling was conducted on October 19, November 15, and December 16, 1994 by focusing sampling efforts in zones where previously conducted instantaneous surface monitoring had found high TOC concentrations. During instantaneous surface monitoring on October 10, and November 14, 1994, no detectable TOC readings registered on the Foxboro #128 organic vapor analyzer (OVA). A minimum of two integrated surface samples are required, even if no instantaneous emissions > 500 ppmv are found. In October, two areas, Areas 3 and 4 were selected for the integrated sampling (in May 1994 these areas had yielded instantaneous surface monitoring anomalies). On November 15, 1994, Areas 40 and 41 were randomly selected for integrated samples. On December 16, 1994 areas Q and R were sampled (the perimeter probes in these areas occasionally yield TOC readings).

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. TOC and hydrogen sulfide readings were taken before submitting the samples to the laboratory. A map showing the areas of integrated surface sampling is included in Exhibit A.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring was conducted on October 10, November 14, and December 12, 1994. In October and November no areas had detectable TOC readings. On December 12, 1994 Area G yielded an OVA TOC reading of 3 ppmv and Area 19 yielded an OVA TOC of 2 ppmv. No other detectable levels of TOC were recorded. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling

10-liter bag samples were collected from the Pacific Energy electrical generation plant input pipeline on October 19, November 15, and December 16, 1994.

B.6 Reporting Requirements

This is the fifth in a series of quarterly reports for Penrose Landfill. Los Angeles By-Products hereby solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

General: Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring had been performed bi-monthly by Smith-Emery Company. Their mid-month data was used to select the monthly probe sampling stations and the end-of-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

October 7, 1994 monitoring results showed the highest combustible gas readings at Probe Q (12% @ 40' and 4% @ 10'). October 1994 perimeter probe data is summarized in Table I. One other probe yielded a detectable combustible gas reading (Probe R, 2% @ 10').

Table I - October 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON October 19, 1994

Probe Number	Screen Depth (feet)	Field Values 10/7/94 1530 hr. (% Vol)	Field Values 10/19/94 1030 hr. (% Vol)	Lab Results 10/19/94 1030 hr. (% Vol)	Field Values 10/21/94 1600 hr. (% Vol)
Q	10'	4%	NC	NC	2%
Q	40'	12%	ND	.0214%	16%
R	10'	2%	NC	NC	ND

Note: Laboratory samples were collected 10/19/94. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected. ND None detected.

November 4, 1994 monitoring results showed the highest combustible gas readings at Probe Q (6% @ 80' and 2% @ 40'). November 1994 perimeter probe data is summarized in Table II. No other probes yielded detectable combustible gas readings on November 4, 1994.

Table II - November 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON November 15, 1994

Probe Number	Screen Depth (feet)	Field Values 11/4/94 1530 hr. (% Vol)	Field Values 11/15/94 1105 hr. (% Vol)	Lab Results 11/15/94 1105 hr. (% Vol)	Field Values 11/29/94 1530 hr. (% Vol)
Q	40'	2%	NC	NC	ND
Q	80'	6%	ND	0.00233%	8%

Note: Laboratory samples were collected 11/15/94. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected. ND None detected.

December 13, 1994 monitoring results showed the highest combustible gas readings at Probe Q (4% @ 120' and 2% @ 40'). December 1994 perimeter probe data is summarized in Table III. No other probes yielded detectable combustible gas readings on December 13, 1994.

Table III - December 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON December 13, 1994

Probe Number	Screen Depth (feet)	Field Values 12/13/94 1600 hr. (% Vol)	Field Values 12/16/94 1150 hr. (% Vol)	Lab Results 12/16/94 1150 hr. (% Vol)	Field Values 12/22/94 1530 hr. (% Vol)
Q	40'	2%	NC	NC	2%
Q	120'	4%	ND	0.00178%	ND

Note: Laboratory samples were collected 12/16/94. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected. ND None detected.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane and total NMHC by ASTM Method 3416M and/or for "fixed gases" by SCAQMD Method 25.1, and for VOC by EPA Method TO-14. The following table summarizes the analytical results for methane and NMHC for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FOURTH QUARTER 1994
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA		CH_4 (PPMV)	NMHC (PPMV)
10/19/94	AREA 3	4.74	2.0
11/15/94	AREA 40	7.13	1.33
11/15/94	AREA 41	13.9	1.0
12/16/94	AREA Q	3.18	56.4
12/16/94	AREA R	3.00	44.4

Note: Sample Areas are shown on a map in Exhibit A.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, no OVA readings above 500 ppmv were detected during the Fourth Quarter of 1994 (the only OVA readings above ND were 2 ppmv detected near Probe #19 and 3 ppmv detected near Probe G on December 12).

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results for the samples collected at the plant inlet were 37.6% methane in October, 44.1% methane in November, and 42.4 % methane in December. Analytical results for fixed gases, NMHC, and core group toxic air contaminants are included in Exhibit D.

Los Angeles By-Products hereby solicits any SCAQMD comments regarding procedures and reports for this project. If you have any questions or would like some additional supporting data or documentation please call us at (818)-707-3036.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the current monitoring and laboratory results, mitigation measures are being implement as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
JUN. 30 1996
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.605/atf

Public Facilities Branch / SCAQMD January 11, 1995

(1 copy submitted)

Distribution: Los Angeles By-Products Company

- Mr. Mike McAllister

  City of Los Angeles, Department of Environmental Affairs

- Ms. Tania Weaver

Enclosures:

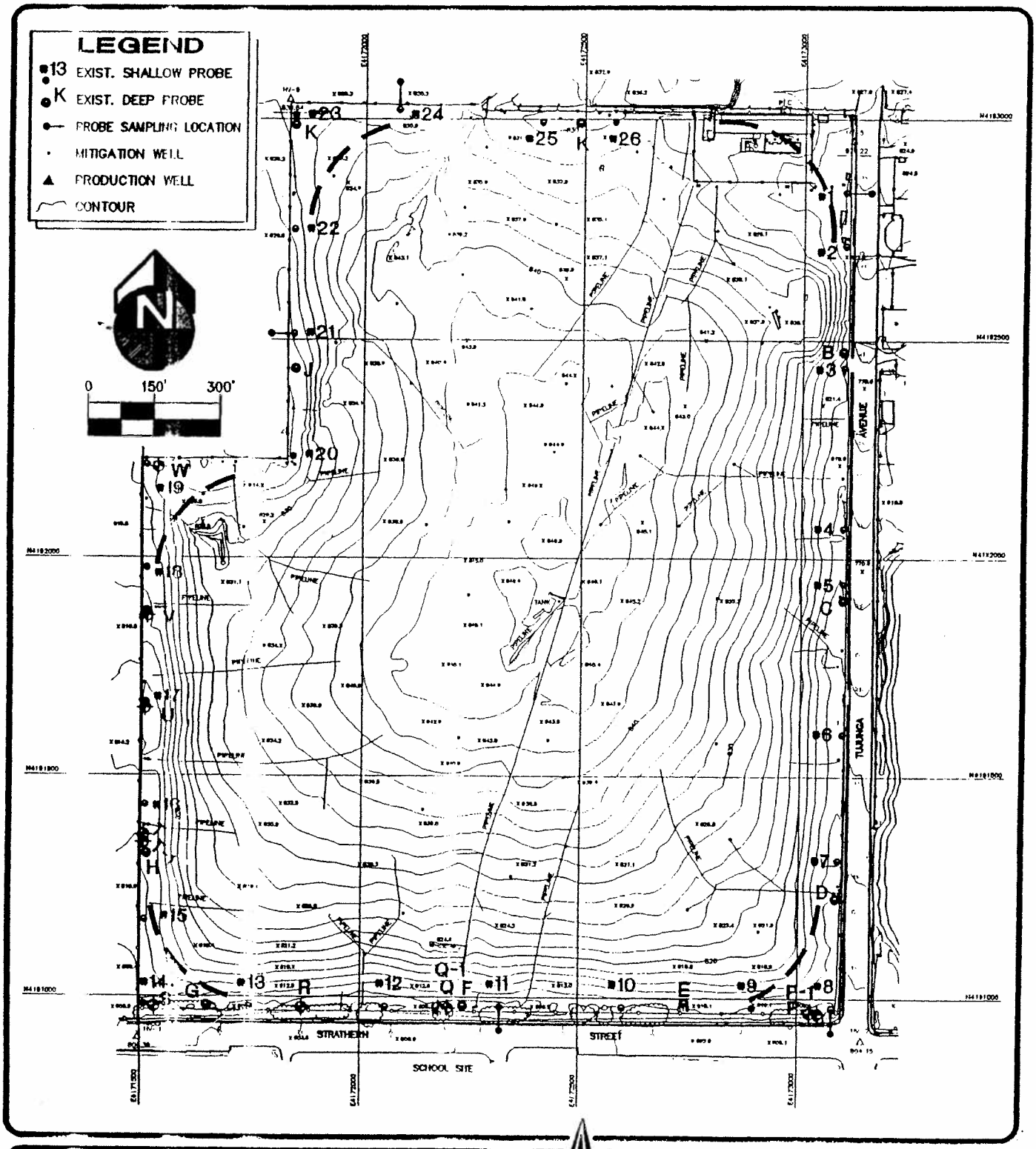
- EXHIBIT A: Penrose Landfill Maps - Probe Location Map, Integrated Surface Sampling Map and Traverse Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Reports and Data - Fourth Quarter, 1994
- EXHIBIT D: Laboratory Analytical Results - Fourth Quarter, 1994

EXHIBIT A

Penrose Landfill Maps

- Probe Location Map
- Integrated Surface Sampling Map
- Traverse Maps

PENROSE LANDFILL
WELL AND PROBE LOCATIONS



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12/1/94 J152-WPL

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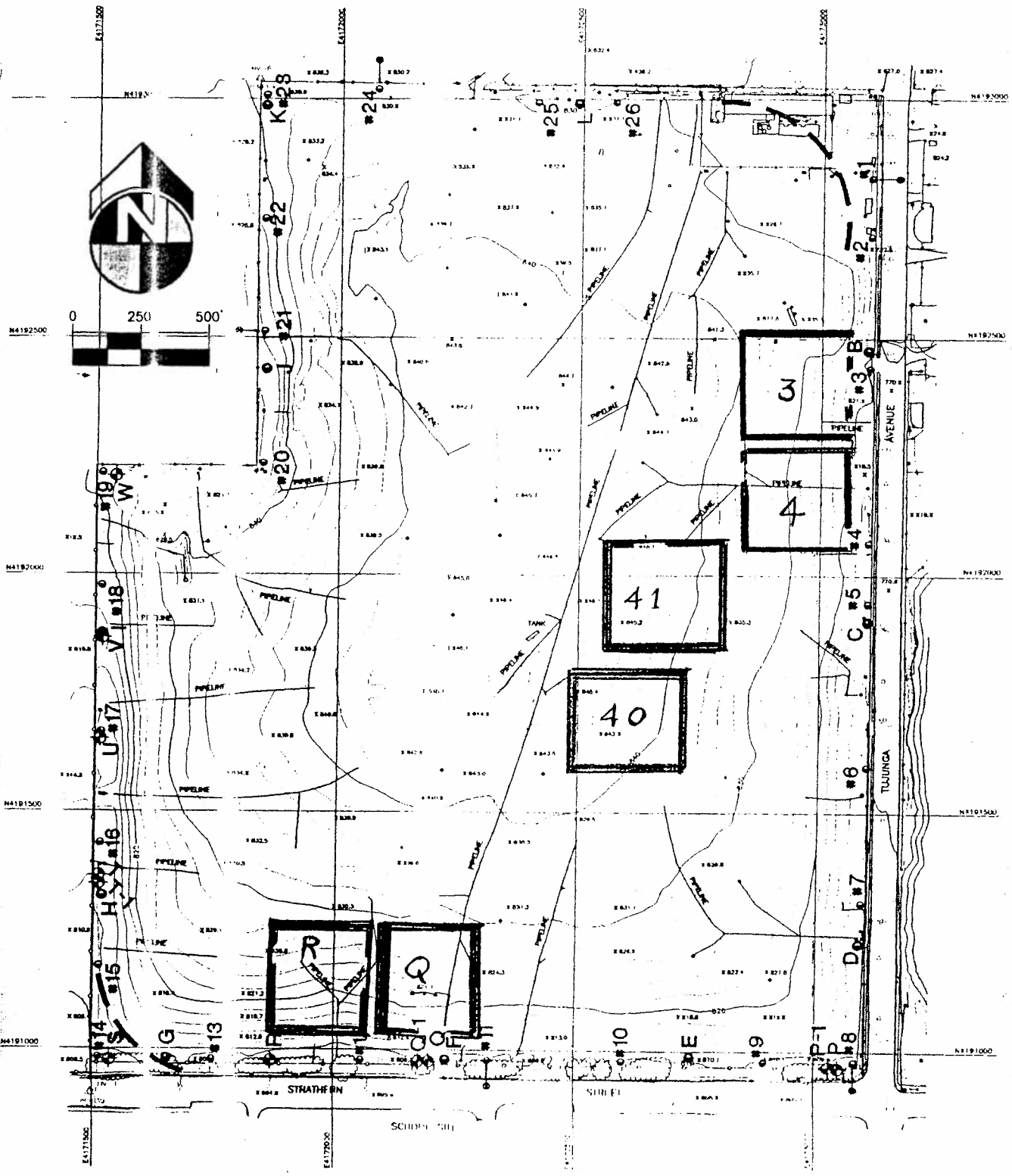

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PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING

SAMPLING DATE 4th Quarter '94 SAMPLER Robert McAllister SHEET ___ OF

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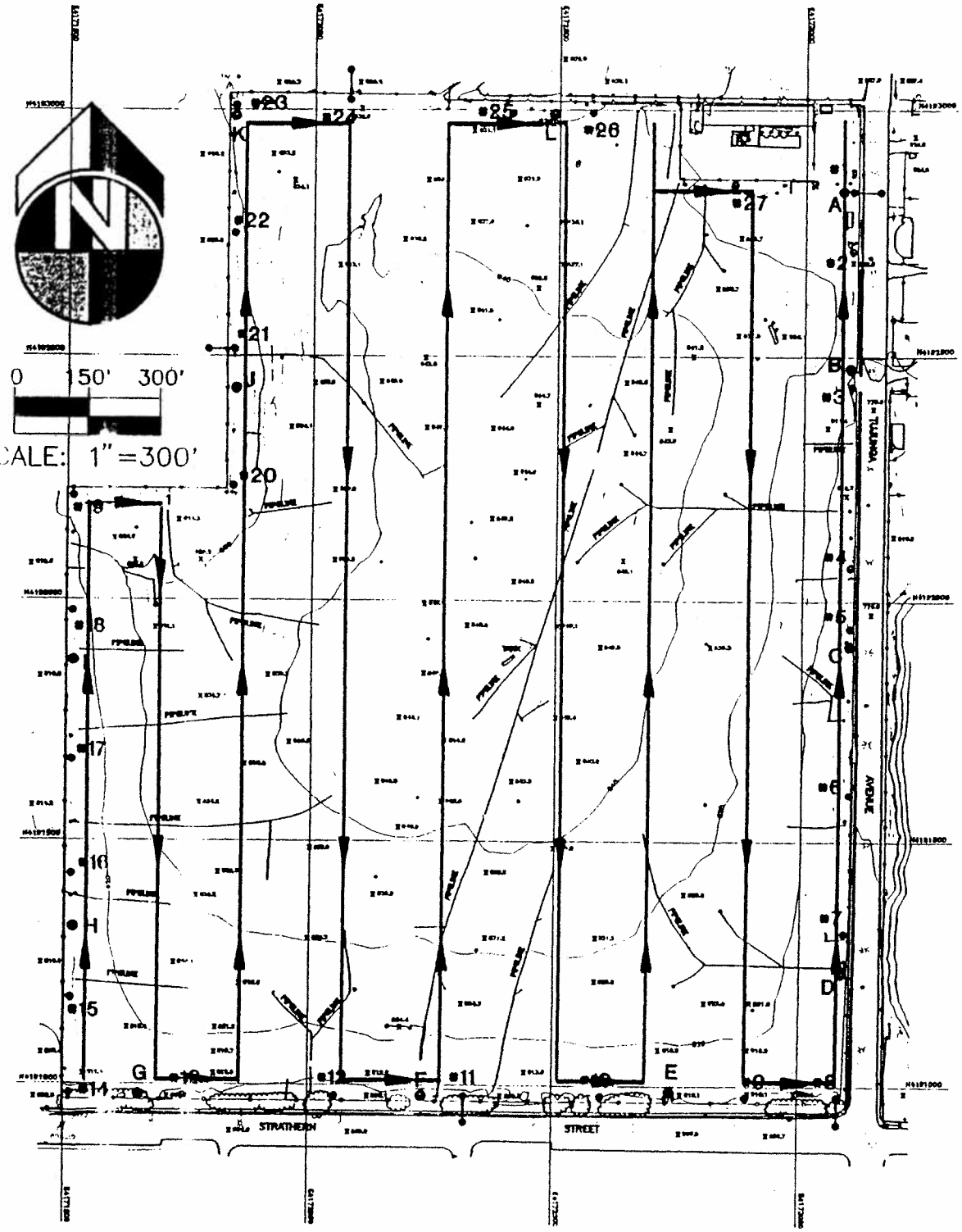
INSTANTANEOUS SURFACE MONITORING



PATH A

Drawing prepared by:

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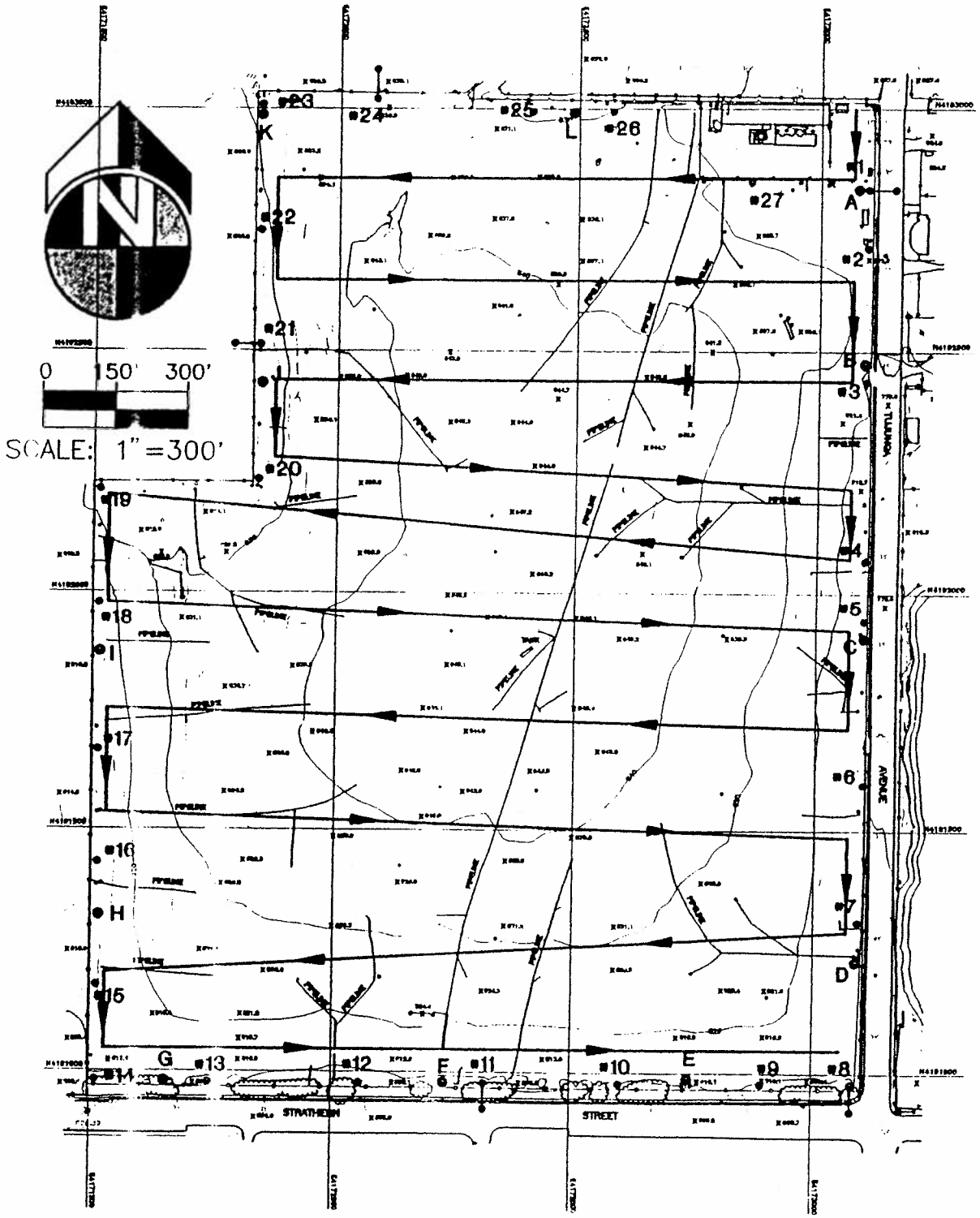
INSTANTANLOUS SURFACL MONITORING



PATH B

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EXHIBIT B

Core Group Toxic Air Contaminants

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TABLE 1: TOXIC AIR CONTAMINANTS -- CORE GROUP

1. Acetonitrile CH_3CN
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1 Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2 Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1 Dichloroethene (Vinylidene Chloride) $CH_2:CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C:CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1 Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichloroethylene $CHCl:CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2:CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT C

Field Reports and Data - Fourth Quarter, 1994

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The Full Service Independent Testing Laboratory, Established 1904

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Los Angeles By Products
Attn: C. D. Van Gorden
1810 East 25th Street
Los Angeles, CA 90058

October 19, 1994
PTM 1 10/94

FILE NO: 6022

LAB NO: 4287153900

SAMPLE: On 10/07/94 at 15:00, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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Los Angeles By-Products
Attn: G.D. Van Gorden
1810 East 25th Street
Los Angeles, CA 90058

October 19, 1994

FILE NO: 6022

LAB NO: 4287153900

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	4	@ 120'	ND	@ 10'	2	@ 10'	ND
@ 40'	12	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

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JOB NAME: Penrose

JOB No. 3152-6
DATE 10/10/94

INSPECTION REPORT

CLIMATE: bright / clear / fog / cloudy / overcast / rain | <32° F / 33°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F | still / breeze / wind | dry / moderate / humid

LOCATION: Penrose

PURPOSE: Instantaneous Surface Monitor ISM 10/94

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was hot with clear skies. ~~with~~ last recorded precipitation ocurred on Oct. 4, 1994. The FoxBoro 128 was used as the OVA instrument, which was last calibrated on 10/10/94 at 7:00 AM. Path A was followed by contractor. The monitor began at 9:17 AM and was completed at 11:28 AM with a Result of ND. There was No detectable wind recorded by an electronic wind speed indicator.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

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JOB NAME: Penrose

JOB No. 3752-G
DATE 10/19/94

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: Penrose

PURPOSE: ISS, PPS and TSI 10/94

CONTRACTOR(S): Robert McAllister

REMARKS: The weather was warm with clear skies and a slight breeze of 2.8-3.5 mph. The wind velocity was determined by a electronic wind speed indicator. The OVA instrument used was a FOXBORO 128 and the last calibration was Oct 19, 94' @ 7:00 AM The H_2S levels were determined by Dräger tubes and pump. The Combustable gas meter was last calibrated on Oct 19, 94'. All air samples were collected in 10 liter tedlar bags which were then placed into a Black trashbag to protect from sunlight. The ISS samples were collected by a portable self-

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 5152-6
DATE 10/19/94

REMARKS CONTINUED:

contained unit with its own internal power supply source.

The first air sample #3 was taken at 8:31 AM and resulted with ND in both OVA and TOC tests. The second ISS air Sample was taken at 9:11 AM, #4 which resulted with ND in both OVA and TOC tests. Both samples recorded ND for H_2S tests.

The PPS, Q 40', was taken at 10:26 AM and resulted with ND in both TOC and OVA tests. The TSI sample was collected at 10:42 AM which resulted with a TOC level of 45% and H_2S level of 140 ppm. The PPS ~~was~~ followed a five minute purging period of the well, and resulted with ND in H_2S test.

INSPECTOR

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PENROSE LANDFILL

Date Oct. 19, 94

Job # 5152.6

GAS CONCENTRATIONS

INITIALS	RM	
TIME	8:31 AM	10:42 AM
INSTRUMENT	FOXBORO 128	TOC
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
ISS 3	ND	ND
ISS 4	ND	ND

REMARKS: Cool temperatures, no clouds under slight wind.

PPM2 10/94
ISS
TSI

PROBE #					
B					
C	GREEN-21'				
	YELLOW-41'				
	ORANGE-61'				
	RED-81'				
D					
E					
F					
G					
H					
I	GREEN-17'				
	YELLOW-37'				
	ORANGE-57'				
	RED-77'				
J					
K					
L	GREEN-45'				
	YELLOW-65'				
	ORANGE-85'				
	RED-105'				
M					
N	GREEN-22'				
	YELLOW-45'				
	ORANGE-68'				
	RED-90'				
P	10'				
	40'				
	80'				
P-1	120'				

PROBE #		Toc	H_2S
Q	10'		
	40'	ND	ND
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	45%	110

Dreager Tube

For: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS
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Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

October 28, 1994

PPM3 10/94

FILE NO: 70237

LAB NO: 4300063600

SAMPLE: On 10/21/94 at 15:30, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 E. Washington Blvd.
Commerce, CA 90040

October 28, 1994

Page 2

FILE NO: 70237

LAB NO: 4300063600

(1) Site G	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	6
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	2	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	16	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	5			@ 80'	ND	@ 80'	2
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. C.D. Van Gorden

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Los Angeles By Products
Attn: C. D. Van Gorden
1810 East 25th Street
Los Angeles, CA 90058

November 16, 1994

FILE NO: 6022

LAB NO: 4319115200

SAMPLE: On 11/04/94 at 15:00, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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Los Angeles By-Products
Attn: C.D. Van Garden
1810 East 25th Street
Los Angeles, CA 90058

November 16, 1994

FILE NO: 6022

LAB NO: 4319115200

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Ol	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	2	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	6			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3030 (805) 373-9571
FAX: (818) 707-3012 (805) 373-8887

JOB NAME: Penrose

JOB No. 3152-6

DATE 11/14/94

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain; <32° F, 33°-55°, 56°-70°, (71°-85°), 86°-100°, >100° F; still, breeze, wind; dry, moderate, humid

LOCATION: Penrose

PURPOSE: Instantaneous Surface Monitor ISM 11/94

CONTRACTOR(S): ROBERT McAllister

REMARKS: The contractor followed Path B in the monitor which began at 8:52 Am and completed at 10:48 Am. The OVA instrument used was the FOXBORO 128 which was last calibrated on 11/14/94 at 7:00 AM. The wind speed of 1.7 mph was detected by an electronic wind speed indicator. The result of the monitor was ND.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET OF

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3016 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: Penrose

JOB No. 5-152-6
DATE 11/15/94

INSPECTION REPORT

CLIMATE: (bright) clear fog; cloudy overcast rain; <32° F, 32°-55°, 56°-70°, 71°-85°, (86°-100°), >100° F; (still) breeze wind; (dry) moderate humid

LOCATION: Penrose Landfill

PURPOSE: Instantaneous Surface Sample, PPM and Plant Inlet SAMPLES
ISS, PPM, TSI: 11/94

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was warm with high clouds and a small breeze of 0-1-1 mph. The OVA instrument used in the tests of ISS samples was the FOXBORO 128 and was last calibrated on 11/15/94. H_2S levels of Samples were detected with the use of Dräger tubes and pump. Wind speed was detected with an electronic Wind Speed indicator. The Combustable gas meter was last calibrated on 11/15/94. All air samples were taken in 10 liter tedlar bags and placed in a black trash bag to protect from Sunlight. Last recorded precipitation was October 4, 1994.

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET 1 OF 2

SEPICH ASSOCIATES, Inc.
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: Penrose

JOB No. J152-6
DATE 11/15/94

REMARKS CONTINUED:

The first ISS sample #40 was taken at 9:23 AM which resulted in a ND by both TOC and OVA tests. The second ISS sample #41 was taken at 10:27 AM which resulted with ND in both TOC and OVA tests. Both ISS samples were collected with a portable self-contained unit with its own internal power source, an integrated sampler. Both ISS had ND with H_2S.

The PPS was taken at 11:05 AM at probe Q 80' which resulted in ND in both the TOC level and H_2S level. The probe was first purged for 4 minutes before sample was taken.

The TSI sample was taken at 11:35 AM which resulted in a TOC level of 45% and H_2S at 125 ppm.

The ISS samples were gathered at approximately 400-450 cc/min.

Robert M. Allen
INSPECTOR

PRINCIPAL

SHEET 2 OF 2

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 11/15/94
Job #5152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME	9:23 AM – 11:35 AM	
INSTRUMENT	FOXBORO	TOC
PARAMETER		

REMARKS: 0-1 mph. wind. High Clouds. 155, PPM2, TSI 11/94

PROBE #			PROBE #			PROBE #		TOC	H2S
1						Q	10'		
2			B				40'		
3			C	GREEN-21'			80'~~75'~~	ND	ND
4				YELLOW-41'		Q-1	120'		
5				ORANGE-61'			158'		
6				RED-81'		R	10'		
7			D				40'		
8			E				80'		
9			F				120'		
10			G			S	10'		
11			H				40'		
12			I	GREEN-17'			80'		
13				YELLOW-37'			120'		
14				ORANGE-57'		T	10'		
15				RED-77'			40'		
16			J				73'		
17			K			T-1	72'		
18			L	GREEN-46'		U	10'		
19				YELLOW-66'			37'		
20				ORANGE-85'			68'		
21				RED-105'		V	10'		
22			M				40'		
23			N	GREEN-22'			73'		
24				YELLOW-45'		W	10'		
25				ORANGE-68'			40'		
26				RED-90'			80'		
ISS 40	ND	ND	P	10'			120'		
ISS 41	ND	ND		40'			158'		
				80'			TSI	45%	#125 ppm
			P-1	120'					

METHANE SPECIALISTS WESTLAKE V... CA. 91362 TEL: (818) 707-3036 FAX: (818) 707-3012 (805) 373-9321 (805) 373-8922

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Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

December 8, 1994

PPM 3 11/94
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FILE NO: 70237

LAB NO: 4339081400

SAMPLE: On 11/29/94 at 15:00, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 E. Washington Blvd.
Commerce, CA 90040

December 8, 1994

RECEIVED
DEC 1 . 1994
L.A. BY-PROD. CO.

FILE NO: 70237

LAB NO: 4339081400

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	6
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	2	@ 120'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	8			@ 80'	ND	@ 80'	2
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. C.D. Van Gorden

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WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8967

JOB NAME: PENROSE

JOB No. J152-6
DATE 12/12/94

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain | <32° F / 71°-85° / 33°-55° / 86°-100° / 56°-70° / >100° F | (illegible) / breeze / wind | dry / moderate / humid

LOCATION: PENROSE

PURPOSE: OVA, Integrated Surface Sample ISMI 12/94

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was COLD with thick clouds overhead, but ND ~~wind~~ by an electronic wind speed indicator. The OVA instrument used in monitor was the FOXBORO 128 which was last calibrated on 12/12/94 at 7:00 AM. The monitor began at 8:01 AM and concluded at 10:19 AM. The H_2 pressure of instrument was 1300 psi. The monitor resulted with ND on the pathway of 'A' except for area labelled near probe G at 3 ppm, and area near probe 19 at 2 ppm. Last precipitation was over 72 hours prior to monitor.

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Robert McAllister
INSPECTOR

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Los Angeles By Products
Attn: C. D. Van Gorden
1810 East 25th Street
Los Angeles, CA 90058

December 27, 1994

FILE NO: 6022

LAB NO: 4349094200

SAMPLE: On 12/13/94 at 15:30, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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Los Angeles By-Products
Attn: C.D. Van Gorden
1810 East 25th Street
Los Angeles, CA 90058

December 27, 1994

Page 2

FILE NO: 6022

LAB NO: 4349094200

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site O	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	ND	@ 120'	4	@ 10'	ND	@ 10'	ND
@ 40'	2	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

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TEL: (818) 707-3046 (805) 373-9321
FAX: (818) 707-3017 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6
DATE 12/16/94

INSPECTION REPORT

CLIMATE: (sunny) cloudy / (rain) overcast / fog / rain

< 32° F / 32°–55° / 56°–70° / 71°–85° / (86°–100°) / >100° F

(still) / breeze / wind

dry / (moderate) / humid

LOCATION: Penrose

PURPOSE: ISS and PPS, TSI sample + PPS 12/14

CONTRACTOR(S): Robert McAllister

REMARKS: The weather was very warm with no wind and few clouds overhead. The OVA instrument used was the FOXBORO 128 which was last calibrated on 12/16/94 at 7:00 AM. The TOC tests used a Combustable gas meter which was last calibrated on 12/16/94. The H_2S tests used Drager tubes and a Drager pump.

The first ISS was collected at 9:33 AM. This sample labelled 'Q' resulted in ND with OVA and H_2S tests. The second ISS, 'R' was collected at 9:51 AM and resulted in

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9121
FAX: (818) 707-3012 (805) 373-6887

JOB NAME: PENROSE

JOB No. 3152-6
DATE 12/16/94

REMARKS CONTINUED:

ND for H_2S and OVA. Both ISS samples were collected with a portable self-contained unit with its own internal power supply at approximately 400 cc/min.

The TSI sample was collected at 11:18 with a TOC of ≈35% and H_2S level of 70 ppm.

The PPS, Q 120', was collected at 11:52 AM and resulted in ND with H_2S and TOC. The probe had been purged for more than 5 minutes before collection of sample.

All samples were collected in 10-liter tedlar bags and stored in a Black plastic bag for protection against Sunlight. Last recorded Rainfall had been more than 72 hours prior to Sample Collections and tests. There was no detection of wind by an electronic wind speed indicator.

Robert [illegible]
INSPECTOR

[redacted]
PRINCIPAL

SHEET 2 OF 2

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Los Angeles By-Products Co.
Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 12/16/94

Job # J152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME		Draeger Tube
INSTRUMENT	OVA	H_2S
PARAMETER		
PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
ISS 'Q'	ND	ND
ISS 'R'	ND	ND

REMARKS: No Wind - HOT temperature and No Clouds.

IS [illegible]

PROBE #											
	B										
C	GREEN-21'										
	YELLOW-41'										
	ORANGE-61'										
	RED-81'										
	D										
	E										
	F										
	G										
	H										
I	GREEN-17'										
	YELLOW-37'										
	ORANGE-57'										
	RED-77'										
	J										
	K										
L	GREEN-45'										
	YELLOW-65'										
	ORANGE-85'										
	RED-105'										
	M										
N	GREEN-22'										
	YELLOW-45'										
	ORANGE-68'										
	RED-90'										
P	10'										
	40'										
	80'										
P-1	120'										

PROBE #		TOC	H_2S
Q	10'		
	40'		
	75'		
Q-1	120'	ND	ND
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	TSI	35%	70 ppm

SCHICH ASSOCIATES, INC.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3035 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8985

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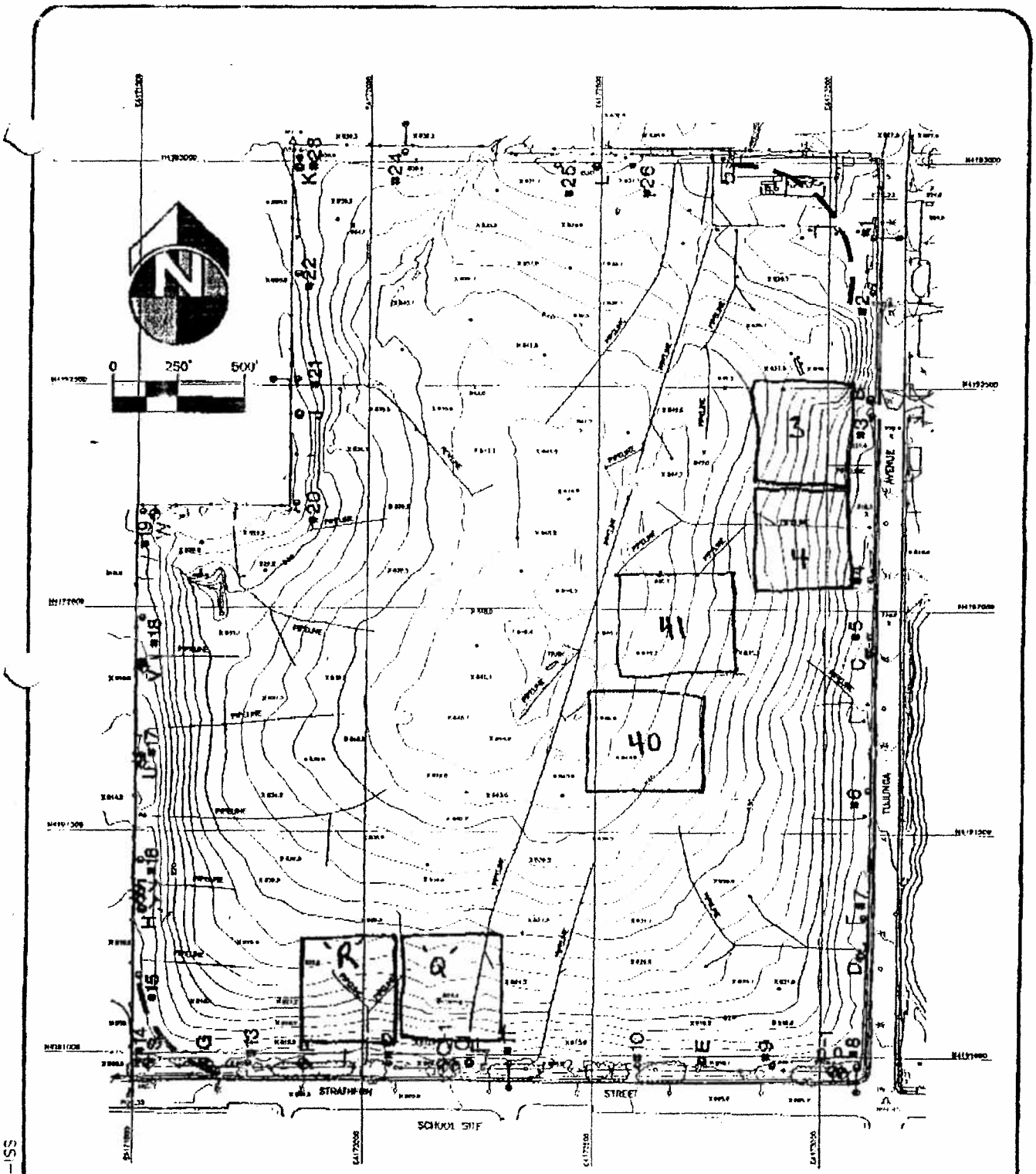

SEPICH ASSOCIATES
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987
CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING

SAMPLING DATE _____ SAMPLER _____ SHEET ___ OF ___

5/2/94 Z-ISS

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SMITH EMERY COMPANY
The Full Service Independent Testing Laboratory, Established 1901

East Washington Boulevard, P.O. Box 880550, Panter's Point Shipyard Bldg. 114, 7 East La Palma Avenue

• Los Angeles, California 90021 • (213) 749-3111 • Fax: (213) 746-7228
• San Francisco, California 94188 • (415) 330-9000 • Fax: (415) 330-9030
• Anaheim, California 92807 • (714) 693-1036 • Fax: (714) 693-1034

Pacific Lighting Energy Systems
Attn: Vicki Castle
0855 East Washington Blvd.
Commerce CA 90040

January 5, 1995

FILE NO: 70237

LAB NO: 436113-1300

SAMPLE: On 12/22/94 at 15:15, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

ALL OPINIONS AND INTERPRETATIONS ARE BASED ON INFORMATION SUPPLIED BY THE CLIENT AND ARE CONFIDENTIAL PROPERTY. NEITHER ALL NOR PART OF THIS REPORT SHALL BE PUBLISHED OR REPRODUCED BY THE CLIENT WITHOUT THE PRIOR WRITTEN CONSENT OF SMITH EMERY COMPANY. THIS REPORT PERTAINS TO THE SAMPLE(S) TESTED ONLY. TRADEMARKS AND TRADE NAMES ARE NOT TO BE USED IN CONNECTION WITH THIS REPORT WITHOUT THE PRIOR WRITTEN CONSENT OF SMITH EMERY COMPANY. ALL RIGHTS ARE RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.

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Box 880550, Hunter's Point Shipyard Bldg. 114
East La Palma Avenue

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• San Francisco, California 94185 • (415) 330-3000 • Fax: (415) 330-5030
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Pacific Lighting Energy Systems
Attn: Vicki Castle
055 E. Washington Blvd.
Commerce, CA 90040

January 5, 1995

Page 2

FILE NO: 70237

LAB NO: 43611-1300

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	2
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site O	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
10'	2	@ 120'	ND	@ 10'	ND	@ 10'	ND
40'	2	@ 160'	ND	@ 40'	ND	@ 40'	ND
80'	4			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

* Sample sites are NOT clearly marked
** Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. C.D. Van Gorden

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Public Facilities Branch / SCAQMD January 11, 1995

EXHIBIT D

Laboratory Analytical Results - Fourth Quarter, 1994

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

LA By Products/Sepich & Associates	Date Sampled:	10/19/94
3817 East Thousand Oaks Blvd., Suite 303	Date Received:	10/19/94
Westlake Village, CA 91362	Date Analyzed:	10/20/94
	Work Order No.:	94-10-305
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: 3

Analyte	Concentration	Reportable Limit
Methane	4.74	1.0
TGNMO	2	1.0

Sample Number: Q 40'

Methane	2140	1.0
TGNMO	12.4	1.0

Sample Number: Plant Inlet

Oxygen	29300	1000
Nitrogen	282000	1000
Methane	376000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	350000	1000
TGNMO	642	1.0

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ANALYTICAL REPORT

LA By Products/Sepich & Associates	Date Sampled:	10/19/94
3817 East Thousand Oaks Blvd., Suite 303	Date Received:	10/19/94
Westlake Village, CA 91362	Date Analyzed:	10/20/94
	Work Order No.:	94-10-305
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank #1

Analyte	Concentration	Reportable Limit
Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
TGNMO	ND	1.0

Sample Number: Method Blank #2

Methane	ND	1.0

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ANALYTICAL REPORT

LA By Products/Sepich & Associates	Date Sampled:	10/19/94
3817 East Thousand Oaks Blvd., Suite 303	Date Received:	10/19/94
Westlake Village, CA 91362	Date Analyzed:	10/20/94
	Work Order No.:	94-10-305
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Plant Inlet (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limit%
Oxygen	29300	24000	20	0 - 25
Nitrogen	282000	266000	6	0 - 25
Methane	376000	388000	3	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	350000	357000	2	0 - 25
TGNMO	642	682	6	0 - 25

Reviewed and Approved William H. Christensen on 10/31/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

LA By Products/Sepich & Associates	Date Sampled:	10/19/94
3817 East Thousand Oaks Blvd., Suite 303	Date Received:	10/19/94
Westlake Village, CA 91362	Date Analyzed:	10/22/94
	Work Order No.:	94-10-305
Attn: Alex Feucht	Method:	EPA TO-14
RE: Penrose Landfill/J152-6	Page 1 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: 3

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.4
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.4
Methylene Chloride	ND	0.4
1,1-Dichloroethane	ND	0.4
Chloroform	ND	0.4
1,2-Dichloroethane	ND	0.4
1,1,1-Trichloroethane	2.54	0.4
Benzene	2.06	0.4
Carbon Tetrachloride	ND	0.4
Trichloroethene	1.15	0.4
Toluene	39.2	0.4
Tetrachloroethene	0.58	0.4
Chlorobenzene	ND	0.4
Benzyl Chloride	ND	0.4
1,3-Dichlorobenzene	ND	0.4
1,4-Dichlorobenzene	1.38	0.4
1,2-Dichlorobenzene	ND	0.4
Total Xylenes	10.5	0.8

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

LA By Products/Sepich & Associates	Date Sampled:	10/19/94
3817 East Thousand Oaks Blvd., Suite 303	Date Received:	10/19/94
Westlake Village, CA 91362	Date Analyzed:	10/22/94
	Work Order No.:	94-10-305
Attn: Alex Feucht	Method:	EPA TO-14
RE: Penrose Landfill/J152-6	Page 2 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: 4

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.4
Acetonitrile	ND	1.0
1,1-Dichloroethene	ND	0.4
Methylene Chloride	ND	0.4
1,1-Dichloroethane	ND	0.4
Chloroform	ND	0.4
1,2-Dichloroethane	ND	0.4
1,1,1-Trichloroethane	2.03	0.4
Benzene	2.46	0.4
Carbon Tetrachloride	ND	0.4
Trichloroethene	1.51	0.4
Toluene	37.7	0.4
Tetrachloroethene	0.89	0.4
Chlorobenzene	ND	0.4
Benzyl Chloride	ND	0.4
1,3-Dichlorobenzene	ND	0.4
1,4-Dichlorobenzene	2.10	0.4
1,2-Dichlorobenzene	ND	0.4
Total Xylenes	17.7	0.8

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

LA By Products/Sepich & Associates	Date Sampled:	10/19/94
3817 East Thousand Oaks Blvd., Suite 303	Date Received:	10/19/94
Westlake Village, CA 91362	Date Analyzed:	10/22/94
	Work Order No.:	94-10-305
Attn: Alex Feucht	Method:	EPA TO-14
RE: Penrose Landfill/J152-6	Page 3 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: Q 40'

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	100
Acetonitrile	ND	250
1,1-Dichloroethene	ND	100
Methylene Chloride	ND	100
1,1-Dichloroethane	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	ND	100
Benzene	ND	100
Carbon Tetrachloride	ND	100
Trichloroethene	ND	100
Toluene	ND	100
Tetrachloroethene	ND	100
Chlorobenzene	ND	100
Benzyl Chloride	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100
Total Xylenes	ND	200

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ANALYTICAL REPORT

LA By Products/Sepich & Associates	Date Sampled:	10/19/94
3817 East Thousand Oaks Blvd., Suite 303	Date Received:	10/19/94
Westlake Village, CA 91362	Date Analyzed:	10/22/94
	Work Order No.:	94-10-305
Attn: Alex Feucht	Method:	EPA TO-14
RE: Penrose Landfill/J152-6	Page 4 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: Plant Inlet

Analyte	Concentration	Reportable Limit
Vinyl Chloride	500	100
Acetonitrile	ND	250
1,1-Dichloroethene	ND	100
Methylene Chloride	ND	100
1,1-Dichloroethane	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	327	100
Benzene	936	100
Carbon Tetrachloride	ND	100
Trichloroethene	1170	100
Toluene	11300	100
Tetrachloroethene	242	100
Chlorobenzene	747	100
Benzyl Chloride	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	209	100
1,2-Dichlorobenzene	ND	100
Total Xylenes	19500	200

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ANALYTICAL REPORT

LA By Products/Sepich & Associates	Date Sampled:	10/19/94
3817 East Thousand Oaks Blvd., Suite 303	Date Received:	10/19/94
Westlake Village, CA 91362	Date Analyzed:	10/22/94
	Work Order No.:	94-10-305
Attn: Alex Feucht	Method:	EPA TO-14
RE: Penrose Landfill/J152-6	Page 5 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Vinyl Chloride	ND	0.2
Acetonitrile	0.93	0.5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	6.16	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	ND	0.2
Toluene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2
Total Xylenes	ND	0.4

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

LA By Products/Sepich & Associates	Date Sampled:	10/19/94
3817 East Thousand Oaks Blvd., Suite 303	Date Received:	10/19/94
Westlake Village, CA 91362	Date Analyzed:	10/22/94
	Work Order No.:	94-10-305
Attn: Alex Feucht	Method:	EPA TO-14
RE: Penrose Landfill/J152-6	Page 6 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: Plant Inlet (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limit%
Vinyl Chloride	500	478	4	0 - 30
Acetonitrile	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	ND	ND	NA	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 - 30
1,1,1-Trichloroethane	327	341	4	0 - 30
Benzene	936	847	10	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	1170	1220	4	0 - 30
Toluene	11300	10100	11	0 - 30
Tetrachloroethene	242	268	10	0 - 30
Chlorobenzene	747	774	4	0 - 30
Benzyl Chloride	ND	ND	NA	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	209	270	25	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30
Total Xylenes	19500	18300	6	0 - 30

Reviewed and Approved William H. Christensen on 10/31/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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(305)

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JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES	J152-6	10/19/94

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	CORE GROUP (150.1)	NMHC	CH_4	[illegible]				TOC	REMARKS
3	10/19/94	8:30 AM	C		Instantaneous Surface Sample	✓	✓							
4	10/19/94	9:11 AM	C		Instantaneous Surface Sample	✓								
Q40	10/19/94	10:24	G		Probe Sample	✓	✓							
Plant Inlet	10/19/94	10:16 AM	G		Plant Inlet Sample	✓	✓		✓					

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	[illegible]	10/19/94	11:05 AM
RECEIVED BY:	[illegible]	[illegible]	[illegible]	11:05 AM
RELINQUISHED BY:	[illegible]	[illegible]	[illegible]	11:57 AM
RECEIVED BY:	[illegible]	CEL	[illegible]	11:57 AM
RELINQUISHED BY:				
RECEIVED BY:				

002040

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd, Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/16/94
	Work Order No.:	94-11-285
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS 40

Analyte	Concentration	Reportable Limit
Methane	7.13	1.0
TGNMO	1.33	1.0

Sample Number: ISS 41

Methane	13.9	1.0
TGNMO	1.0	1.0

Sample Number: Method Blank

Methane	ND	1.0
TGNMO	ND	1.0

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd, Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/16/94
	Work Order No.:	94-11-285
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Sample Number: 94-11-283-4 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Methane	2970	2960	1	0 - 25
TGNMO	359	361	1	0- 25

Reviewed and Approved William H. Christensen on 11/28/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd, Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/17/94
	Work Order No.:	94-11-285
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 1 of 4	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: ISS 40		
Vinyl Chloride	ND	0.40
Acetonitrile	106	1.00
1,1-Dichloroethene	ND	0.40
Methylene Chloride	19.6	0.40
1,1-Dichloroethane	ND	0.40
Chloroform	ND	0.40
1,2,-Dichloroethane	ND	0.40
1,1,1-Trichloroethane	2.80	0.40
Benzene	1.13	0.40
Carbon Tetrachloride	ND	0.40
Trichloroethene	ND	0.40
Toluene	27.6	0.40
Tetrachloroethene	ND	0.40
Chlorobenzene	ND	0.40
Total Xylenes	8.97	0.80
Benzyl Chloride	ND	0.40
1,3-Dichlorobenzene	ND	0.40
1,4-Dichlorobenzene	2.09	0.40
1,2-Dichlorobenzene	ND	0.40

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd, Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/17/94
	Work Order No.:	94-11-285
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 2 of 4	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: ISS 41		
Vinyl Chloride	ND	0.40
Acetonitrile	117	1.00
1,1-Dichloroethene	ND	0.40
Methylene Chloride	26.6	0.40
1,1-Dichloroethane	ND	0.40
Chloroform	ND	0.40
1,2,-Dichloroethane	ND	0.40
1,1,1-Trichloroethane	1.65	0.40
Benzene	1.11	0.40
Carbon Tetrachloride	ND	0.40
Trichloroethene	ND	0.40
Toluene	20.5	0.40
Tetrachloroethene	ND	0.40
Chlorobenzene	ND	0.40
Total Xylenes	5.77	0.80
Benzyl Chloride	ND	0.40
1,3-Dichlorobenzene	ND	0.40
1,4-Dichlorobenzene	2.74	0.40
1,2-Dichlorobenzene	ND	0.40

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd, Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/17/94
	Work Order No.:	94-11-285
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 3 of 4	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Vinyl Chloride	ND	0.2
Acetonitrile	4.12	0.5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	ND	0.5
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2,-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	ND	0.2
Toluene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	ND	0.4
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd, Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/17/94
	Work Order No.:	94-11-285
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 4 of 4	

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 94-11-299-1 (Duplicate)				
Vinyl Chloride	ND	ND	NA	0 - 30
Acetonitrile	4770	5010	5	0 - 30
1,1-Dichloroethene	381	378	1	0 - 30
Methylene Chloride	64	60.7	5	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2,-Dichloroethane	ND	ND	NA	0 - 30
1,1,1-Trichloroethane	ND	ND	NA	0 - 30
Benzene	1490	1500	1	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	156	176	12	0 - 30
Toluene	7160	7140	0	0 - 30
Tetrachloroethene	232	226	3	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30
Total Xylenes	13800	13600	1	0 - 30
Benzyl Chloride	2290	2240	2	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved William H. Christensen on 11/28/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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JOB NAME: PENROSE LANDFILL [redacted] Integrated Surface Samples

FILE (JOB#): J152-6

DATE: 11/15/94

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS
J152-6	11/15 94	9:23 AM	C	1	ISS 40	✓	✓	✓						
J152-6	11/15 94	10:27 AM	C	1	ISS 41	✓	✓	✓						

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	11/15/94	12:15pm
RECEIVED BY:	[illegible]	LOS ANGELES BY PRODUCTS	11-15-94	12:15 PM
RELINQUISHED BY:	[illegible]	LOS ANGELES BY PRODUCTS	11-15-94	1:34 PM
RECEIVED BY:	Rey [illegible]	CEL	11-15-94	1:34 P.M
RELINQUISHED BY:	Rey [illegible]	CEL	11-15-94	15:35
RECEIVED BY:	[illegible]	CEL	11-15-94	1535

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/16/94
	Work Order No.:	94-11-284
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Q 80'

Analyte	Concentration	Reportable Limit
Oxygen	42900	1000
Nitrogen	785000	1000
Carbon Dioxide	146000	1000
Methane	23.3	1.0
Carbon Monoxide	ND	2.0
TGNMO	28.6	1.0

Sample Number: TSI

Oxygen	9850	1000
Nitrogen	181000	1000
Carbon Dioxide	400000	1000
Methane	441000	1000
Carbon Monoxide	ND	1000
TGNMO	702	1.0

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/16/94
	Work Order No.:	94-11-284
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank #1

Analyte	Concentration	Reportable Limit
Oxygen	ND	1000
Nitrogen	ND	1000
Carbon Dioxide	ND	1000
Methane	ND	1.0
Carbon Monoxide	ND	2.0
TGNMO	ND	1.0

Sample Number: Method Blank #2

Methane	ND	1000
Carbon Monoxide	ND	1000

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/16/94
	Work Order No.:	94-11-284
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Sample Number: 94-11-283-4 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Oxygen	179000	178000	1	0 - 25
Nitrogen	785000	783000	1	0 - 25
Carbon Dioxide	33600	33500	1	0 - 25
Methane	2970	2960	1	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
TGNMO	359	361	1	0 - 25

Reviewed and Approved William H. Christensen on 11/28/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/17/94
	Work Order No.:	94-11-284
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 1 of 4	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Q 80'		
Vinyl Chloride	ND	100
Acetonitrile	ND	250
1,1-Dichloroethene	ND	100
Methylene Chloride	ND	100
1,1-Dichloroethane	ND	100
Chloroform	106	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	ND	100
Benzene	ND	100
Carbon Tetrachloride	ND	100
Trichloroethene	ND	100
Toluene	ND	100
Tetrachloroethene	ND	100
Chlorobenzene	ND	100
Total Xylenes	ND	200
Benzyl Chloride	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/17/94
	Work Order No.:	94-11-284
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 2 of 4	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Vinyl Chloride	ND	100
Acetonitrile	5020	250
1,1-Dichloroethene	ND	100
Methylene Chloride	101	100
1,1-Dichloroethane	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	4410	100
Benzene	1490	100
Carbon Tetrachloride	ND	100
Trichloroethene	306	100
Toluene	14500	100
Tetrachloroethene	285	100
Chlorobenzene	1370	100
Total Xylenes	18500	200
Benzyl Chloride	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	324	100
1,2-Dichlorobenzene	ND	100

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/17/94
	Work Order No.:	94-11-284
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 3 of 4	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Vinyl Chloride	ND	0.2
Acetonitrile	4.12	0.5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	ND	0.5
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	ND	0.2
Toluene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	ND	0.4
Benzyl Chloride	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

L.A. By Products/Sepich & Associates	Date Sampled:	11/15/94
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	11/15/94
Westlake Village, CA 91362	Date Analyzed:	11/17/94
	Work Order No.:	94-11-284
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 4 of 4	

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 94-11-299-1 (Duplicate)				
Vinyl Chloride	ND	ND	NA	0 -30
Acetonitrile	4770	5010	5	0 - 30
1,1-Dichloroethene	381	378	1	0 - 30
Methylene Chloride	64	60.7	5	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 - 30
1,1,1-Trichloroethane	ND	ND	NA	0 - 30
Benzene	1490	1500	1	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	156	176	12	0 - 30
Toluene	7160	7140	0	0 - 30
Tetrachloroethene	232	226	3	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30
Total Xylenes	13800	13600	1	0 - 30
Benzyl Chloride	2290	2240	2	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved William H. Christensen on 11/28/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	11/15/94

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY:

ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC						Fixed Gas	REMARKS
J152-6	11/15/94	11:05 AM	G	1	Q 80'	✓	✓							
J152-6	11/15/94	11:35 AM	G	1	TSI	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	11/15/94	12:15 PM
RECEIVED BY:	[illegible]	LOS ANGELES BY PRODUCTS	11-15-94	12:15 PM
RELINQUISHED BY:	[illegible]	LOS ANGELES BY PRODUCTS	11-15-94	1:34 PM
RECEIVED BY:	[illegible]	CEL	11-15-94	1:34 P.M.
RELINQUISHED BY:	[illegible]	CEL	11-15-94	15:35
RECEIVED BY:	[illegible]	CEL	11/15/94	1535

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	12/16/94
c/o John Sepich Associates, Inc.	Date Received:	12/16/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	12/19/94
Westlake Village, CA 91363		
	Work Order No.:	94-12-371
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 1 of 6	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: TSI		
Vinyl Chloride	ND	50
Acetonitrile	ND	125
1,1-Dichloroethene	ND	50
Methylene Chloride	ND	125
1,1-Dichloroethane	66.6	50
Chloroform	ND	50
1,2-Dichloroethane	ND	50
1,1,1-Trichloroethane	ND	50
Benzene	1970	50
Carbon Tetrachloride	ND	50
Trichloroethene	1550	50
Toluene	20500	50
Tetrachloroethene	646	50
Chlorobenzene	3780	50
Total Xylenes	35500	100
Benzyl Chloride	ND	50
1,3-Dichlorobenzene	ND	50
1,4-Dichlorobenzene	3410	50
1,2-Dichlorobenzene	363	50

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	12/16/94
c/o John Sepich Associates, Inc.	Date Received:	12/16/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	12/19/94
Westlake Village, CA 91363		
	Work Order No.:	94-12-371
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 2 of 6	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Q120		
Vinyl Chloride	26.0	10
Acetonitrile	ND	25
1,1-Dichloroethene	ND	10
Methylene Chloride	ND	25
1,1-Dichloroethane	ND	10
Chloroform	82.1	10
1,2-Dichloroethane	ND	10
1,1,1-Trichloroethane	ND	10
Benzene	19.9	10
Carbon Tetrachloride	ND	10
Trichloroethene	ND	10
Toluene	241	10
Tetrachloroethene	111	10
Chlorobenzene	28.7	10
Total Xylenes	1120	20
Benzyl Chloride	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	101	10
1,2-Dichlorobenzene	23.5	10

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	12/16/94
c/o John Sepich Associates, Inc.	Date Received:	12/16/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	12/19/94
Westlake Village, CA 91363		
	Work Order No.:	94-12-371
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 3 of 6	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Q		
Vinyl Chloride	ND	0.4
Acetonitrile	72.1	1.0
1,1-Dichloroethene	ND	0.4
Methylene Chloride	3.90	1.0
1,1-Dichloroethane	ND	0.4
Chloroform	ND	0.4
1,2-Dichloroethane	ND	0.4
1,1,1-Trichloroethane	4.79	0.4
Benzene	2.91	0.4
Carbon Tetrachloride	ND	0.4
Trichloroethene	ND	0.4
Toluene	29.4	0.4
Tetrachloroethene	0.65	0.4
Chlorobenzene	ND	0.4
Total Xylenes	45.5	0.8
Benzyl Chloride	3.47	0.4
1,3-Dichlorobenzene	1.80	0.4
1,4-Dichlorobenzene	1.82	0.4
1,2-Dichlorobenzene	ND	0.4

11631 [illegible]aboard Circle, Sta[illegible] [illegible] 89[illegible] [illegible] FAX: (714) 894-7501

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	12/16/94
c/o John Sepich Associates, Inc.	Date Received:	12/16/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	12/19/94
Westlake Village, CA 91363		
	Work Order No.:	94-12-371
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 4 of 6	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: R		
Vinyl Chloride	ND	0.4
Acetonitrile	101	1.0
1,1-Dichloroethene	ND	0.4
Methylene Chloride	5.61	1.0
1,1-Dichloroethane	ND	0.4
Chloroform	ND	0.4
1,2-Dichloroethane	ND	0.4
1,1,1-Trichloroethane	5.98	0.4
Benzene	3.28	0.4
Carbon Tetrachloride	ND	0.4
Trichloroethene	ND	0.4
Toluene	25.3	0.4
Tetrachloroethene	0.95	0.4
Chlorobenzene	ND	0.4
Total Xylenes	36.2	0.8
Benzyl Chloride	ND	0.4
1,3-Dichlorobenzene	ND	0.4
1,4-Dichlorobenzene	2.23	0.4
1,2-Dichlorobenzene	ND	0.4

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ANALYTICAL REPORT

L.A. By Products	Date Sampled:	12/16/94
c/o John Sepich Associates, Inc.	Date Received:	12/16/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	12/19/94
Westlake Village, CA 91363		
	Work Order No.:	94-12-371
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 5 of 6	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Vinyl Chloride	ND	0.2
Acetonitrile	1.78	0.5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	ND	0.5
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	ND	0.2
Toluene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Total Xylenes	ND	0.4
Benzyl Chloride	ND	0.5
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	12/16/94
c/o John Sepich Associates, Inc.	Date Received:	12/16/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	12/19/94
Westlake Village, CA 91363		
	Work Order No.:	94-12-371
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 6 of 6	

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: 94-12-379-3 (Duplicate)				
Vinyl Chloride	ND	ND	NA	0 - 30
Acetonitrile	3370	3870	14	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	ND	ND	NA	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 - 30
1,1,1-Trichloroethane	ND	ND	NA	0 - 30
Benzene	143	135	6	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Trichloroethene	ND	ND	NA	0 - 30
Toluene	720	708	2	0 - 30
Tetrachloroethene	ND	ND	NA	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30
Total Xylenes	7500	7190	4	0 - 30
Benzyl Chloride	226	215	5	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30

Reviewed and Approved William H. Christensen on 01/04/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	12/16/94
c/o John Sepich Associates, Inc.	Date Received:	12/16/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	12/19/94
Westlake Village, CA 91363		
	Work Order No.:	94-12-371
Attn: Alex Feucht	Method:	ASTM 3416M
RE: Penrose Landfill/J152-6	Page 1 of 1	

Methane and total non-methane hydrocarbon concentration values contained herein are reported as methane in ppm (v/v).

Sample Number	CH_4 Concentration	Non-CH_4HC Concentration	Reportable Limit
TSI	NA	15300	12
Q120	17.8	288	3
Q	3.18	56.4	3
R	3.0	44.4	3
Method Blank	ND	ND	3

QA/QC

Sample Number: Q120 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
CH_4	17.8	17.1	4	0 - 30
Non-CH_4HC	288	261	10	0 - 30

Reviewed and Approved _____ on 01/04/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	12/16/94
c/o John Sepich Associates, Inc.	Date Received:	12/16/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	12/19/94
Westlake Village, CA 91363		
	Work Order No.:	94-12-371
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

All concentration values are reported in ppm (v/v).

Sample Number: TSI

Analyte	Concentration	Reportable Limit
Oxygen	10400	1000
Nitrogen	210000	1000
Methane	424000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	357000	1000

Sample Number: Method Blank

Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000

11631 Seaboard Circle, St. [illegible] FAX: (714) 894-7501

CONFIDENTIAL

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

L.A. By Products	Date Sampled:	12/16/94
c/o John Sepich Associates, Inc.	Date Received:	12/16/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	12/19/94
Westlake Village, CA 91363		
	Work Order No.:	94-12-371
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

All concentration values are reported in ppm (v/v).

QA/QC

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limits (%)
Sample Number: Laboratory Control Sample (Duplicate)				
Oxygen	210000	210000	0	0 - 25
Nitrogen	778000	778000	0	0 - 25
Methane	45.6	45.2	1	0 - 25
Carbon Monoxide	59.7	60.0	0	0 - 25
Carbon Dioxide	10900	10900	0	0 - 25

Reviewed and Approved William H. Christensen on 01/04/1995
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

(37)

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE & Instantaneous Surface Sample	J152-6	12-16-94

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

ROBERT McAllister — JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

	SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4					Fixed Gas	REMARKS: TOC	H_2S	D
1	TSI	12-16 94	11:30 Am	G	1	TSI Plant inlet	✓	✓						✓	35%	70ppm	
2	Q 120'	12-16 94	11:52 Am	G	1	PROBE	✓	✓							ND	ND	
3	Q	12-16 94	9:33 Am	C	1	Q ISS	✓	✓	✓						ND	ND	N
4	R	12-16 94	9:51 Am	C	1	R ISS	✓	✓	✓						ND	ND	N

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	12-16-94	12:15 pm.
RECEIVED BY:	Rey [illegible]	CALSCIENCE	12-16-94	12:15 P.M.
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:	Rey [illegible]	CALSCIENCE	12-16-94	14:20
RECEIVED BY:	M Patel	Calscience	12/16/94	2:30 pm

CONFIDENTIAI

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL (818) 707-3036 (805) 373-9321
FAX (818) 707-3012 (805) 373-8987

July 21, 1994

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Second Quarter, 1994
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the third quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period April - June, 1994. Monitoring and sampling for this report was performed on April 22, May 3, 11, 12, 16, and 26, June 13, 14, 22, and July 1, 1994.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements pending results from initial monitoring. The Rule also requires plant inlet gas analyses on a quarterly basis and simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B, Table I for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection a of 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, April through June 1994, field monitoring and sampling was conducted on April 22, May 3, May 11, May 12, May 19, May 26, June 13, June 14, June 22, June 23, and July 1, 1994. Perimeter probe and power plant inlet samples were collected for laboratory analysis on May 3, May 19, and June 22, 1994. Integrated surface samples were collected on May 12 and June 22, 1994. In April an attempt to conduct instantaneous surface monitoring was aborted on April 22, due to winds in excess of 5 miles per hour (mph). Wind and rain at the site delayed further attempts to monitor until May 11, 1994. Integrated surface sampling and mid-month perimeter probe monitoring were conducted on May 12, 1994. Because of the long delay, April instantaneous monitoring and integrated sampling were aborted and the May 11 and 12 monitoring and sampling were recorded as May 1994 requirements.

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on April 22, May 12, May 26, June 14, and June 23, 1994 was conducted by Smith-Emery personnel using a Bacharach H Combustible Gas Detector. Probe sampling was conducted by Los Angeles By-Products and Sepich Associates personnel on May 3, and May 19, 1994. Probe sampling was conducted by Los Angeles By-Products personnel on June 22 and July 1, 1994.

Tedlar bag samples were collected using the direct pump sampling procedure. The sample bags were labeled and then stored in a light-free environment. In May, samples and chain-of-custody documentation were delivered to Performance Analytical Inc. (PAI), a certified analytical laboratory in Canoga Park, California, within 24 hours of sampling. In June and July, samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Stanton, California, within 24 hours of sampling.

Perimeter probe sampling was conducted at Probes P, and Q on May 3, May 19, June 22, and July 1, 1994. A map of probe locations can be found in Exhibit A and perimeter probe monitoring data sheets are included in Exhibit C.

B.2 Integrated Surface Sampling

Integrated surface sampling was conducted on May 12 and June22, 1994, by focusing sampling efforts in zones where previously conducted instantaneous surface monitoring had found the highest TOC concentrations. During instantaneous surface monitoring on May 11, 1994, no areas had TOC greater than 500 ppmv. A minimum of two integrated surface samples are required, even if no instantaneous emissions <500 ppm are found. On May 12, 1994, the same two areas (Areas #P and # 4) sampled in February and March were sampled for integrated samples. On June 13, 1994 two areas yielded detectable readings on the Foxboro OVA. Those two areas were traversed on June 22, 1994 for the integrated sampling.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. Maps showing the areas of integrated surface sampling are included in Exhibit A.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring was conducted on May 11 and June 13, 1994. On May 11 no areas had TOC greater than 50 ppmv. On June 13 one areas had a TOC reading greater than 500 ppmv. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling

10-liter bag samples were collected from the Pacific Energy electrical generation plant input pipeline on May 3, May 19, and June 22, 1994.

B.6 Reporting Requirements

This is the third in a series of quarterly reports for Penrose Landfill. Los Angeles By-Products hereby solicts any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring had been performed bi-monthly by Smith-Emery Company. Starting in May, their mid-month data was used to select the monthly probe sampling stations and the end-of-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Performance Analytical Inc. and Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

April 22, 1994 monitoring results showed the five highest combustible gas readings at Probes P (58% @ 10', 62% @ 40', and 38% @ 80') and Q (44% @ 10' and 40% @ 40'). April 1994 perimeter probe data is summarized in Table I. Between April 19 and 27, 1994, Pacific Energy (PE) installed five mitigation wells approximately 80 feet from the edge of trash near Probes P, Q, R, S, and T.

Table I - April 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON April 22, 1994

Probe Number	Screen Depth (feet)	Field Values 4/22/94 (% Vol)	Field Values 5/03/94 (% Vol)	Lab Results 5/03/94 (% Vol)	Field Values 5/12/94 (% Vol)
P	10'	58%	ND	ND	ND
P	40'	62%	35%	33.4%	27%
P	80'	38%	ND	ND	ND
P	120'	10%	NC	NC	ND
Q	10'	44%	20%	24.2%	28%
Q	40'	40%	40%	45.1%	49%
Q	75'	8%	NC	NC	ND
Q	120'	2%	NC	NC	ND
S	10'	3%	NC	NC	ND
S	40'	3%	NC	NC	ND
S	80'	2%	NC	NC	ND
S	120'	3%	NC	NC	ND
T	10'	2%	NC	NC	ND
T	40'	5%	NC	NC	ND
T	80'	2%	NC	NC	ND
T-1	72'	6%	NC	NC	ND
U	68'	12%	NC	NC	ND
V	10'	2%	NC	NC	ND
V	40'	5%	NC	NC	ND
V	73'	5%	NC	NC	2%

Note: Laboratory samples were collected 5/3/94. Laboratory results are volume percent of methane. Field values are volume percent TOC. NC Readings or samples not collected. ND None detected

May 12, 1994 monitoring results showed the highest combustible gas readings at Probes P (27% @ 40') and Q (28% @ 10' and 49% @ 40'). May 1994 perimeter probe data is summarized in Table II. Only one other probe yielded a detectable combustible gas reading (Probe V @ 73' registered 2%). The low number of probes with VOC > 1% during the May 12, 1994 monitoring is probably the result of effectively controlling migration with the five new mitigation wells near Probes P, Q, R, S, and T. Pacific Energy is in the process of adjusting flows to manipulate migration along the perimeter of the landfill.

Table II - May 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON May 12, 1994

Probe Number	Screen Depth (feet)	Field Values 5/12/94 (% Vol)	Field Values 5/19/94 (% Vol)	Lab Results 5/19/94 (% Vol)	Field Values 5/26/94 (% Vol)
P	40'	27%	10%	9.76%	29%
Q	10'	28%	ND	0.23%	32%
Q	40'	49%	36%	40.10%	55%
V	73'	2%	NC	NC	ND

Note: Laboratory samples were collected 5/19/94. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected. ND None detected.

June 14, 1994 monitoring results showed the highest combustible gas readings at Probes P (44% @ 40', 8% @ 80', and 12% @ 120') and Q (28% @ 10' and 49% @ 40'). June 1994 perimeter probe data is summarized in Table III. Only three other probes yielded detectable combustible gas readings (2% @ 10' in Probe P, 2% @ 80' in Probe Q, and 2% @ 72' in Probe T-1).

Table III - June 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON June 14, 1994

Probe Number	Screen Depth (feet)	Field Values 6/14/94 (% Vol)	Field Values 7/1/94 (% Vol)	Lab Results 7/1/94 (% Vol)	Field Values 6/23/94 (% Vol)
P	10'	2%	NC	NC	2%
P	40'	44%	NC	0.27%	20%
P	80'	8%	NC	3.20%	ND
P	120'	12%	NC	3.36%	ND
Q	10'	28%	NC	0.00075%	25%
Q	40'	49%	NC	17.80%	32%
Q	80'	2%	NC	NC	ND
T-1	72'	2%	NC	NC	ND

Note: Laboratory samples were collected 7/1/94. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected. ND None detected.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane by SCAQMD Method 25.2 and by GC/TCD, for total NMHC by SCAQMD Method 25.2, and for VOC by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC for this quarter. VOC analytical results are included in Exhibit D.

Table IV - SECOND QUARTER 1994
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA		CH_4 (PPMV)	NMHC (PPMV)
5/12/94	AREA # P	1.7	<1.0
5/12/94	AREA # 4	2.7	<1.0
6/22/94	AREA A/B	304	16.4
6/22/94	AREA 18/19	14.9	13.6

Note: See Integrated Surface Sampling Map in Exhibit A for locations of areas traversed.

< = Less than the detection limit given.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, no OVA readings above 500 ppmv were detected on May 12, 1994 (no OVA readings above ND were detected). On June 13, 1994, two areas had detectable OVA readings. Area 18-19 had a reading of 34 ppmv and Area A-B had a reading of 1000 ppmv.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 41.3% methane for the on May 3, 1994 sample, 42.4% methane for the May 19, 1994 sample, and 40.4% for the June 22, 1994 sample collected at the plant inlet. Analytical results for fixed gases, NMHC, and core group toxic air contaminants are included in Exhibit D.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the current monitoring and laboratory results, mitigation measures are being implement as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3.

High methane readings in the probes have prompted Los Angeles By-Products Company and Pacific Energy to effect a mitigation well program. The eight mitigation wells were installed by early May 1994 at locations approximately 80 feet east of Probes V, U, and T, approximately 80 feet southeast of Probe W, and approximately 80 feet north of Probes P, Q, R, and S. Testing with the wells to control migration of methane at the probes is in progress and has been able to control methane levels at Probes T, U, and V. Well construction information and a well location map are included in Exhibit E.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

Alex T. Fracht
for John Sepich

John Sepich, P.E.
President

J152rept.603/atf

Public Facilities Branch / SCAQMD July 21, 1994

(1 copy submitted)

Distribution: Los Angeles By-Products Company

- Mr. Mike McAllister

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location Map, Integrated Surface Sampling Map and Traverse Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - Second Quarter, 1994
- EXHIBIT D: Laboratory Analytical Results - Second Quarter, 1994
- EXHIBIT E: Documentation of Mitigation Measures

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Public Facilities Branch / SCAQMD July 21, 1994

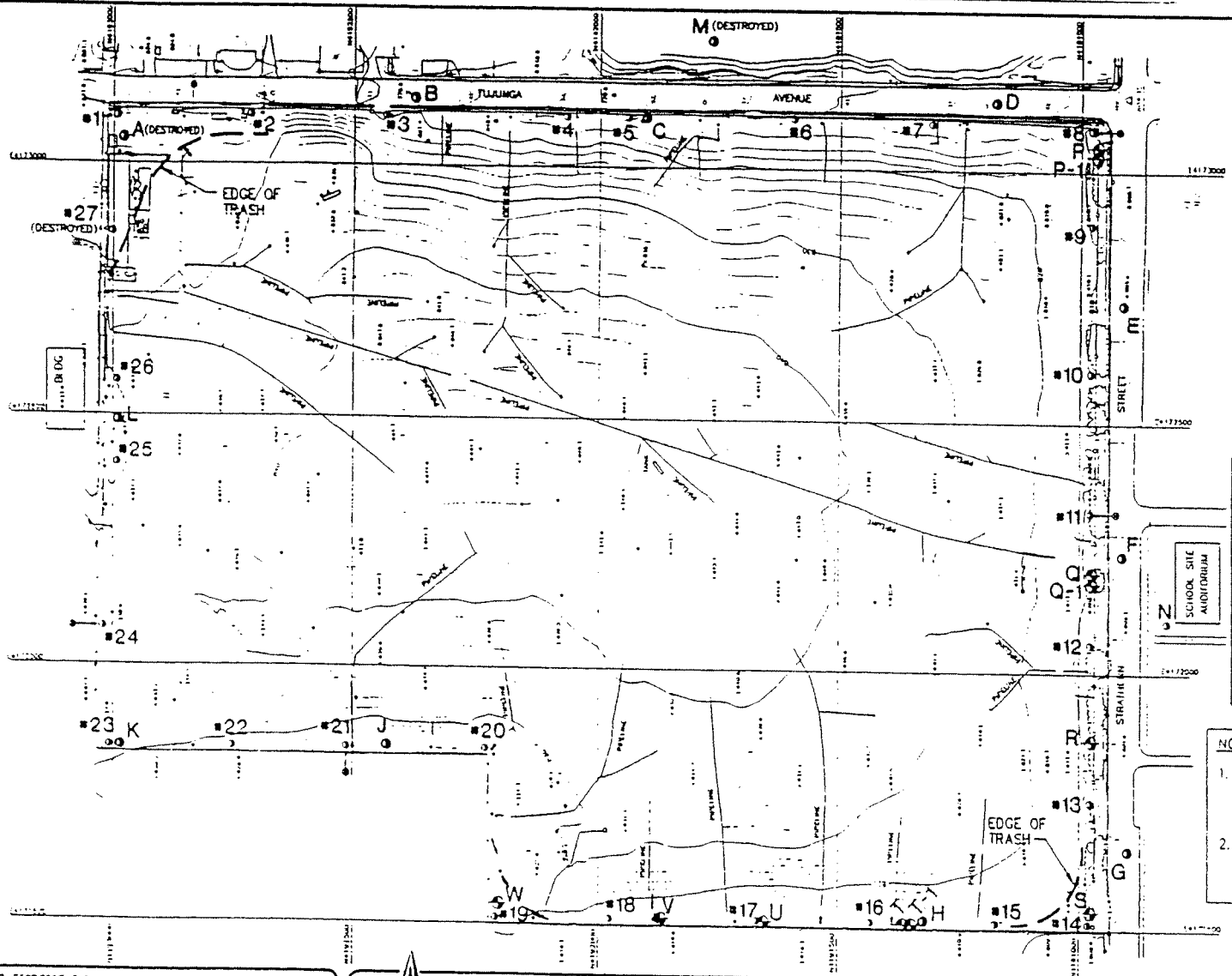
EXHIBIT A

Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps



AERIAL PHOTOGRAPHY DATED 1-24-92

LEGEND

- #10 EXIST. SHALLOW PROBE
- F EXIST. DEEP PROBE
- PROBE SAMPLING LOCATION
- WELL
- 10' CONTOUR
- 2' CONTOUR
- R NEW PROBES INSTALLED SEPT/OCT 1991

NOTES:

1. PROBES B THRU G ARE OUTSIDE WALL IN PARKWAY WITH IRRIGATION VAULTS, GREEN PLASTIC ROUND OR SQUARE.
2. PROBE N IS 8'± SOUTH OF SIDEWALK IN SCHOOL YARD, 8'± EAST OF MAIN ENTRY SIDEWALK.

Drawing prepared by:

SEPICH ASSOCIATES, Inc.
2617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-6987
CIVIL ENGINEERS SANITARY ENVIRONMENTAL WASTE AND METHANE SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE PIT

PROBE LOCATIONS

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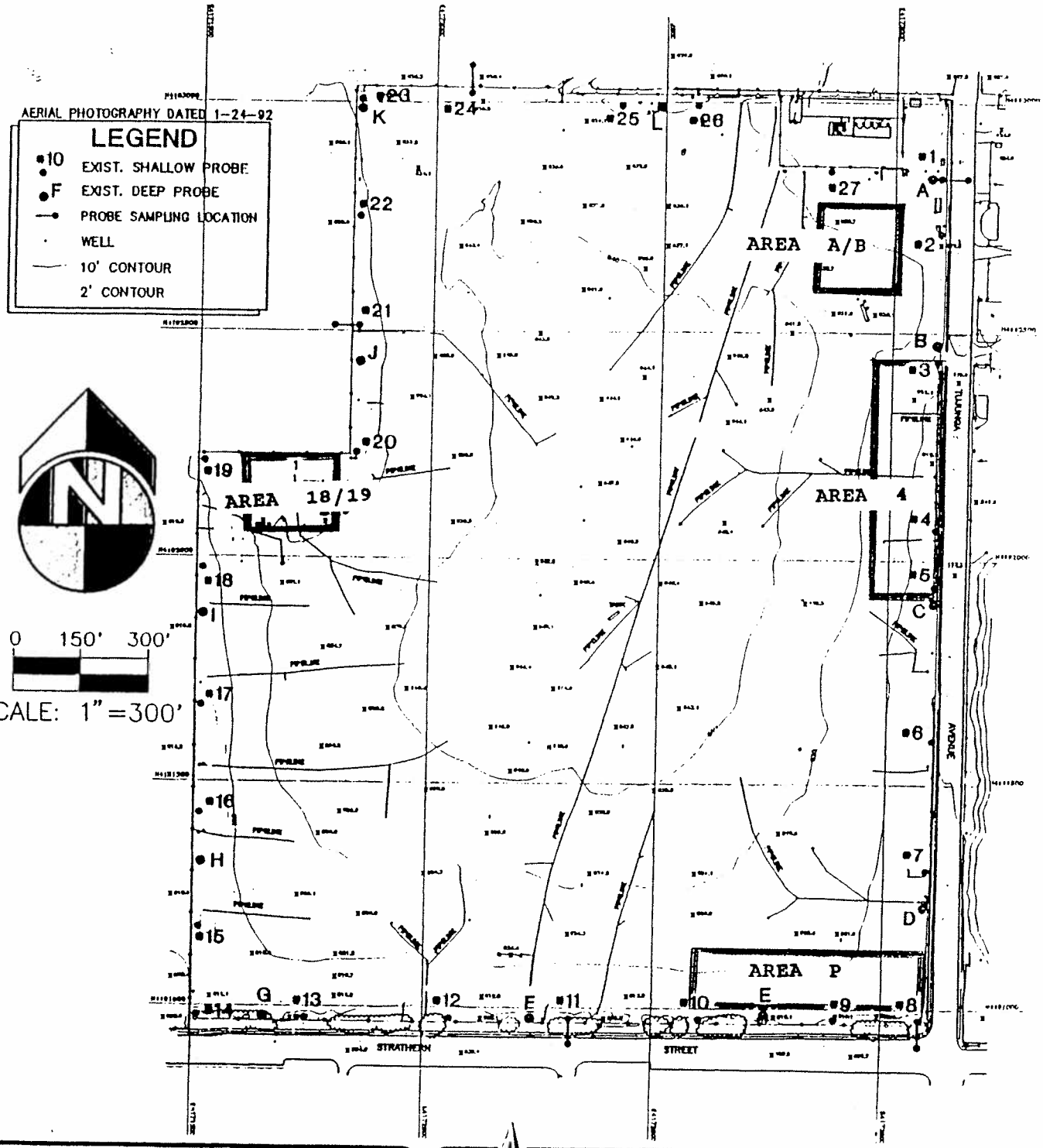

Drawing prepared by:

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For:

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL SECOND QUARTER

INTEGRATED SURFACE SAMPLING

1994

002383

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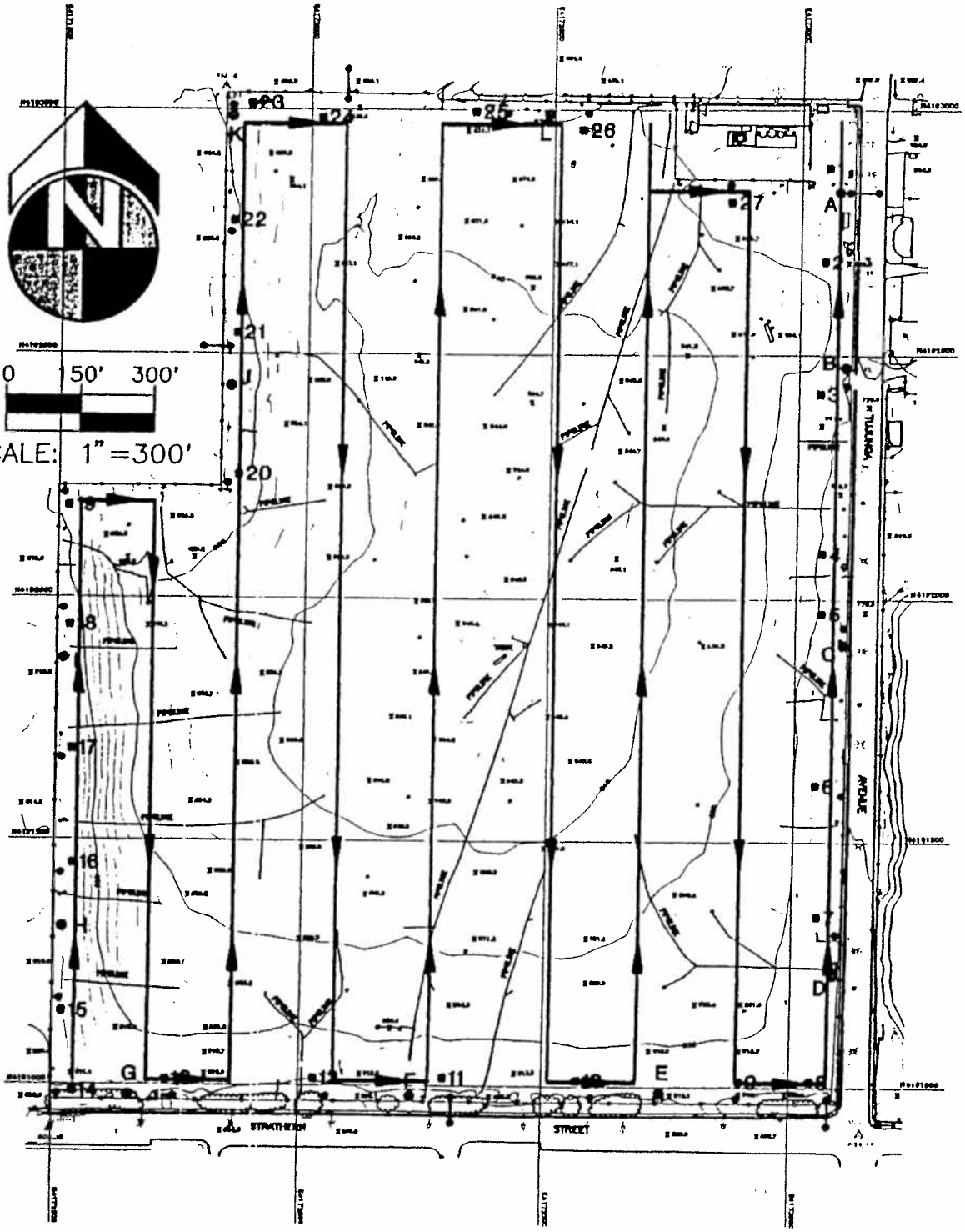
INSTANTANEOUS SURFACE MONITORING



PATH A

Drawing prepared by:
SEPICH ASSOCIATES, Inc.
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For:
Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

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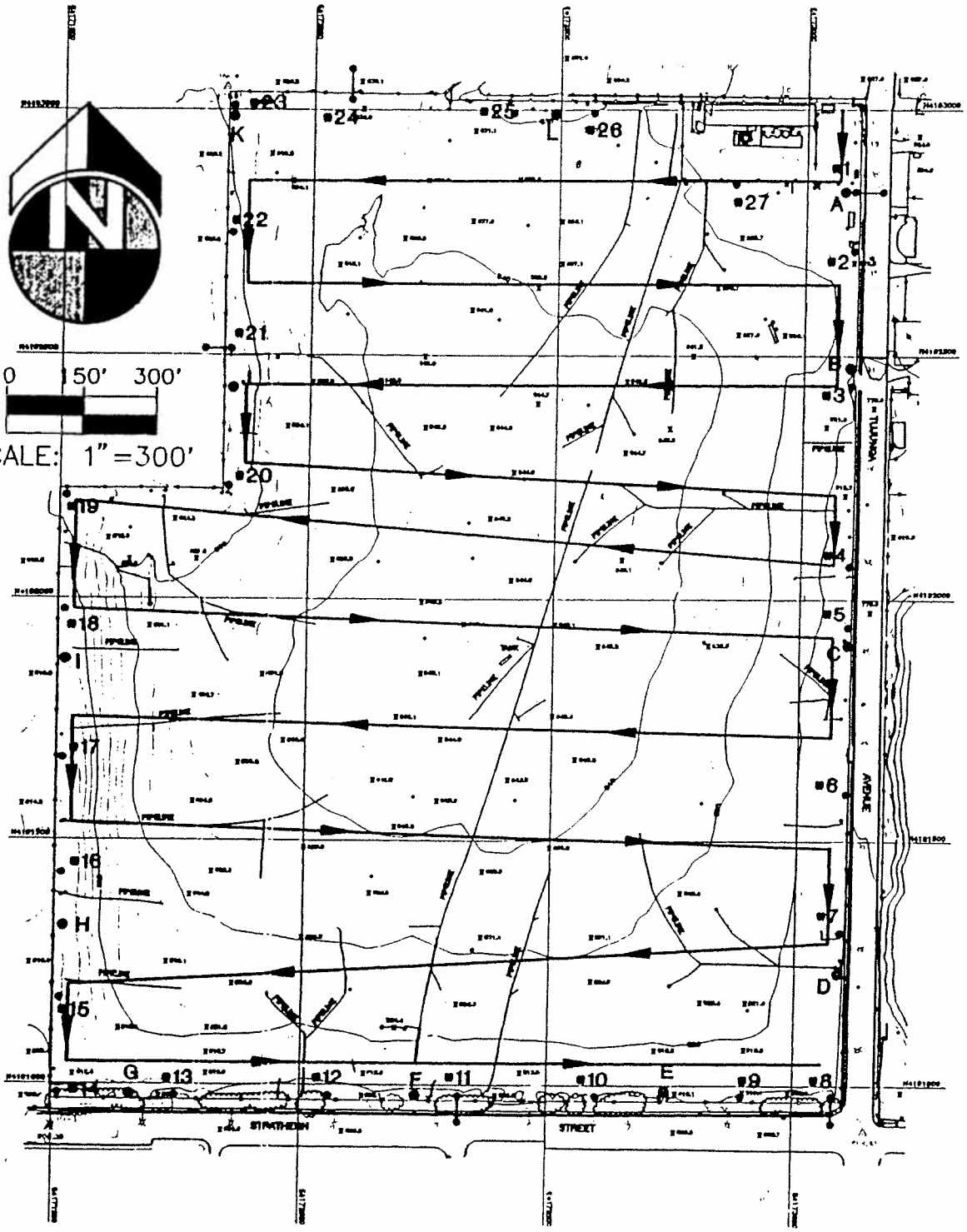
INSTANTANEOUS SURFACE MONITORING



PATH B

Drawing prepared by:

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Public Facilities Branch / SCAQMD July 21, 1994

EXHIBIT B

Core Group Toxic Air Contaminants

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TABLE 1: TOXIC AIR CONTAMINANTS -- CORE GROUP

1. Acetonitrile CH_3CN
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1 Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2 Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1 Dichloroethene (Vinylidene Chloride) $CH_2:CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C:CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1 Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichloroethylene $CHCl:CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2:CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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Public Facilities Branch / SCAQMD July 21, 1994

EXHIBIT C

Field Data - Second Quarter, 1994

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Los Angeles By Products
Robert M.McAllister
May 18,1994

To Alex, of John Sepich Associates:

In regards to the month of April 1994, the following are notes of activity and test results with conditions of the Penrose Site;

April 14- Scott VanGorden spot checked probes and found them all clear. Which probes ?

April 19- P.E. began to drill a well close to probe "P".

April 21- A well at probe "T" was drilled and set in place.

April 22- P.E. drilled a migration well at probe "S" during a sunny day. Instantaneous test failed to wind velocity at 6.5 mph. Alex was present. Weather was reported as dry.

April 25- A new well at probe ""R" has a depth of 73' reported a 40% methane gas reading. Reported rain forcing a cancellation of instantaneous survey.

April 26- P.E. drilled a well at "Q" with a depth of 80' and no instantaneous survey due to the 72 hours without rain regulation.

April 27- Failed instantaneous survey due to rain. Reported rain from the night of the 25th to the 27th. Completed well at probe "S" with depth of 55'.

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PENROSE METHANE MONITORING

DATE 04/15/94 TECH. N2

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol.	
25		ND					
K		ND					
26		ND					
B		ND					
C		ND					
D		ND					
E		ND					
F		ND					
N		ND					
G		ND					

PACIFIC ENERGY DATA SHEET

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Penrose Methane Monitoring

Date 04-15-94 Tech H 2

Sample Point #	% LEL	% by Vol	Sample Point	% LEL	% by Vol.
1		ND	S-80'		ND
2		ND	S-120'		ND
3		ND	14		ND
4		ND	15		ND
5		ND	H		ND
6		ND	T-10'		2
7		ND	T-40'		2
8		ND	T-80'		3
P-10'		62	T1-72'		5
P-40'		54	16		ND
P-80'		14	U-10'		ND
P1-120'		ND	U-37'		ND
9		ND	U-68'		5
10		ND	17		ND
11		ND	V-10'		ND
Q-10'		46	V-40'		ND
Q-40'		38	V-80'		ND
Q-80'		6	W-10'		ND
Q1-120'		ND	W-40'		ND
Q1-160'		ND	W-80'		ND
12		ND	W-120'		ND
R-10'		ND	W-153'		ND
R-40'		ND	20		ND
R-80'		ND	X		ND
R-120'		ND	21		ND
13		ND	22		ND
S-10'		ND	23		ND
S-40'		ND	24		ND

PACIFIC ENERGY DATA SHEET

002391

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Penrose Methane Monitoring

Date 04/22/94 Tech. N2

Sample Point #	% LEL	% by Vol	Sample Point	% LEL	% by Vol
1		ND	S-80'		2
2		ND	S-120'		3
3		ND	14		ND
4		ND	15		ND
5		ND	H		ND
6		ND	T-10'		2
7		ND	T-40'		5
8		ND	T-80'		2
P-10'		58	T1-72'		6
P-40'		62	16		ND
P-80'		38	U-10'		ND
P1-120'		10	U-37'		ND
9		ND	U-68'		12
10		ND	17		ND
11		ND	V-10'		2
Q-10'		44	V-40'		4
Q-40'		40	V-80'		5
Q-80'		8	W-10'		ND
Q1-120'		2	W-40'		ND
Q1-160'		ND	W-80'		ND
12		ND	W-120'		ND
R-10'		ND	W-153'		ND
R-40'		ND	18		ND
R-80'		ND	19		ND
R-120'		ND	20		ND
13		ND	J		ND
S-10'		3	21		ND
S-40'		3	22		ND

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Penrose Methane Monitoring

Date 04/22/94 Tech HZ

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol	
23		ND					
24		ND					
K		ND					
25		ND					
26		ND					
B		ND					
C		ND					
D		ND					
E		ND					
F		ND					
N		ND					
G		ND					

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Overall Attempts 4

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JOB NAME: Penrose Landfill

JOB No. MPY

DATE / /

REMARKS CONTINUED:

5-3-94: Instantaneous Test Aborted at 7:48 a.m. due to 8-9.3 mph.
8:15 a.m. Alex and Rob commence with Probe Monitoring
Results P - 80' ND
each well w.s 40' 35%
Purged 10 min. prior 10' ND
Q - 10' - 20%
40' - 40%

5-5-94 - Instantaneous Survey aborted at 7:00 a.m. due to Rain night before
- Ground was moist with heavy clouds.

5-7-94 - No OVA due to Rain on May 6.

5-11-94 - OVA Completed with 2-4 mph. Results ND.

5-24-94 - Probe testing "R" and "S". Results were ND. Testing was ~~to~~ completed by Marcelino Guzman and Abel Guzman.
Instrument used was the Natural Gas Indicator, Gas Tech
Model NP-204

Robert [illegible] — INSPECTOR

Los Angeles by Products — PRINCIPAL

SHEET__OF__

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JOB NAME: PENROSE-AQMD

JOB No. J152-6
DATE 5/3/94

INSPECTION REPORT

CLIMATE: bright / clear / fog / cloudy / overcast / rain | <32° F / 33°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F | still 0700 / breeze / wind 0800 | dry / moderate / humid

LOCATION: Tujunga Ave at Strathern, Sun Valley

PURPOSE: April monthly monitoring and sampling

CONTRACTOR(S): LARPC Bob McAllister

REMARKS: No measurable wind at 0700 hr. Last precipitation was on Wed. April 27, 94 (PM). Wind at 0800 was 8 mph. No instantaneous or integrated sampling today.
Perimeter probe sampler location based on April 22, 1994 perimeter probe monitoring by Smith-Emery. Since April 22, 6 relief wells have been installed and are being tested/adjusted to control gas at probes. Relief well W-1 is approximately 60 ft north of Probe P. At 80' pumped for 1 min. HPK ND reading after 18 min. Sp'd at 0830.
at 40' probe 1% CH_4 after 3 min; pumped 1 min; 14% after 2 min 35% after 10 min. Sp'd at 0845
at 10': pumped 1 min. HPK ND after 4 min; pumped 1 min HPK ND after 7 min. Sampled at 0900 hr.
@ G @ 40'. pumped 1 min; HPK to 44% CH_4 after 3 min; dropped and leveled at 40% @ 3-5 min.

☐ REINSPECTION REQUIRED

Robert T. Sepich
INSPECTOR

PRINCIPAL

SHEET 2 OF 2

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JOB NAME: PENROSE

JOB No. J152-6
DATE 5/3/94

REMARKS CONTINUED: Distinct H_2S odor, however, Industrial Scientific HS267 remained at ND after 1 min of monitoring.
Q at 10:20% CH_4 w/ HPK after 5 min.
Sampled at 0945.
At plant inlet Tony Robinson assisted. He had got 42% CH_4 earlier. HPK read 40%; HS267 read 16 ppm H_2S max. Sampled at 1005 hr.
Bob McAllister delivered the six cylinder samples to PAI.

Bob requested and was given a copy of the SCAQMD "Guidelines for Implementation of Rule 1150.1" Oct. 89 Rev..

Bob and Mike McAllister discussed the instructions provided by Sepich Associates, realized there should be an office copy as well as a field copy — requested an additional copy — including the Guidelines ....

Robert T. Forsht
INSPECTOR

SHEET 2 OF 2

002396

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Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 5-3-94

Job # J1526

GAS CONCENTRATIONS

INITIALS	CF	
TIME	0830	
INSTRUMENT	HPR	
PARAMETER	CH4	

REMARKS: Perimeter Probe Monitoring before Perimeter Probe Sample & Full Suite monitoring done Fri April 22 94. High probes 4/22/94 were P@40', 10'; 4@10', 4

PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

PROBE #			
A			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'	ND	
	40'	35	
	80'	ND	
P-1	120'		

PROBE #			
Q	10'	20	ND
	40'	40	H_2S ND
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
Plant Inlet		40	16 ppm

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3036 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8987

Plant Report 5-3-94

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JOB NAME PENROSE LANDFILL

JOB No. J152-6

DATE 5/11/94

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, (overcast), rain | <32° F, 33°-55°, (56-70°), 71°-85°, 86°-100°, >100° F | still, (breeze), wind | dry, (moderate), humid

LOCATION: Penrose

PURPOSE: Instantaneous Surface Monitor

CONTRACTOR(S): Robert McAllister

REMARKS: There was a two to three mph wind from the Southeast affecting the entire monitor. The east side of the site had been leveled and cleared of weeds and bushes. Overcast conditions kept temperature cool. The last rain was on Sunday May 8, 1994. The ground at the site was still hard and moist. Weeds covered more than 75% of the site with an average height of 2 to 3 ft. At 7:45 a.m. the monitor began, and was completed at 10:35 a.m. Validity tests of Foxboro instrument were given three different times; Before, half way through monitor, and after completion of monitor. Overcast conditions remained with a consistent two to three mph southeast wind (wind is coming out of the South east and blows toward the North west). The path taken of Contractor was the Path B, east to west Route. Calculation of wind speed was taken periodically throughout test. There were No Readings, resulting in a ND for the entire Monitor. The testing instrument used was the Foxboro 128.

☐ **REINSPECTION REQUIRED**

Robert McAllister — INSPECTOR

Los Angeles by Products — PRINCIPAL

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002398

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Penrose Methane Monitoring

Date 05/12/94 PM

Tech M2

Sample Point #	% LEL	% by Vol	Sample Point	% LEL	% by Vol
1		ND	S-80'		ND
2		ND	S-120'		ND
3		ND	14		ND
4		ND	15		ND
5		ND	H		ND
6		ND	T-10'		ND
7		ND	T-40'		ND
8		ND	T-80'		ND
P-10'		ND	T1-72'		ND
P-40'		27	16		ND
P-80'		ND	U-10'		ND
P1-120'		10	U-37'		ND
9		ND	U-68'		ND
10		ND	17		ND
11		ND	V-10'		ND
Q-10'		28	V-40'		ND
Q-40'		49	V-80'		2
Q-80'		ND	W-10'		ND
Q1-120'		ND	W-40'		ND
Q1-160'		ND	W-80'		ND
12		ND	W-120'		ND
R-10'		ND	W-153'		ND
R-40'		ND	20		ND
R-80'		ND	J		ND
R-120'		ND	21		ND
13		ND	22		ND
S-10'		ND	23		ND
S-40'		ND	24		ND

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Penrle Methane Monitoring

Date 09/12/94 Tech M2

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol	
25		ND					
K		ND					
26		ND					
		ND					
B		ND					
C		ND					
D		ND					
E		ND					
F		ND					
N		ND					
G		ND					

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JOB NAME PENROSE LANDFILL

JOB No. J152-6

DATE 5/12/94

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, (overcast), rain; <32° F, 33°-55°, (56°-70°), 71°-85°, 86°-100°, >100° F; still, breeze, wind; dry, moderate, humid

LOCATION: Penrose

PURPOSE: Integrated Landfill Surface Sampling.

CONTRACTOR(S): Robert McAllister

REMARKS: Wind velocity was 0-2 mph out of the Southeast. There was evidence of a slight moisture in the air. Two samples were taken, one at the P well sight and the other at the F-one well sight. First the P sight was taken at 9:00 a.m. and was completed at 9:25 a.m. The inspection at the #4 (probe) sight began at 08:50 a.m. and concluded at 9:10 a.m. Both tests were taken with the flow meter at 375-400. Contractor aimed wand at every hole and crack that was discovered and covered a 100-150 ft square area surrounding each well. The #4 (probe) sight had the weeds knocked down and the P probe sight had a new Relief well in full operation. Last Rain occurred on Sunday May 8, 1994.

☐ **REINSPECTION REQUIRED**

Robert McAllister — INSPECTOR

Los Angeles by Products — PRINCIPAL

SHEET 1 OF 2

002401

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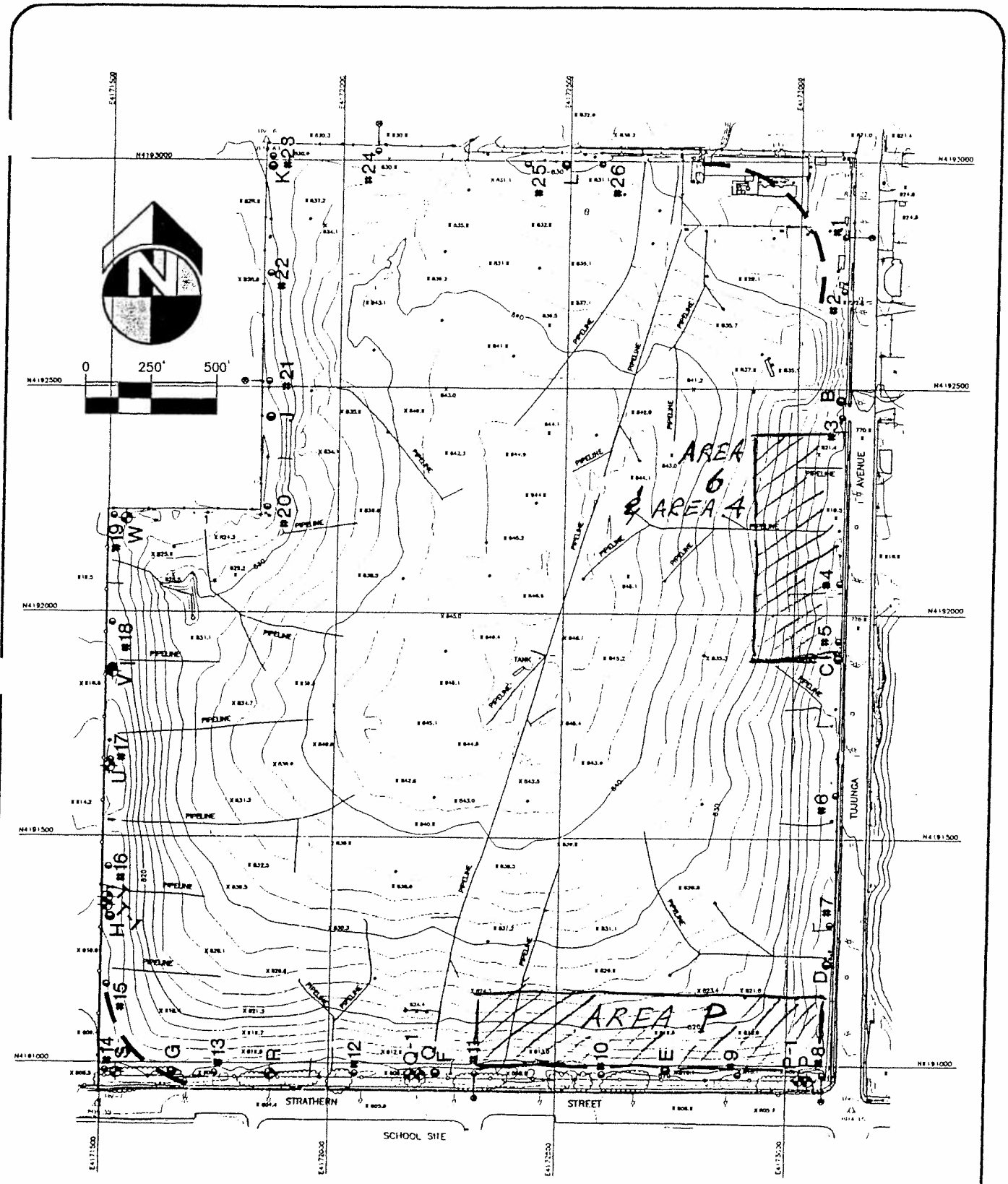

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CIVIL ENGINEERS
SANITARY
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WASTE AND
GAS CONTROL
SPECIALISTS

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING

SAMPLING DATE 5-12-94 SAMPLER Robert McAllister SHEET 2 OF 2

002402

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JOB NAME: PENROSE

JOB No. J152-6

DATE 5/19/94

INSPECTION REPORT

CLIMATE: (bright) cloudy clear overcast fog rain | <32° F (71°-85°) 33°-55° 86°-100° 56°-70° >100° F | still (breeze) wind | (dry) moderate humid

LOCATION: Penrose

PURPOSE: Perimeter Probe Sampling

CONTRACTOR(S): Robert McAllister w/ Alex Feucht

REMARKS: Relief well close to "Q" probe is in full operation
Sampled: probe Q-40' @ 1255 hrs TOC = 36%
Q-10' @ 1320 TOC = ND
P-40' @ 1335 TOC = 10%
Plant Inlet @ 1340 TOC ~ 40%
Meter A: H_2S = 139 ppm
P-E Sensidyne readings w/ 4H tubes (3) = 60 ppm ± 10 ppm H_2S.
Plant Inlet readings normally 60 ppm ± between Penrose Field well readings as high as 130 ppm.

On 5-3-94 we used HS267 Meter B and got reading of 16 ppm. Need to calibrate both Meters: GTF

(see 5/20/94 calibration record)

☐ REINSPECTION REQUIRED

Alex T. Feucht

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET __ OF __

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J152-6 Gas all SAMPLE Bag c.

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Incorporated 1975
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax (213) 211-4170

PENROSE LANDFILL

Date 5-19-94

Job # J152-6

GAS CONCENTRATIONS

INITIALS	ATF	
TIME	1250	1340
INSTRUMENT	H	HS267
PARAMETER	CH_4	H_2S

REMARKS: Perimeter Probe Monitoring prior to sampling. Sampled by Robert McAllister and Alex Fenzel. Bacharach H for CH_4 Ind Sci HS267 for H_2S (Meter A) Spl

PROBE #			PROBE #			PROBE #			CH_4 %	Time
1						Q	10'		ND	1320
2			B				40'		36	1255
3			C	GREEN-21'			75'			
4				YELLOW-41'		Q-1	120'			
5				ORANGE-61'			158'			
6				RED-81'		R	10'			
7			D				40'			
8			E				80'			
9			F				120'			
10			G			S	10'			
11			H				40'			
12			I	GREEN-17'			80'			
13				YELLOW-37'			120'			
14				ORANGE-57'		T	10'			
15				RED-77'			40'			
16			J				73'			
17			K			T-1	72'			
18			L	GREEN-45'		U	10'			
19				YELLOW-65'			37'			
20				ORANGE-85'			68'			
21				RED-105'		V	10'			
22			M				40'			
23			N	GREEN-22'			73'			
24				YELLOW-45'		W	10'			
25				ORANGE-68'			40'			
26				RED-90'			80'			
			P	10'			120'			
				40'	10%		158'			H_2S
				80'		Plant Inlet			40	139 match
			P-1	120'						1340 hr

Form Prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3036 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8987

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Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

May 31, 1994

FILE NO: 70237

LAB NO: 4147141500

SAMPLE: On 05/26/94, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	12
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	0.05	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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SMITH-EMERY COMPANY
The Full Service Independent Testing Laboratory, Established 1904

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P.O. Box 880550, Hunter's Point Shipyard Bldg. 114 • San Francisco, California 94188 • (415) 330-3000 • Fax: (415) 330-3030
5427 East La Palma Avenue • Anaheim, California 92807 • (714) 693-1026 • Fax: (714) 693-1034

Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 E. Washington Blvd.
Commerce, CA 90040

May 31, 1994

FILE NO: 70237

LAB NO: 4147141500

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	2
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	29
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	0		

(5) Site Q	Percent Methane	(6) Site Ol	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	32	@ 120'	ND	@ 18'	ND	@ 10'	ND
@ 40'	55	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. C.D. Van Gorden

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SEPICH ASSOCIATES, Inc.
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: Penrose Landfill

JOB No. J152-6

DATE 06/13/94

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain

<32° F / 71°-85° / 33°-55° / 86°-100° / 56°-70° / >100° F

still / breeze / wind

dry / moderate / humid

LOCATION: Penrose Landfill

PURPOSE: Instantaneous Surface Monitoring

CONTRACTOR(S): Robert M. McAllister

REMARKS: An instantaneous suface monitor was recorded on the thirteenth of July 1994. The contractor was Robert McAllister of Los Angeles by Products. The instruments used in the monitor was a Foxboro 128 and a Turbo Meter electronic wind speed indicator. The contractor selected path 'A' to alternate from path followed in previous month. The wind speed was recorded at 9:00 a.m. with a velocity of 2.7 - 3.2 m.p.h. The weather during monitor changed from overcast clouds with cool tempatures to warm tempatures with clear visibility. A considerable amount of area had been cleared of weeds since the last monitor. During monitor contractor searched for cracks and holes to direct instrument intake wand toward most probable areas. The contractor detected two locations. One labeled A/B, resulted in a reading of peg, or +1,000 ppm. The second area labeled 18/19, resulted in a recordind of 34 ppm. The two locations are appropriately marked on map. Upon determination of survey, a wind speed of 3.8 - 4.7 mph. was detected. The last recorded precipatation was over one month ago.

☐ **REINSPECTION REQUIRED**

Robert McAllister
INSPECTOR

PRINCIPAL

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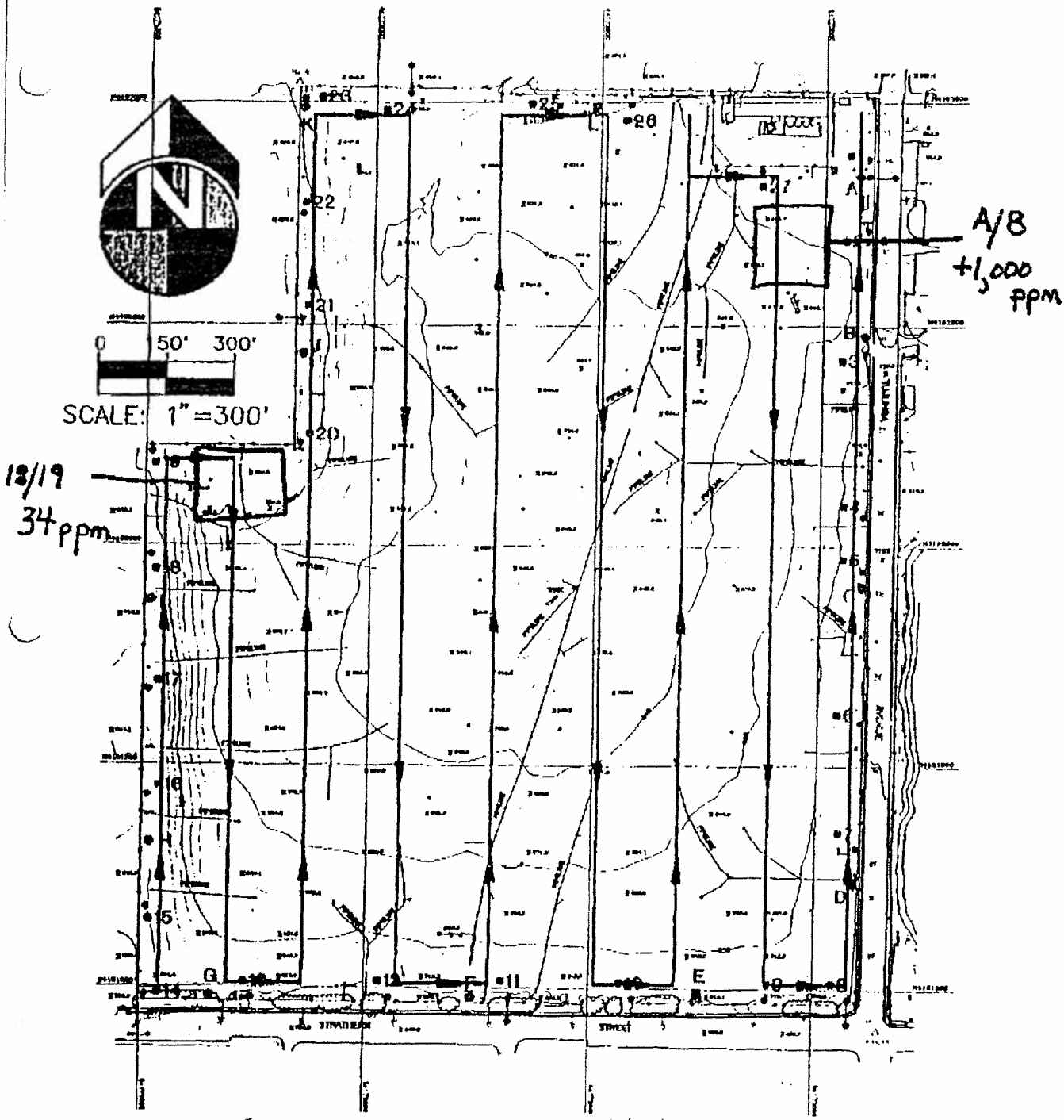
INSTANTANEOUS SURFACE MONITORING



June 13, 1994 Instantaneous Surface Monitoring
June 22, 1994 Integrated Surface Sampling

PATH A

Drawing prepared by:

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For:

Los Angeles By-Products Co.
Incorporated 1975
1010 East 25th St., Los Angeles, CA 90058
Tel (213) 233-4175 Fax (213) 233-4170

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Penrose Methane Monitoring

Date 06/14/94 Tech. NZ

Sample Point #	% LEL	% by Vol	Sample Point	% LEL	% by Vol
1		ND	S-80'		ND
2		ND	S-120'		ND
3		ND	14		ND
4		ND	15		ND
5		ND	H		ND
6		ND	T-10'		ND
7		ND	T-40'		ND
8		ND	T-80'		ND
P-10'		2	T1-72'	2	~~ND~~ 2
P-40'		34	16		ND
P-80'		8	U-10'		ND
P1-120'		12	U-37'		ND
9		ND	U-68'		ND
10		ND	17		ND
11		ND	V-10'		ND
Q-10'		28	V-40'		ND
Q-40'		49	V-80'		ND
Q-80'		2	W-10'		ND
Q1-120'		ND	W-40'		ND
Q1-160'		ND	W-80'		ND
12		ND	W-120'		ND
R-10'		ND	W-153'		ND
R-40'		ND	20		ND
R-80'		ND	J		ND
R-120'		ND	21		ND
13		ND	22		ND
S-10'		ND	23		ND
S-40'		ND	24		ND

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Penrose Methane Monitoring

Date 06/14/94 Tech. M2

Sample Point	% LEL	% by Vol		Sample Point	% LEL	% by Vol	
25		ND					
K		ND					
26		ND					
B		ND					
C		ND					
D		ND					
E		ND					
F		ND					
N		ND					
G		ND					
18		ND					
19		ND					

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Penrose Methane Monitoring

Date 06/23/94 Tech. M2

Sample Point #	% LEL	% by Vol	Sample Point	% LEL	% by Vol
1		ND	S-80'		ND
2		ND	S-120'		ND
3		ND	14		ND
4		ND	15		ND
5		ND	H		ND
6		ND	T-10'		ND
7		ND	T-40'		ND
8		ND	T-80'		ND
P-10'		2	T1-72'		ND
P-40'		20	16		ND
P-80'		3	U-37'		ND
P1-120'		8	U-68'		ND
9		ND	U-10'		ND
10		ND	17		ND
11		ND	V-10'		ND
Q-10'		25	V-40'		ND
Q-40'		32	V-80'		ND
Q-80'		ND	W-10'		ND
Q1-120'		ND	W-40'		ND
Q1-160'		ND	W-80'		ND
12		ND	W-120'		ND
R-10'		ND	W-153'		ND
R-40'		ND	20		ND
R-80'		ND	J		ND
R-120'		ND	21		ND
13		ND	22		ND
S-10'		ND	23		ND
S-40'		ND	24		ND

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Penrose Methane Monitoring

Date 08/23/94 Tech. N2

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol	
25		ND					
K		ND					
26		ND					
B		ND					
C		ND					
D		ND					
E		ND					
F		ND					
G		ND					
N		ND					

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TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8087

JOB NAME: Penrose Landfill

JOB No. J152-6

DATE 07 /01 /94

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: Penrose Landfill

PURPOSE: Instantaneous landfill Surface monitor

CONTRACTOR(S): Robert M. McAllister
Two area

REMARKS: Two area samples were taken on 06/22/94. A portable self-contained unit with its own internal power source was used in the collection of the samples in 10-liter sample bags. The tempatures for the collections were in the 71 to 85 degrees. The wind velocity was low, 1.3 to 1.8. The time of the first sample, labelled area 18-19, was at 7:00am. The time of the second sample, labelled area A/B, was at 8:15am. There were few clouds and the sun was shining brightly. The wind remained calm throughout entire collection. The 10-liter Tedler bags were placed into a large black trash bag to protect bags from sunlight. Bags were received at lab within 4 hours.

Five peremeter probe samples were collected on 07/01/94. Probe P 40' was at 7:15am. The time of P 80' was taken at 7:45am. The time of P120' was taken at 8:13 am The time that probe sample Q 10' was at 8:45am. Sample Q 40' was taken at 9:10am. Between each sample collection instruments were purged, as well as before each collection probe was purged for approximately 5 minutes. The wind velocity of 1.8 - 2.4 remained low throughout collection

☐ **REINSPECTION REQUIRED**

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET 1 OF 2

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SEPICH ASSOCIATES, Inc.
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TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8857

JOB NAME: Penrose Landfill

JOB No. J152-6

DATE 07 / 01/94

REMARKS CONTINUED:

process. There was evidence of light morning dew and low clouds existed. All collection bags were placed into a black trash bag for protection against sunlight.

Robert M. Allister
INSPECTOR

PRINCIPAL

SHEET 2 OF 2

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Public Facilities Branch / SCAQMD July 21, 1994

EXHIBIT D

Laboratory Analytical Results - Second Quarter, 1994

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J152-6

Performance Analytical Inc.
Environmental Testing and Consulting

LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	05/11/94
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	05/03/94
	Westlake Village, CA 91362	PAI Project No:	6402
Contact:	Mr. John Sepich	Purchase Order:	Verbal

Project ID: Penrose Landfill #J-152-6

Six (6) Tedlar Bags labeled:

"P-80'" "P-40'" "P-10'" "Q-40'" "Q-10'"
"Plant Inlet"

The samples were received at the laboratory under chain of custody on May 3, 1994. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

SCAQMD Method 25.2 Analysis

The samples were analyzed for Total Gaseous Non-Methane Organics, and one was analyzed for Carbon Monoxide according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

Fixed Gases Analysis

One of the Tedlar Bag samples was analyzed for Fixed Gases (Oxygen, Nitrogen, Carbon Monoxide, Methane and Carbon Dioxide) and the rest were analyzed for Methane using a Hewlett Packard Model 5890 gas chromatograph equipped with a thermal conductivity detector (TCD).

Data Release Authorization:

Chris Parnell

Chris Parnell
Senior Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

20954 Osborne Street, Canoga Park, CA 91304 • Phone 818 709 1369 • Fax 818 709-2915

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Volatile Organic Compound Analysis

The samples were also analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The method was modified for using Tedlar Bags. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/ cryogenic concentration. The instrumentation used for sample analysis was comprised of a Finnigan Model 4500 GC/MS/DS interfaced to a Tekmar 5010 Automatic Desorber. A thick film (5 micron) crossbonded 100% Dimethylpolysiloxane megabore column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are included on the attached data sheets.

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RESULTS OF TOTAL GASEOUS NON-METHANE ORGANICS (TGNMO) ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6402

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: J. Dan Taliaferro
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 05/03/94
Date Analyzed: 05/03/94

Client Sample ID	PAI Sample ID	Total Non-Methane Organics (as Methane) Concentration in ppm, v/v Result	Detection Limit
P-80' (05/03/94)	9401782	26	1.0
P-40' (05/03/94)	9401783	1200	6.2
P-10' (05/03/94)	9401784	110	1.0
Q-40' (05/03/94)	9401785	1700	6.2
Q-10' (05/03/94)	9401786	1400	6.2
Plant Inlet (05/03/94)	9401787	4600	6.2
Plant Inlet (05/03/94)	Lab Duplicate	4400	6.2
N/A (05/03/94)	Method Blank	ND	1.0

ND = Not Detected - Less Than Indicated Detection Limit

Client Sample ID	PAI Sample ID	Carbon Monoxide Concentration in ppm, v/v Result	Detection Limit
Plant Inlet (05/03/94)	9401787	ND	9.3
Plant Inlet (05/03/94)	Lab Duplicate	ND	9.3
N/A (05/03/94)	Method Blank	ND	1.5

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6402

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: J. Dan Taliaferro
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 05/03/94
Date Analyzed: 05/03/94

Client Sample ID	PAI Sample ID	Methane (%, v/v) Result	Detection Limit
P-80' (05/03/94)	9401782	ND	0.200
P-80' (05/03/94)	Lab Duplicate	ND	0.200
P-40' (05/03/94)	9401783	33.4	0.200
P-10' (05/03/94)	9401784	ND	0.200
P-10' (05/03/94)	Lab Duplicate	ND	0.200
Q-40' (05/03/94)	9401785	45.1	0.200
Q-10' (05/03/94)	9401786	24.2	0.200
N/A (05/03/94)	Method Blank	ND	0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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PERFORMANCE ANALYTICAL INC.

RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6402

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: J. Dan Taliaferro
Verified By: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/03/94
Date Analyzed: 05/03/94

Client Sample ID	PAI Sample ID	Oxygen (%, v/v)	Nitrogen (%, v/v)
Plant Inlet (05/03/94) (10:05)	9401787	1.19	20.3
Plant Inlet (05/03/94) (10:05)	Lab Duplicate	1.20	20.3
N/A (05/03/94)	Method Blank	ND < 0.0300	ND < 0.100

ND = Not Detected - Less Than Indicated Detection Limit

Client Sample ID	PAI Sample ID	Methane (%, v/v)	Carbon Dioxide (%, v/v)
Plant Inlet (05/03/94) (10:05)	9401787	41.3	37.2
Plant Inlet (05/03/94) (10:05)	Lab Duplicate	41.3	37.2
N/A (05/03/94)	Method Blank	ND < 0.0200	ND < 0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Casteel
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 05/04/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-80' (05/03/94) (08:30)

PAI Sample ID: 9401782

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/03/94
Date Analyzed: 05/04/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	4.1 TR	5.0	1.2 TR	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	7.8	5.0	1.4	0.93
71-43-2	Benzene	18	5.0	5.5	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	4.0 TR	5.0	0.75 TR	0.94
108-88-3	Toluene	48	5.0	13	1.3
12-18-4	Tetrachloroethene	5.6	5.0	0.83	0.75
108-90-7	Chlorobenzene	200	5.0	44	1.1
1330-20-7	Total Xylenes	36	5.0	8.3	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	56	5.0	9.3	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-40' (05/03/94) (08:45)

PAI Sample ID: 9401783

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/03/94
Date Analyzed: 05/04/94
Volume Analyzed: 0.025 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	3400	200	1300	79
75-35-4	1,1-Dichloroethene	ND	200	ND	51
75-09-2	Methylene Chloride	ND	200	ND	58
75-34-3	1,1-Dichloroethane	ND	200	ND	50
67-66-3	Chloroform	ND	200	ND	41
107-06-2	1,2-Dichloroethane	ND	200	ND	50
71-55-6	1,1,1-Trichloroethane	ND	200	ND	37
71-43-2	Benzene	890	200	280	63
56-23-5	Carbon Tetrachloride	ND	200	ND	32
79-01-6	Trichloroethene	170 TR	200	31 TR	38
108-88-3	Toluene	190 TR	200	51 TR	53
12-18-4	Tetrachloroethene	ND	200	ND	30
108-90-7	Chlorobenzene	7800	200	1700	44
1330-20-7	Total Xylenes	100 TR	200	24 TR	46
541-34-5	1,3-Dichlorobenzene	ND	200	ND	34
106-73-1	1,4-Dichlorobenzene	660	200	110	34
95-50-1	1,2-Dichlorobenzene	ND	200	ND	34
100-44-7	Benzyl Chloride	ND	200	ND	39

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-10' (05/03/94) (09:00)

PAI Sample ID: 9401784

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/03/94
Date Analyzed: 05/04/94
Volume Analyzed: 1.00 Liter & 0.200 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	14	5.0	3.4	1.2
67-66-3	Chloroform	4.0 TR	5.0	0.82 TR	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	2.6 TR	5.0	0.47 TR	0.93
71-43-2	Benzene	9.9	5.0	3.1	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	24	5.0	6.4	1.3
12-18-4	Tetrachloroethene	10	5.0	1.5	0.75
108-90-7	Chlorobenzene	440	5.0	97	1.1
1330-20-7	Total Xylenes	25	5.0	5.9	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	360	5.0	60	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-40' (05/03/94) (09:30)

PAI Sample ID: 9401785

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/03/94
Date Analyzed: 05/04/94
Volume Analyzed: 0.025 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	3100	200	1200	79
75-35-4	1,1-Dichloroethene	ND	200	ND	51
75-09-2	Methylene Chloride	ND	200	ND	58
75-34-3	1,1-Dichloroethane	ND	200	ND	50
67-66-3	Chloroform	ND	200	ND	41
107-06-2	1,2-Dichloroethane	ND	200	ND	50
71-55-6	1,1,1-Trichloroethane	ND	200	ND	37
71-43-2	Benzene	600	200	190	63
56-23-5	Carbon Tetrachloride	ND	200	ND	32
79-01-6	Trichloroethene	420	200	79	38
108-88-3	Toluene	270	200	72	53
12-18-4	Tetrachloroethene	ND	200	ND	30
108-90-7	Chlorobenzene	2500	200	550	44
1330-20-7	Total Xylenes	400	200	93	46
541-34-5	1,3-Dichlorobenzene	ND	200	ND	34
106-73-1	1,4-Dichlorobenzene	1000	200	170	34
95-50-1	1,2-Dichlorobenzene	ND	200	ND	34
100-44-7	Benzyl Chloride	ND	200	ND	39

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-40' (05/03/94) (09:30)

PAI Sample ID: 9401785 (Laboratory Duplicate)

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/03/94
Date Analyzed: 05/04/94
Volume Analyzed: 0.025 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	2900	200	1100	79
75-35-4	1,1-Dichloroethene	ND	200	ND	51
75-09-2	Methylene Chloride	ND	200	ND	58
75-34-3	1,1-Dichloroethane	ND	200	ND	50
67-66-3	Chloroform	ND	200	ND	41
107-06-2	1,2-Dichloroethane	ND	200	ND	50
71-55-6	1,1,1-Trichloroethane	ND	200	ND	37
71-43-2	Benzene	600	200	190	63
56-23-5	Carbon Tetrachloride	ND	200	ND	32
79-01-6	Trichloroethene	410	200	77	38
108-88-3	Toluene	240	200	63	53
12-18-4	Tetrachloroethene	ND	200	ND	30
108-90-7	Chlorobenzene	2500	200	540	44
1330-20-7	Total Xylenes	390	200	90	46
541-34-5	1,3-Dichlorobenzene	ND	200	ND	34
106-73-1	1,4-Dichlorobenzene	1500	200	260	34
95-50-1	1,2-Dichlorobenzene	ND	200	ND	34
100-44-7	Benzyl Chloride	ND	200	ND	39

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-10' (05/03/94) (09:45)

PAI Sample ID: 9401786

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/03/94
Date Analyzed: 05/04/94
Volume Analyzed: 0.025 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	1500	200	610	79
75-35-4	1,1-Dichloroethene	ND	200	ND	51
75-09-2	Methylene Chloride	ND	200	ND	58
75-34-3	1,1-Dichloroethane	ND	200	ND	50
67-66-3	Chloroform	ND	200	ND	41
107-06-2	1,2-Dichloroethane	ND	200	ND	50
71-55-6	1,1,1-Trichloroethane	ND	200	ND	37
71-43-2	Benzene	1300	200	400	63
56-23-5	Carbon Tetrachloride	ND	200	ND	32
79-01-6	Trichloroethene	ND	200	ND	38
108-88-3	Toluene	140 TR	200	37 TR	53
12-18-4	Tetrachloroethene	ND	200	ND	30
108-90-7	Chlorobenzene	1500	200	330	44
1330-20-7	Total Xylenes	ND	200	ND	46
541-34-5	1,3-Dichlorobenzene	ND	200	ND	34
106-73-1	1,4-Dichlorobenzene	1800	200	300	34
95-50-1	1,2-Dichlorobenzene	ND	200	ND	34
100-44-7	Benzyl Chloride	ND	200	ND	39

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Plant Inlet (05/03/94) (10:05)

PAI Sample ID: 9401787

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/03/94
Date Analyzed: 05/04/94
Volume Analyzed: 5.0 ml

CAS #	COMPOUND	RESULT (MG/M^3)	DETECTION LIMIT (MG/M^3)	RESULT (PPM)	DETECTION LIMIT (PPM)
75-01-4	Vinyl Chloride	2.0	1.0	0.78	0.39
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene Chloride	ND	1.0	ND	0.29
75-34-3	1,1-Dichloroethane	2.4	1.0	0.61	0.25
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	4.4	1.0	1.4	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
79-01-6	Trichloroethene	1.3	1.0	0.24	0.19
108-88-3	Toluene	71	1.0	19	0.27
12-18-4	Tetrachloroethene	1.8	1.0	0.26	0.15
108-90-7	Chlorobenzene	5.7	1.0	1.2	0.22
1330-20-7	Total Xylenes	61	1.0	14	0.23
541-34-5	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-73-1	1,4-Dichlorobenzene	2.2	1.0	0.36	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17
100-44-7	Benzyl Chloride	ND	1.0	ND	0.19

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	5-3-94

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: _____

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC						Fixed Gas	REMARKS
	5/3/94	0830	G	1	P-80'	✓	✓							
	"	0845	G	1	P-40'	✓	✓							
	5/3/94	0900	G	1	P-10'	✓	✓							
	5/3/94	0920	G	1	Q-40'	✓	✓							
	"	945	G	1	Q-10'	✓	✓							
	"	1005	G	1	Plant Inlet	✓	✓						✓	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:				
RECEIVED BY:	[illegible]	Los Angeles Bt Products	5-3-94	12:36 p.m.
RELINQUISHED BY:				
RECEIVED BY:	Robin Taylor	PAI	5/3/94	12:36
RELINQUISHED BY:				
RECEIVED BY:				

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Environmental Testing and Consulting

LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	05/19/94
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	05/12/94
	Westlake Village, CA 91362	PAI Project No:	6431
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose Landfill #J-152-6		

Two (2) Tedlar Bags labeled: "Area P" and "Area 4"

The samples were received at the laboratory under chain of custody on May 12, 1994. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

SCAQMD Method 25.2 Analysis

The samples were analyzed for Methane and Total Gaseous Non-Methane Organics according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

Volatile Organic Compound Analysis

The samples were also analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The method was modified for using Tedlar Bags. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Finnigan Model 4500 GC/MS/DS interfaced to an Entech 2000 automated whole air inlet system/cryogenic concentrator. A thick film (5 micron) crossbonded 100% Dimethylpolysiloxane megabore column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are included on the attached data sheets.

Data Release Authorization:

Kathleen Aguilera
Analytical Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

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RESULTS OF METHANE &

TOTAL GASEOUS NON-METHANE ORGANICS (TGNMO) ANALYSIS

Client: Sepich Associates, Inc.

Client Project ID: #J152-6
PAI Project ID: #6431

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 05/12/94
Date Analyzed: 05/12/94

Client Sample ID	PAI Sample ID	Concentration in ppm, v/v	
		Methane	Total Non-Methane Organics (as Methane)
Area P (05/12/94)	9401958	1.7	ND < 1.0
Area 4 (05/12/94)	9401959	2.7	ND < 1.0
Area 4 (05/12/94)	Lab Duplicate	2.6	ND < 1.0
N/A (05/12/94)	Method Blank	ND < 0.50	ND < 1.0

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 05/12/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Area P (05/12/94) (8:00 A.M.)

PAI Sample ID: 9401958

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/12/94
Date Analyzed: 05/13/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	3.7 TR	5.0	1.1 TR	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	14	5.0	2.5	0.93
71-43-2	Benzene	14	5.0	4.4	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	63	5.0	17	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	44	5.0	10	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Area P (05/12/94) (8:00 A.M.)

PAI Sample ID: 9401958 (Laboratory Duplicate)

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/12/94
Date Analyzed: 05/13/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	3.6 TR	5.0	1.0 TR	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	13	5.0	2.4	0.93
71-43-2	Benzene	14	5.0	4.4	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	64	5.0	17	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	44	5.0	10	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Area 4 (05/12/94) (8:50 A.M.)

PAI Sample ID: 9401959

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/12/94
Date Analyzed: 05/13/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	2.6 TR	5.0	0.76 TR	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	10	5.0	1.9	0.93
71-43-2	Benzene	8.6	5.0	2.7	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	43	5.0	11	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	33	5.0	7.5	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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JOB NAME: PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES

FILE (JOB#): J152-6

DATE: 5-12-94

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: #6431

ROBERT M. McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	CORE GROUP	ANALYSES REQUIRED: NMHC	CH_4					TOC	REMARKS
	5-12	9:00 a.m.	C	1	Integrated			Aug	195	8				Area P
	5-12	8:50 a.m.	C	1	Integrated			Aug	195	9				Area 4

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LA by Products	5-12-94	10:10 a.m.
RECEIVED BY:	Robert R. Lo	PAI	5/12/94	10:10 a.m.
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				

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Performance Analytical Inc.
Environmental Testing and Consulting

LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	06/02/94
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	05/19/94
	Westlake Village, CA 91362	PAI Project No:	6463
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose Landfill #J-152-6		

Four (4) Tedlar Bags labeled:

"Q-40'" "Q-10'" "P-40'" "Plant Inlet"

The samples were received at the laboratory under chain of custody on May 19, 1994. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

SCAQMD Method 25.2 Analysis

All the samples were analyzed for Total Gaseous Non-Methane Organics, one was analyzed for Carbon Monoxide, and one for Methane according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

Fixed Gases Analysis

One of the Tedlar Bag samples was analyzed for Fixed Gases (Oxygen, Nitrogen, Carbon Monoxide and Methane) and two were analyzed for Methane using a Hewlett Packard Model 5890 gas chromatograph equipped with a thermal conductivity detector (TCD).

Data Release Authorization:

Chris Parnell
Senior Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

002437

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Volatile Organic Compound Analysis

The samples were also analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The method was modified for using Tedlar Bags. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/ cryogenic concentration. The instrumentation used for sample analysis was comprised of a Finnigan Model 4500 GC/MS/DS interfaced to a Tekmar 5010 Automatic Desorber. A thick film (5 micron) crossbonded 100% Dimethylpolysiloxane megabore column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are included on the attached data sheets.

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RESULTS OF TOTAL GASEOUS NON-METHANE ORGANICS (TGNMO) ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6463

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 05/19/94
Date Analyzed: 05/19/94

Client Sample ID	PAI Sample ID	Total Non-Methane Organics (as Methane) Concentration in ppm, v/v Result	Detection Limit
Q-40' (05/19/94)	9402103	450	6.2
Q-10' (05/19/94)	9402104	230	6.2
P-40' (05/19/94)	9402105	230	6.2
P-40' (05/19/94)	Lab Duplicate	230	6.2
Plant Inlet (05/19/94)	9402106	2800	6.2
N/A (05/19/94)	Method Blank	ND	1.0

Client Sample ID	PAI Sample ID	Methane Concentration in ppm, v/v Result	Detection Limit
Q-10' (05/19/94)	9402104	2300	3.1
N/A (05/19/94)	Method Blank	ND	0.50

Client Sample ID	PAI Sample ID	Carbon Monoxide Concentration in ppm, v/v Result	Detection Limit
Plant Inlet (05/19/94)	9402106	ND	9.3
N/A (05/19/94)	Method Blank	ND	1.5

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6463

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 05/19/94
Date Analyzed: 05/19/94

Client Sample ID	PAI Sample ID	Methane (%, v/v) Result	Detection Limit
Q-40' (05/19/94)	9402103	40.1	0.200
P-40' (05/19/94)	9402105	9.76	0.200
N/A (05/19/94)	Method Blank	ND	0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6463

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/19/94
Date Analyzed: 05/19/94

Client Sample ID	PAI Sample ID	Oxygen (%, v/v)	Nitrogen (%, v/v)
Plant Inlet (05/19/94) (13:40)	9402106	0.618	18.8
Plant Inlet (05/19/94) (13:40)	Lab Duplicate	0.636	19.1
N/A (05/19/94)	Method Blank	ND < 0.0300	ND < 0.100

ND = Not Detected - Less Than Indicated Detection Limit

Client Sample ID	PAI Sample ID	Methane (%, v/v)	Carbon Dioxide (%, v/v)
Plant Inlet (05/19/94) (13:40)	9402106	42.4	38.2
Plant Inlet (05/19/94) (13:40)	Lab Duplicate	42.1	38.1
N/A (05/19/94)	Method Blank	ND < 0.0200	ND < 0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Casteel
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 05/20/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97
1722-09-4	Acetonitrile	ND	5.0	ND	2.9

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Plant Inlet (05/19/94) (13:40)

PAI Sample ID: 9402106

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/19/94
Date Analyzed: 05/20/94
Volume Analyzed: 5.0 ml

CAS #	COMPOUND	RESULT (MG/M^3)	DETECTION LIMIT (MG/M^3)	RESULT (PPM)	DETECTION LIMIT (PPM)
75-01-4	Vinyl Chloride	2.3	1.0	0.90	0.39
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene Chloride	0.57 TR	1.0	0.17 TR	0.29
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	5.7	1.0	1.8	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
79-01-6	Trichloroethene	1.6	1.0	0.30	0.19
108-88-3	Toluene	92	1.0	24	0.27
12-18-4	Tetrachloroethene	2.6	1.0	0.39	0.15
108-90-7	Chlorobenzene	7.5	1.0	1.6	0.22
1330-20-7	Total Xylenes	83	1.0	19	0.23
541-34-5	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-73-1	1,4-Dichlorobenzene	2.3	1.0	0.38	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17
100-44-7	Benzyl Chloride	ND	1.0	ND	0.19
1722-09-4	Acetonitrile	1.5	1.0	0.88	0.58

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-40' (05/19/94) (13:35)

PAI Sample ID: 9402105

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/19/94
Date Analyzed: 05/20/94
Volume Analyzed: 0.25 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	590	20	230	7.9
75-35-4	1,1-Dichloroethene	ND	20	ND	5.1
75-09-2	Methylene Chloride	19 TR	20	5.5 TR	5.8
75-34-3	1,1-Dichloroethane	15 TR	20	3.6 TR	5.0
67-66-3	Chloroform	ND	20	ND	4.1
107-06-2	1,2-Dichloroethane	ND	20	ND	5.0
71-55-6	1,1,1-Trichloroethane	45	20	8.4	3.7
71-43-2	Benzene	42	20	13	6.3
56-23-5	Carbon Tetrachloride	ND	20	ND	3.2
79-01-6	Trichloroethene	ND	20	ND	3.8
108-88-3	Toluene	130	20	33	5.3
12-18-4	Tetrachloroethene	ND	20	ND	3.0
108-90-7	Chlorobenzene	60	20	13	4.4
1330-20-7	Total Xylenes	230	20	53	4.6
541-34-5	1,3-Dichlorobenzene	ND	20	ND	3.4
106-73-1	1,4-Dichlorobenzene	ND	20	ND	3.4
95-50-1	1,2-Dichlorobenzene	ND	20	ND	3.4
100-44-7	Benzyl Chloride	ND	20	ND	3.9
1722-09-4	Acetonitrile	ND	20	ND	12

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-10' (05/19/94) (13:20)

PAI Sample ID: 9402104

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/19/94
Date Analyzed: 05/20/94
Volume Analyzed: 0.25 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	350	20	140	7.9
75-35-4	1,1-Dichloroethene	ND	20	ND	5.1
75-09-2	Methylene Chloride	15 TR	20	4.3 TR	5.8
75-34-3	1,1-Dichloroethane	ND	20	ND	5.0
67-66-3	Chloroform	ND	20	ND	4.1
107-06-2	1,2-Dichloroethane	ND	20	ND	5.0
71-55-6	1,1,1-Trichloroethane	39	20	7.2	3.7
71-43-2	Benzene	25	20	7.9	6.3
56-23-5	Carbon Tetrachloride	ND	20	ND	3.2
79-01-6	Trichloroethene	ND	20	ND	3.8
108-88-3	Toluene	110	20	30	5.3
12-18-4	Tetrachloroethene	ND	20	ND	3.0
108-90-7	Chlorobenzene	ND	20	ND	4.4
1330-20-7	Total Xylenes	210	20	47	4.6
541-34-5	1,3-Dichlorobenzene	ND	20	ND	3.4
106-73-1	1,4-Dichlorobenzene	ND	20	ND	3.4
95-50-1	1,2-Dichlorobenzene	ND	20	ND	3.4
100-44-7	Benzyl Chloride	ND	20	ND	3.9
1722-09-4	Acetonitrile	ND	20	ND	12

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-40' (05/19/94) (12:55)

PAI Sample ID: 9402103

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 05/19/94
Date Analyzed: 05/20/94
Volume Analyzed: 0.25 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	940	20	370	7.9
75-35-4	1,1-Dichloroethene	ND	20	ND	5.1
75-09-2	Methylene Chloride	19 TR	20	5.7 TR	5.8
75-34-3	1,1-Dichloroethane	ND	20	ND	5.0
67-66-3	Chloroform	ND	20	ND	4.1
107-06-2	1,2-Dichloroethane	ND	20	ND	5.0
71-55-6	1,1,1-Trichloroethane	46	20	8.5	3.7
71-43-2	Benzene	37	20	11	6.3
56-23-5	Carbon Tetrachloride	ND	20	ND	3.2
79-01-6	Trichloroethene	ND	20	ND	3.8
108-88-3	Toluene	120	20	32	5.3
12-18-4	Tetrachloroethene	ND	20	ND	3.0
108-90-7	Chlorobenzene	18 TR	20	3.9 TR	4.4
1330-20-7	Total Xylenes	200	20	47	4.6
541-34-5	1,3-Dichlorobenzene	ND	20	ND	3.4
106-73-1	1,4-Dichlorobenzene	ND	20	ND	3.4
95-50-1	1,2-Dichlorobenzene	ND	20	ND	3.4
100-44-7	Benzyl Chloride	ND	20	ND	3.9
1722-09-4	Acetonitrile	ND	20	ND	12

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	PERIMETER PROBE SAMPLES PLANT INLET SAMPLE	J152-6	5-19-94

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: Clay T. Fennelt #6463

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC						Fixed Gas	REMARKS
	5/19/94	1255	G	1	Q-40'	✓	✓		940	210	3			TOC = 30%
	"	1320	G	1	Q-10'	✓	✓		940	210	4			TOC = ND
	"	1335	G	1	P-40'	✓	✓		940	210	5			TOC = 10%
	"	1340	G	1	Plant Inlet	✓	✓		940	210	6		✓	TOC ~ 40%

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Clay T. Fennelt	Sepich Assoc.	5/19/94	1450
RECEIVED BY:	John D. Lo	PAI	5-19-94	14:50
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

LA By Products 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	06/22/94 06/22/94 06/25/94
Attn: Robert McAllister RE: J152-6/Penrose Landfill	Work Order No.: Method: Page 1 of 1	94-06-359 SCAQMD 25.1

All total non-methane hydrocarbon concentrations contained herein are reported in ppm (v/v).

Sample Number	NMOC Concentration	Reportable Limit
Probe 'P' 10'	28.7	1.0
Probe 'Q' 60'	134	1.0
Plant Inlet	694	1.0
Area A-B	16.4	1.0
Area 18-19	13.6	1.0
Method Blank	ND	1.0

Sample Number	Sample Conc.	Duplicate Conc.	%RPD	Control Limit%
Plant Inlet Duplicate	694	683	1.6	0 - 25

Reviewed and Approved William H. Christensen on 07/01/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

LA By Products	Date Sampled:	06/22/94
1810 East 25th Street	Date Received:	06/22/94
Los Angeles, CA 90058	Date Analyzed:	06/25/94
	Work Order No.:	94-06-359
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: J152-6/Penrose Landfill	Page 1 of 2	

All concentration values are reported in ppm (v/v).

Sample Number: Plant Inlet

Analyte	Concentration	Reportable Limit
Oxygen	16300	1000
Nitrogen	228000	1000
Methane	404000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	356000	1000

Sample Number: Method Blank

Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000

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ANALYTICAL REPORT

LA By Products	Date Sampled:	06/22/94
1810 East 25th Street	Date Received:	06/22/94
Los Angeles, CA 90058	Date Analyzed:	06/25/94
	Work Order No.:	94-06-359
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: J152-6/Penrose Landfill	Page 2 of 2	

All concentration values are reported in ppm (v/v).

Sample Number: Plant Inlet Duplicate

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limit%
Oxygen	16300	17900	9.36	0 - 25
Nitrogen	228000	232000	1.74	0 - 25
Methane	404000	402000	0.5	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	356000	352000	1.13	0 - 25

Reviewed and Approved William H. Christensen on 07/01/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

LA By Products	Date Sampled:	06/22/94
1810 East 25th Street	Date Received:	06/22/94
Los Angeles, CA 90058	Date Analyzed:	06/25/94
	Work Order No.:	94-06-359
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: J152-6/Penrose Landfill	Page 1 of 2	

NMOC concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Probe 'P' 10'

Analyte	Concentration	Reportable Limit
Methane	18.2	1.0
NMOC	28.7	1.0

Sample Number: Probe "Q' 60'

Methane	251000	1000
NMOC	134	1.0

Sample Number: Plant Inlet

Methane	404000	1000
NMOC	694	1.0

Sample Number: Area A-B

Methane	304	1.0
NMOC	16.4	1.0

Sample Number: Area 18-19

Methane	14.9	1.0
NMOC	13.6	1.0

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ANALYTICAL REPORT

LA By Products	Date Sampled:	06/22/94
1810 East 25th Street	Date Received:	06/22/94
Los Angeles, CA 90058	Date Analyzed:	06/25/94
	Work Order No.:	94-06-359
Attn: Robert McAllister	Method:	SCAQMD 25.1
RE: J152-6/Penrose Landfill	Page 2 of 2	

NMOC concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank #1

Analyte	Concentration	Reportable Limit
Methane	ND	1.0
NMOC	ND	1.0

Sample Number: Method Blank #2

Methane	ND	1000

QA/QC

Sample Number: Plant Inlet (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limit%
Methane	404000	402000	0.5	0 - 25
NMOC	694	683	1.6	0 - 25

Reviewed and Approved William H. Christensen on 07/07/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

LA By Products	Date Sampled:	06/22/94
1810 East 25th Street	Date Received:	06/22/94
Los Angeles, CA 90058	Date Analyzed:	06/25/94
	Work Order No.:	94-06-359
Attn: Robert McAllister	Method: EPA TO-14 (1150.1 Compounds)	
RE: J152-6/Penrose Landfill	Page 3 of 7	

All concentrations are reported in ppb (v/v).

Sample Number: Plant Inlet

Analyte	Concentration	Reportable Limit
Acetonitrile	ND	500
Benzene	970	100
Benzyl Chloride	ND	100
Carbon Tetrachloride	ND	100
Chlorobenzene	510	100
Chloroform	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100
1,1-Dichloroethane	ND	100
1,2-Dichloroethane	ND	100
1,1-Dichloroethene	ND	100
Methylene Chloride	170	100
Tetrachloroethene	350	100
Toluene	8260	100
1,1,1-Trichloroethane	ND	100
Trichloroethene	260	100
Vinyl Chloride	735	100
Total Xylenes	7100	200

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ANALYTICAL REPORT

LA By Products	Date Sampled:	06/22/94
1810 East 25th Street	Date Received:	06/22/94
Los Angeles, CA 90058	Date Analyzed:	06/25/94
	Work Order No.:	94-06-359
Attn: Robert McAllister	Method: EPA TO-14 (1150.1 Compounds)	
RE: J152-6/Penrose Landfill	Page 4 of 7	

All concentrations are reported in ppb (v/v).

Sample Number: Area A-B

Analyte	Concentration	Reportable Limit
Acetonitrile	ND	1
Benzene	6.2	0.4
Benzyl Chloride	ND	0.4
Carbon Tetrachloride	ND	0.4
Chlorobenzene	ND	0.4
Chloroform	ND	0.4
1,3-Dichlorobenzene	ND	0.4
1,4-Dichlorobenzene	ND	0.4
1,2-Dichlorobenzene	ND	0.4
1,1-Dichloroethane	ND	0.4
1,2-Dichloroethane	ND	0.4
1,1-Dichloroethene	ND	0.4
Methylene Chloride	7.64	0.4
Tetrachloroethene	0.48	0.4
Toluene	14.9	0.4
1,1,1-Trichloroethane	7.12	0.4
Trichloroethene	ND	0.4
Vinyl Chloride	ND	0.4
Total Xylenes	10.4	0.8

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ANALYTICAL REPORT

LA By Products	Date Sampled:	06/22/94
1810 East 25th Street	Date Received:	06/22/94
Los Angeles, CA 90058	Date Analyzed:	06/25/94
	Work Order No.:	94-06-359
Attn: Robert McAllister	Method: EPA TO-14 (1150.1 Compounds)	
RE: J152-6/Penrose Landfill	Page 5 of 7	

All concentrations are reported in ppb (v/v).

Sample Number: Area 18-19

Analyte	Concentration	Reportable Limit
Acetonitrile	408	1
Benzene	6.58	0.4
Benzyl Chloride	ND	0.4
Carbon Tetrachloride	ND	0.4
Chlorobenzene	ND	0.4
Chloroform	ND	0.4
1,3-Dichlorobenzene	ND	0.4
1,4-Dichlorobenzene	ND	0.4
1,2-Dichlorobenzene	ND	0.4
1,1-Dichloroethane	ND	0.4
1,2-Dichloroethane	ND	0.4
1,1-Dichloroethene	ND	0.4
Methylene Chloride	7.74	0.4
Tetrachloroethene	ND	0.4
Toluene	16.3	0.4
1,1,1-Trichloroethane	4.44	0.4
Trichloroethene	ND	0.4
Vinyl Chloride	ND	0.4
Total Xylenes	10.4	0.8

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ANALYTICAL REPORT

LA By Products	Date Sampled:	06/22/94
1810 East 25th Street	Date Received:	06/22/94
Los Angeles, CA 90058	Date Analyzed:	06/25/94
	Work Order No.:	94-06-359
Attn: Robert McAllister	Method: EPA TO-14 (1150.1 Compounds)	
RE: J152-6/Penrose Landfill	Page 6 of 7	

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Acetonitrile	8.12	0.5
Benzene	ND	0.2
Benzyl Chloride	ND	0.2
Carbon Tetrachloride	ND	0.2
Chlorobenzene	ND	0.2
Chloroform	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2
1,1-Dichloroethane	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1-Dichloroethene	ND	0.2
Methylene Chloride	ND	0.2
Tetrachloroethene	ND	0.2
Toluene	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Trichloroethene	ND	0.2
Vinyl Chloride	ND	0.2
Total Xylenes	ND	0.4

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ANALYTICAL REPORT

LA By Products	Date Sampled:	06/22/94
1810 East 25th Street	Date Received:	06/22/94
Los Angeles, CA 90058	Date Analyzed:	06/25/94
	Work Order No.:	94-06-359
Attn: Robert McAllister	Method: EPA TO-14 (1150.1 Compounds)	
RE: J152-6/Penrose Landfill	Page 7 of 7	

All concentrations are reported in ppb (v/v).

Sample Number: 94-06-372-4 Duplicate

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limit%
Acetonitrile	ND	ND	NA	0 - 30
Benzene	162	171	5.4	0 - 30
Benzyl Chloride	ND	ND	NA	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30
1,1-Dichloroethane	ND	ND	NA	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	37	38	2.67	0 - 30
Tetrachloroethene	45	43	4.55	0 - 30
Toluene	265	263	0.76	0 - 30
1,1,1-Trichloroethane	ND	ND	NA	0 - 30
Trichloroethene	ND	ND	NA	0 - 30
Vinyl Chloride	ND	ND	NA	0 - 30
Total Xylenes	997	936	6.31	0 - 30

Reviewed and Approved William H. Christensen on 07/01/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL chilled, intact, and with chain-of-custody attached.

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ANALYTICAL REPORT

Los Angeles By Products 1810 East 25th Street Los Angeles, CA 90058	Date Sampled: Date Received: Date Analyzed:	07/01/94 07/01/94 07/04/94
Attn: Mike McAllister RE: Penrose Landfill/J152-6	Work Order No.: Method: SCAQMD 25.1 (Methane) Page 1 of 1	94-07-024

All concentration values are reported in ppm (v/v).

Sample Number	Methane Concentration	Reportable Limit
P 40'	2720	1000
P 80'	32000	1000
P 120'	33600	1000
Q 10'	7.48	1.0
Q 40'	178000	1000
Method Blank #1	ND	1000
Method Blank #2	ND	1.0

QA/QC

Sample Number	Sample Conc.	Dup. Conc.	%RPD	Control Limits (%)
94-07-029-4 (Duplicate)	53.5	53.7	0.37	0-25

Reviewed and Approved [signature] for on 07/14/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

Los Angeles By Products 1810 East 25th Street Los Angeles, CA 90058		Date Sampled: Date Received: Date Analyzed:	07/01/94 07/01/94 07/04/94
Attn: Mike McAllister RE: Penrose Landfill/J152-6		Work Order No.: Method: SCAQMD 25.1 (TGNMO) Page 1 of 1	94-07-024

All concentration values are reported in ppm (v/v) as methane.

Sample Number	TGNMO Concentration	Reportable Limit
P 40'	247	1.0
P 80'	80.1	1.0
P 120'	101	1.0
Q 10'	19.4	1.0
Q 40'	192	1.0
Method Blank	ND	1.0

QA/QC

Sample Number	Sample Conc.	Dup. Conc.	%RPD	Control Limits (%)
94-07-029-4 (Duplicate)	1180	1180	0	0-25

Reviewed and Approved William H. Christensen on 07/14/1994
William H. Christensen
Deliverables Manager

TGNMO denotes total gaseous non-methane organic compounds.
ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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ANALYTICAL REPORT

Los Angeles By Products		Date Sampled:	07/01/94
1810 East 25th Street		Date Received:	07/01/94
Los Angeles, CA 90058		Date Analyzed:	07/03/94
		Work Order No.:	94-07-024
Attn: Mike McAllister		Method:	EPA TO-14 (BTEX)
RE: Penrose Landfill/J152-6		Page 1 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: P 40'		
Acetonitrile	7940	250
Benzene	ND	100
Benzyl Chloride	ND	100
Carbon Tetrachloride	ND	100
Chlorobenzene	ND	100
Chloroform	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100
1,1-Dichloroethane	ND	100
1,2-Dichloroethane	ND	100
1,1-Dichloroethene	ND	100
Methylene Chloride	310	100
Tetrachloroethene	235	100
Toluene	490	100
1,1,1-Trichloroethane	ND	100
Trichloroethene	ND	100
Vinyl Chloride	ND	100
Total Xylenes	1080	200

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ANALYTICAL REPORT

Los Angeles By Products
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 07/01/94
Date Received: 07/01/94
Date Analyzed: 07/03/94

Attn: Mike McAllister
RE: Penrose Landfill/J152-6

Work Order No.: 94-07-024
Method: EPA TO-14 (BTEX)

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: P 80'		
Acetonitrile	4620	250
Benzene	ND	100
Benzyl Chloride	ND	100
Carbon Tetrachloride	ND	100
Chlorobenzene	ND	100
Chloroform	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100
1,1-Dichloroethane	ND	100
1,2-Dichloroethane	ND	100
1,1-Dichloroethene	ND	100
Methylene Chloride	105	100
Tetrachloroethene	160	100
Toluene	350	100
1,1,1-Trichloroethane	ND	100
Trichloroethene	ND	100
Vinyl Chloride	ND	100
Total Xylenes	790	200

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1810 East 25th Street		Date Received:	07/01/94
Los Angeles, CA 90058		Date Analyzed:	07/03/94
		Work Order No.:	94-07-024
Attn: Mike McAllister		Method:	EPA TO-14 (BTEX)
RE: Penrose Landfill/J152-6		Page 3 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: P 120'		
Acetonitrile	4410	250
Benzene	ND	100
Benzyl Chloride	ND	100
Carbon Tetrachloride	ND	100
Chlorobenzene	ND	100
Chloroform	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100
1,1-Dichloroethane	ND	100
1,2-Dichloroethane	ND	100
1,1-Dichloroethene	ND	100
Methylene Chloride	ND	100
Tetrachloroethene	135	100
Toluene	305	100
1,1,1-Trichloroethane	ND	100
Trichloroethene	ND	100
Vinyl Chloride	250	100
Total Xylenes	650	200

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ANALYTICAL REPORT

Los Angeles By Products 1810 East 25th Street Los Angeles, CA 90058		Date Sampled: Date Received: Date Analyzed:	07/01/94 07/01/94 07/03/94
Attn: Mike McAllister RE: Penrose Landfill/J152-6		Work Order No.: Method: Page 4 of 7	94-07-024 EPA TO-14 (BTEX)

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Q 10'		
Acetonitrile	1580	50
Benzene	ND	20
Benzyl Chloride	ND	20
Carbon Tetrachloride	ND	20
Chlorobenzene	ND	20
Chloroform	ND	20
1,3-Dichlorobenzene	ND	20
1,4-Dichlorobenzene	ND	20
1,2-Dichlorobenzene	ND	20
1,1-Dichloroethane	ND	20
1,2-Dichloroethane	ND	20
1,1-Dichloroethene	ND	20
Methylene Chloride	ND	20
Tetrachloroethene	34	20
Toluene	89	20
1,1,1-Trichloroethane	ND	20
Trichloroethene	ND	20
Vinyl Chloride	ND	20
Total Xylenes	211	40

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Los Angeles By Products		Date Sampled:	07/01/94
1810 East 25th Street		Date Received:	07/01/94
Los Angeles, CA 90058		Date Analyzed:	07/03/94
		Work Order No.:	94-07-024
Attn: Mike McAllister		Method:	EPA TO-14 (BTEX)
RE: Penrose Landfill/J152-6		Page 5 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Q 40'		
Acetonitrile	4140	500
Benzene	ND	100
Benzyl Chloride	ND	100
Carbon Tetrachloride	ND	100
Chlorobenzene	ND	100
Chloroform	ND	100
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100
1,1-Dichloroethane	ND	100
1,2-Dichloroethane	ND	100
1,1-Dichloroethene	ND	100
Methylene Chloride	ND	100
Tetrachloroethene	120	100
Toluene	270	100
1,1,1-Trichloroethane	ND	100
Trichloroethene	ND	100
Vinyl Chloride	265	100
Total Xylenes	660	200

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Los Angeles, CA 90058		Date Analyzed:	07/03/94
		Work Order No.:	94-07-024
Attn: Mike McAllister		Method:	EPA TO-14 (BTEX)
RE: Penrose Landfill/J152-6		Page 6 of 7	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Acetonitrile	ND	0.5
Benzene	ND	0.2
Benzyl Chloride	ND	0.2
Carbon Tetrachloride	ND	0.2
Chlorobenzene	ND	0.2
Chloroform	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2
1,1-Dichloroethane	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1-Dichloroethene	ND	0.2
Methylene Chloride	ND	0.2
Tetrachloroethene	ND	0.2
Toluene	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Trichloroethene	ND	0.2
Vinyl Chloride	ND	0.2
Total Xylenes	ND	0.4

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Los Angeles By Products
1810 East 25th Street
Los Angeles, CA 90058

Date Sampled: 07/01/94
Date Received: 07/01/94
Date Analyzed: 07/03/94

Work Order No.: 94-07-024
Method: EPA TO-14 (BTEX)
Page 7 of 7

Attn: Mike McAllister
RE: Penrose Landfill/J152-6

All concentrations are reported in ppb (v/v).

QA/QC

Analyte	Sample Conc.	Dup. Conc.	RPD%	Control Limits (%)
Sample Number: P 120' (Duplicate)				
Acetonitrile	4410	4320	2.06	0-30
Benzene	ND	ND	NA	0-30
Benzyl Chloride	ND	ND	NA	0-30
Carbon Tetrachloride	ND	ND	NA	0-30
Chlorobenzene	ND	ND	NA	0-30
Chloroform	ND	ND	NA	0-30
1,3-Dichlorobenzene	ND	ND	NA	0-30
1,4-Dichlorobenzene	ND	ND	NA	0-30
1,2-Dichlorobenzene	ND	ND	NA	0-30
1,1-Dichloroethane	ND	ND	NA	0-30
1,2-Dichloroethane	ND	ND	NA	0-30
1,1-Dichloroethene	ND	ND	NA	0-30
Methylene Chloride	ND	ND	NA	0-30
Tetrachloroethene	135	135	0	0-30
Toluene	305	310	1.62	0-30
1,1,1-Trichloroethane	ND	ND	NA	0-30
Trichloroethene	ND	ND	NA	0-30
Vinyl Chloride	250	265	5.83	0-30
Total Xylenes	650	705	8.12	0-30

Reviewed and Approved William H. Christensen on 07/14/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Public Facilities Branch / SCAQMD July 21, 1994

EXHIBIT E

Documentation of Mitigation Measures

Second Quarter, 1994

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Penrose-Final Well Schedule June 2, 1994

Well #	Shallow Well Depth	Deep Well Depth	Shallow Slot Line	Deep Slot Line
W1		70		25
W2		80		45
W3		73		36
W4		55		20
W5	32	80	10	30
W6	30	75	10	25
W7	30	75	10	25
W8		64		20

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REFUSE & DRILLING CONDITION

PROJECT NAME Penrose PROJECT NUMBER Well W-1
TECHNICIAN C. Schever DATE: 4-20-94

DEPTH	COMPOSITION	LEVEL OF DECOMPOSITION	% OF ESTIMATED MOISTURE	COMMENTS
0-4'	dirt Cover	—	dry	
4'-10'	Paper Trash Plastic	Medium	dry	Newspaper 1981
10'-20'	Wood Paper	Medium	20 %	
20'-30'	Household Trash	medium	20 %	
30'-40'	Plastic Paper Trash	medium	20 %	Newspaper 1976
40'-50'	wood Tire Trash	well	30 %	
50'-60'	Paper Plastic dirt	well	20 %	Newspaper - 1975
60'-70'	Paper Plastic	Slight	10 %	
				At 66' rock and sand.
				Drilled To 73' all sand and rock.
				Set 70' well
				45' of Solid pipe
				25' of Slotted Pipe

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REFUSE & DRILLING CONDITION

PROJECT NAME Penrose PROJECT NUMBER Well W-2

TECHNICIAN C. Schever DATE: 4-26-94

DEPTH	COMPOSITION	LEVEL OF DECOMPOSITION	% OF ESTIMATED MOISTURE	COMMENTS
0-8'	dirt Cover	—	dry	
8'-20	Concrete wood paper plastic	Slight	dry	
20-30	Household trash paper	medium	10 %	
30-40	wood - tire carpet	medium	10 %	
40'-50'	cardboard Trash concrete	medium	10 %	
50'-60'	Household trash wood	medium	5 %	
60'-70'	paper plastic dirt	medium	5 %	1974 newspaper
70'-80'	plastic rock	Slight	dry	
72'				At 72' rock and Sand
72'-78'	rock and Sand	—	dry	
				Set ~~on~~ 80' well
				35' of Solid pipe
				45' of slotted pipe

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REFUSE & DRILLING CONDITION

PROJECT NAME Penrose PROJECT NUMBER well W-3

TECHNICIAN C. Scherer DATE: 4-22-94

DEPTH	COMPOSITION	LEVEL OF DECOMPOSITION	% OF ESTIMATED MOISTURE	COMMENTS
0'-15'	dirt cover	—	dry	
15'-30'	Household Trash	medium	5 %	
30'-40	Plastic Paper	medium	10 %	
40'-50'	" "	medium	10 %	1977 newspaper
50'-60'	sand and rock	—	dry	
60'-70'	sand rock paper	slight	dry	
68'	sand and rock	—	dry	
68'-73'	sand and rock	—	dry	
				set ~~at~~ 73' well
				37' of solid pipe
				36' of slotted pipe

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REFUSE & DRILLING CONDITION

PROJECT NAME Penrose PROJECT NUMBER well W-4

TECHNICIAN C Schever DATE: 4-27-94

DEPTH	COMPOSITION	LEVEL OF DECOMPOSITION	% OF ESTIMATED MOISTURE	COMMENTS
0-8'	dirt Cover	—	dry	
10'-20'	Household trash	slight	dry	
20'-30'	Tire " Plastic	slight	dry	
30'-40'	paper Trash plastic	slight	5 %	
40'-50'	wood Sand paper	slight	dry	
50'	Sand and rock	—	dry	
50'-55'	Sand and rock	—	dry	
				set a 55' well
				35' of Solid pipe
				20' of slotted pipe

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REFUSE & DRILLING CONDITION

PROJECT NAME Penrose PROJECT NUMBER well w-5
TECHNICIAN C. Scherer DATE: 4-21-94

DEPTH	COMPOSITION	LEVEL OF DECOMPOSITION	% OF ESTIMATED MOISTURE	COMMENTS
0-3'	dirt cover	—	dry	
3'-10'	Household Trash	slight	dry	
10'-20'	wood concrete	slight	dry	
20'-30'	paper cloth plastic	slight	5 %	
30'-40'	Household wood Trash	medium	10 %	
40'-50'	paper dirt cloth	medium	5 %	1977 Newspaper
50-60	Household trash	medium	5 %	
60'-70'	wood-paper	medium	5 %	1976 newspaper
70'-77'	cloth wood paper	medium	5 %	
77'	sand and rock	—	dry	
				set a 80' well
				Duplex
			A-well	= 50' of solid pipe
				30' of slotted pipe
			B-well	= 22' of solid pipe
				10' of slotted pipe

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REFUSE & DRILLING CONDITION

PROJECT NAME Penrose PROJECT NUMBER Well W-6

TECHNICIAN C. Scherer DATE: 2-25-94

DEPTH	COMPOSITION	LEVEL OF DECOMPOSITION	% OF ESTIMATED MOISTURE	COMMENTS
0 - 8'	dirt cover	—	5 %	
8' - 20'	Household trash	slight	10 %	
20' - 30'	wood - plastic	medium	10 %	
30' - 40'	cloth - paper	medium	5 %	
40' - 50'	Tree stump paper plastic	medium	5 %	
50' - 60'	cloth wood paper	medium	5 %	
60' - 70'	Household Trash paper	medium	5 %	
70' - 75'	dirt paper plastic	slight	5 %	
				set a 75' duplex well
			A =	50' of solid pipe
				25' of slotted pipe
			B =	20' of solid pipe
				10' of slotted pipe

002474

CONFIDENTIAL

PACIFIC ENERGY
6255 East Washington Boulevard
Commerce, California 90040
Telephone (213) 725-1139
Telecopier (213) 725-8772
A SUBSIDIARY OF PACIFIC ENTERPRISES

REFUSE & DRILLING CONDITION

PROJECT NAME Penrose PROJECT NUMBER Well W-7

TECHNICIAN C Scherer DATE: 2-23, 24-94

DEPTH	COMPOSITION	LEVEL OF DECOMPOSITION	% OF ESTIMATED MOISTURE	COMMENTS
0-10'	dirt, paper cover	—	5 %	
10'-20'	Carpet, Tires wood	Medium	10 %	
20'-30'	rock, Tree stump wood	medium	10 %	
30'-40'	wood, paper, Paper plastic	Slight	5 %	
40'-50'	Household trash, wood	Medium	10 %	1977 Newspaper
50'-60'	Cloth, paper, Paper	Slight	5 %	
60'-70'	dirt, plastic	Slight	5 %	
72'	rock and sand	—	dry	
				Set @ 75' duplex well
			A =	50' of Solid pipe
				25' of Slotted pipe
			B =	20' of Solid pipe
				10' of Slotted pipe

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Commerce, California 90040
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A SUBSIDIARY OF PACIFIC ENTERPRISES

REFUSE & DRILLING CONDITION

PROJECT NAME Penrose PROJECT NUMBER well W-8

TECHNICIAN C Scherer DATE: 4-27-94

DEPTH	COMPOSITION	LEVEL OF DECOMPOSITION	% OF ESTIMATED MOISTURE	COMMENTS
0-8'	dirt Cover	—	dry	
16'-20'	Household trash paper	medium	10 %	
20'-30'	wood plastic	medium	10 %	
30'-40'	palm Tree paper plastic paper	Slight	10 %	
40-50	wood Concrete	Slight	10 %	
56'	rock & Sand	—	5 %	
56'-61'	rock & Sand	—	5 %	
				Set w 64' well
				44' of Solid pipe
				20' of Slotted pipe

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Sepich Associates Inc.

METHANE SPECIALISTS

3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362

TEL (818) 707-3036
(805) 373-9321

FAX (818) 707-3012
(805) 373-8987

October 7, 1994

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Third Quarter, 1994
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the fourth quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period July - September, 1994. Monitoring and sampling for this report was performed on July 6, 15, 28, and 29; August 5, 6, 17, 18, and 19; and September 7, 9, 20, and 23, 1994.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

General:

To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements pending results from initial monitoring. The Rule also requires plant inlet gas analyses on a quarterly basis and simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B, Table I for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring paths A and B). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection a of 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of information are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

General:

During this past monitoring period, July through September 1994, field monitoring and sampling was conducted on July 6, July 15, July 28, July 29, August 5, August 6, August 17, August 18, August 19, September 7, September 9, September 20, and September 23, 1994. Perimeter probe, power plant inlet, and integrated surface samples were collected for laboratory analysis on July 28, August 17, and September 20, 1994.

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on July 15, July 29, August 5, August 19, September 9, and September 23, 1994 was conducted by Smith-Emery personnel using a Bacharach H Combustible Gas Detector. Probe sampling was conducted by Los Angeles By-Products personnel on July 28, August 17, and September 20, 1994.

Tedlar bag samples were collected using the direct pump sampling procedure. The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Calscience Environmental Laboratories, Inc. (CEL), a certified analytical laboratory in Stanton, California, within 24 hours of sampling.

Perimeter probe sampling was conducted at Probes P, and Q on July 28 and August 17, and at Probe Q on September 20, 1994. A map of probe locations can be found in Exhibit A and perimeter probe monitoring data sheets are included in Exhibit C.

B.2 Integrated Surface Sampling

Integrated surface sampling was conducted on July 28, August 17, and September 20, 1994 by focusing sampling efforts in zones where previously conducted instantaneous surface monitoring had found the highest TOC concentrations. During instantaneous surface monitoring on July 6, and August 6, 1994, no detectable TOC readings registered on the Foxboro #128 organic vapor analyzer (OVA). A minimum of two integrated surface samples are required, even if no instantaneous emissions > 500 ppmv are found. In July, two areas, Areas U and H were randomly selected for the integrated sampling. On August 17, 1994, the same two areas (Areas AB and 18/19) sampled in June were sampled for integrated samples. On September 7, 1994 one area (Area L) yielded an OVA TOC reading of 6 ppmv. In September, Areas L and 18/19 were sampled for integrated samples.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. A map showing the areas of integrated surface sampling is included in Exhibit A.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring was conducted on July 6, August 6, and September 7, 1994. On July 6 and August 6 no areas had detectable TOC readings. On September 7, 1994 one area (Area L, 300 feet south of Probe L) yielded an OVA TOC reading of 6 ppmv. No other detectable levels of TOC were recorded. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling

10-liter bag samples were collected from the Pacific Energy electrical generation plant input pipeline on July 28, August 19, and September 20, 1994.

B.6 Reporting Requirements

This is the fourth in a series of quarterly reports for Penrose Landfill. Los Angeles By-Products hereby solicits any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

General: Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring had been performed bi-monthly by Smith-Emery Company. Their mid-month data was used to select the monthly probe sampling stations and the end-of-month monitoring was used to fulfill the follow-up probe monitoring requirement. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Performance Analytical Inc. and Calscience Environmental Laboratories, Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I, II, and III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

July 15, 1994 monitoring results showed the five highest combustible gas readings at Probes Q (32% @ 40'and 24% @ 10') and P (18% @ 40' and 6% @ 120'). July 1994 perimeter probe data is summarized in Table I.

Table I - July 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON July 15, 1994

Probe Number	Screen Depth (feet)	Field Values 7/15/94 1500 hr. (% Vol)	Field Values 7/28/94 0800 hr. (% Vol)	Lab Results 7/28/94 0800 hr. (% Vol)	Field Values 7/29/94 1515 hr. (% Vol)
P	10'	2%	NC	NC	12%
P	40'	18%	0.04%	0.43%	4%
P	80'	2%	NC	NC	5%
P	120'	6%	ND	2.1%	8%
Q	10'	24%	ND	28.9%	31%
Q	40'	32%	ND	22.9%	32%
Q	80'	2%	NC	NC	8%

Note: Laboratory samples were collected 7/28/94. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected. ND None detected.

August 5, 1994 monitoring results showed the highest combustible gas readings at Probes P (12% @ 10', 8% @ 120', and 6% @ 80') and Q (40% @ 40', 35% @ 10', and 6% @ 80'). August 1994 perimeter probe data is summarized in Table II. Only one other probe yielded a detectable combustible gas reading (Probe P @ 40' registered 3%).

Table II - August 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON August 5, 1994

Probe Number	Screen Depth (feet)	Field Values 8/5/94 1530 hr. (% Vol)	Field Values 8/18/94 0900 hr. (% Vol)	Lab Results 8/17/94 (% Vol)	Field Values 8/19/94 0900 hr. (% Vol)
P	10'	12%	ND	0.0002%	ND
P	40'	3%	NC	NC	ND
P	80'	6%	NC	NC	ND
P	120'	8%	ND	1.22%	ND
Q	10'	35%	ND	0.00024%	2%
Q	40'	40%	13%	1.03%	13%
Q	80'	6%	ND	1.94%	4%

Note: Laboratory samples were collected 8/17/94. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected. ND None detected.

September 9, 1994 monitoring results showed the highest combustible gas readings at Probe Q (10% @ 40'and 3% @ 10'). September 1994 perimeter probe data is summarized in Table III. Only one other probe yielded a detectable combustible gas readings (2% @ 10' in Probe R).

Table III - September 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON September 9, 1994

Probe Number	Screen Depth (feet)	Field Values 9/9/94 1530 hr. (% Vol)	Field Values 9/20/94 (% Vol)	Lab Results 9/20/94 (% Vol)	Field Values 9/23/94 (% Vol)
Q	10′	3%	NC	NC	2%
Q	40′	10%	NC	17.80%	16%
R	10′	2%	NC	NC	ND

Note: Laboratory samples were collected 9/20/94. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected. ND None detected.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane by SCAQMD Method 25.2 and by GC/TCD, for total NMHC by SCAQMD Method 25.2, and for VOC by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC for this quarter. VOC analytical results are included in Exhibit D.

Table IV - THIRD QUARTER 1994
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA		CH_4 (PPMV)	NMHC (PPMV)
7/28/94	AREA U	9.27	13.8
7/28/94	AREA H	5.94	15.4
8/17/94	AREA AB	2.53	3.53
8/17/94	AREA 18/19	3.94	2.98
9/20/94	AREA L	4.4	17.9
9/20/94	AREA 18-19	3.2	18.3

Note: Sample Areas are designated according to nearest perimeter probes.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, no OVA readings above 500 ppmv were detected during the Third Quarter of 1994 (the only OVA reading above ND was 6 ppmv, detected in Area L on September 7).

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results for the samples collected at the plant inlet were 40.6% methane in July, 37.8% methane in August, and 38.3% methane in September. Analytical results for fixed gases, NMHC, and core group toxic air contaminants are included in Exhibit D.

Los Angeles By-Products hereby solicits any SCAQMD comments regarding procedures and reports for this project. If you have any questions or would like some of supporting data or documentation please call us at (818)-707-3036.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the current monitoring and laboratory results, mitigation measures are being implement as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37808
JUN. 30 1996
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.604/atf

Public Facilities Branch / SCAQMD October 7, 1994

(1 copy submitted)

Distribution: Los Angeles By-Products Company

- Mr. Mike McAllister

  City of Los Angeles, Department of Environmental Affairs

- Ms. Tania Weaver

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location Map, Integrated Surface Sampling Map and Traverse Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Reports and Data - Third Quarter, 1994
- EXHIBIT D: Laboratory Analytical Results - Third Quarter, 1994

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Public Facilities Branch / SCAQMD October 7, 1994

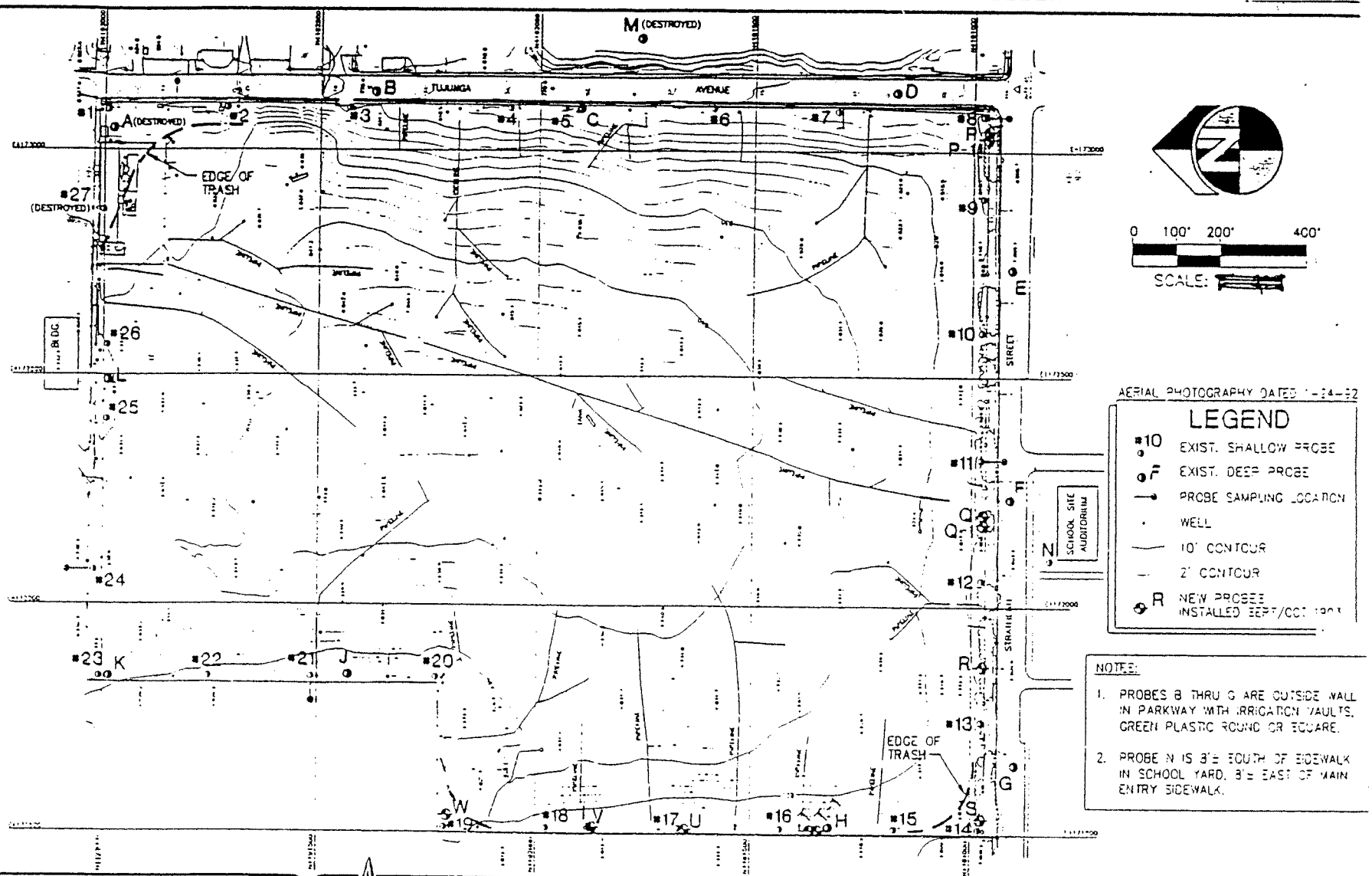
EXHIBIT A

Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps



Drawing prepared by:

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987
CIVIL ENGINEERS SANITARY ENVIRONMENTAL WASTE AND WETLANDS SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE PIT

PROBE LOCATIONS

CONFIDENTIAL

002488

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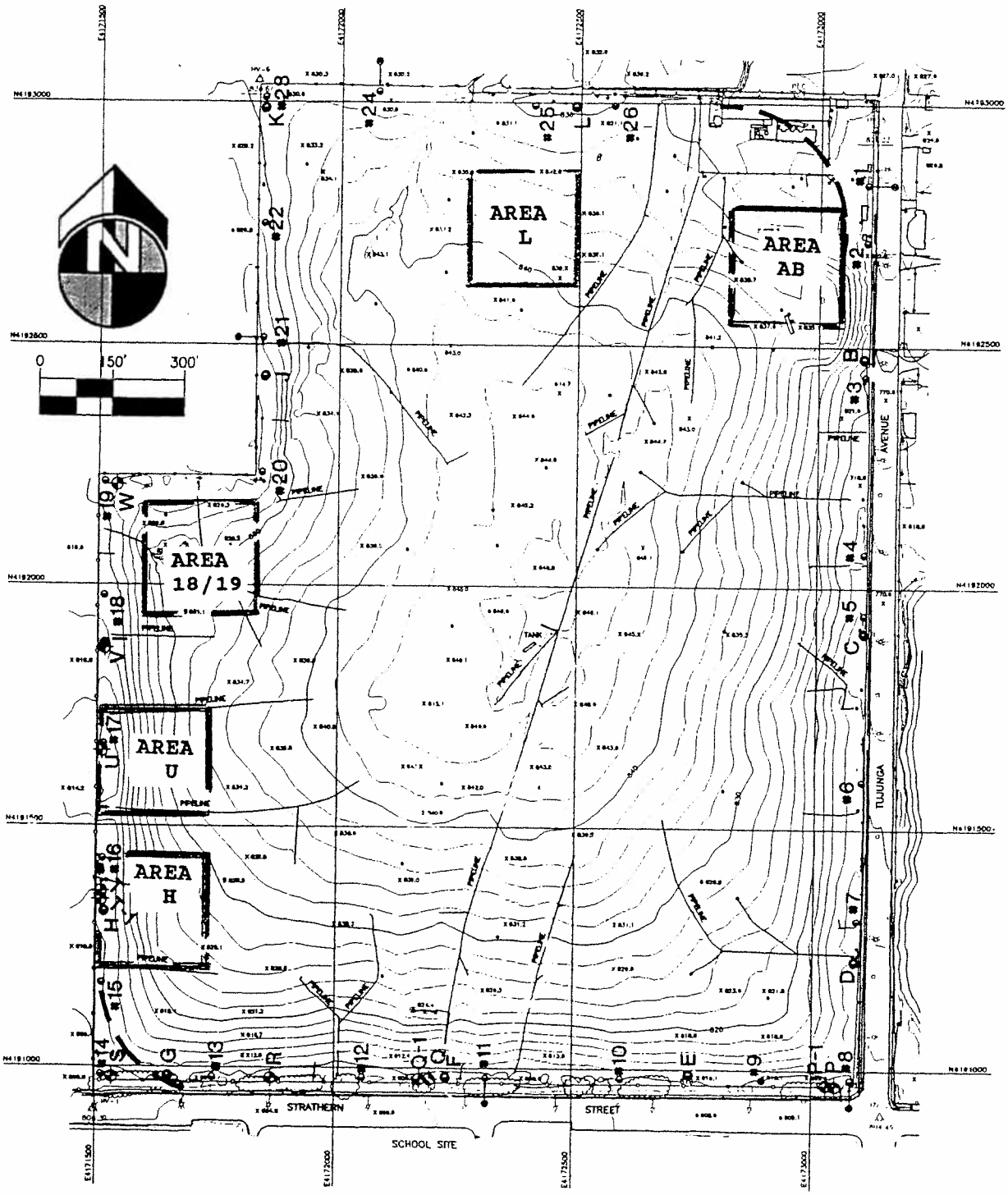
SAMPLING DATE 3rd QUARTER - 1994 SAMPLER'S NAME



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CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING

10/6/94 J152-ISS

SHEET OF

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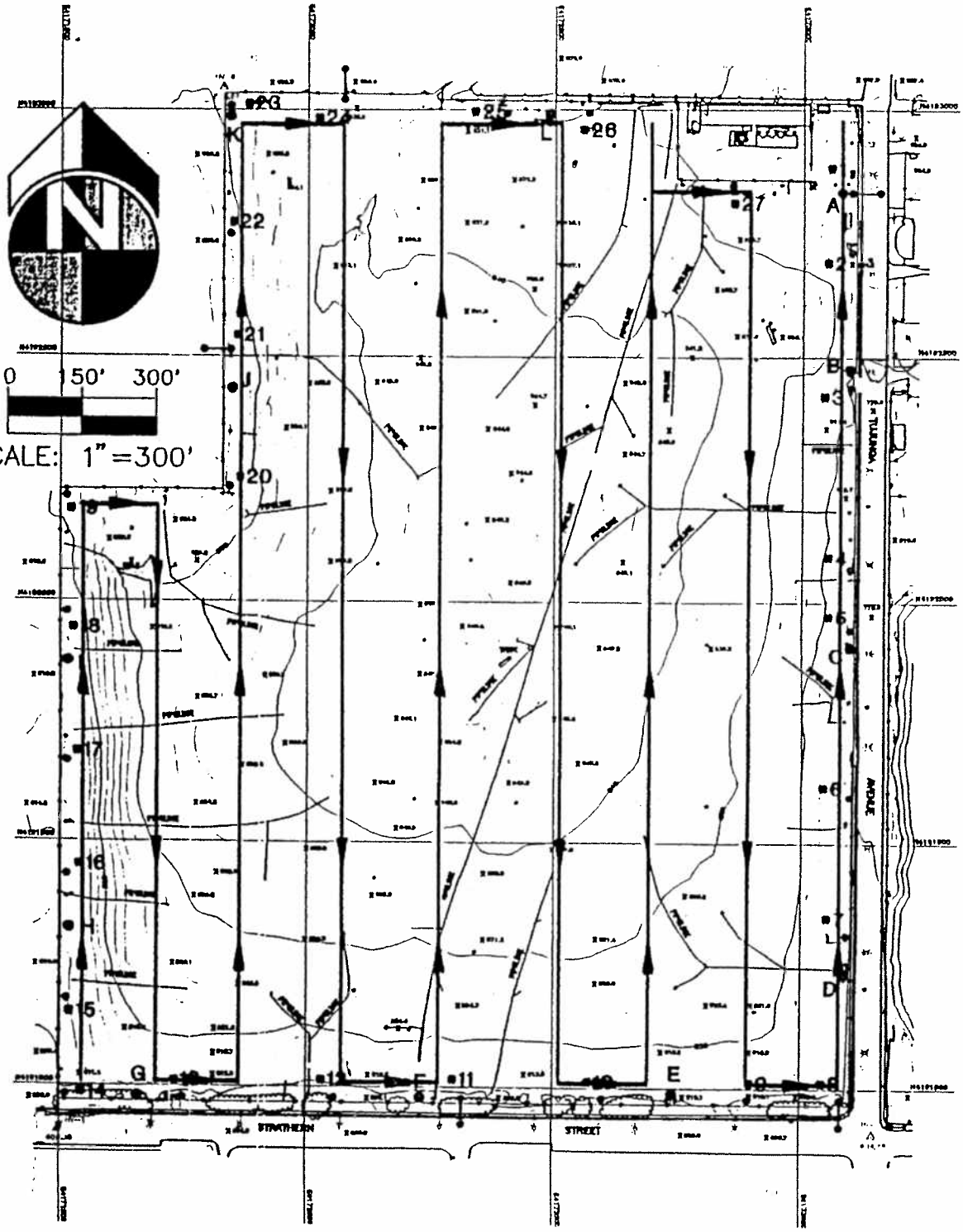
INSTANTANEOUS SURFACE MONITORING



PATH A

Drawing prepared by:
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For:
Los Angeles By-Products Co.
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Performance Analytical Inc.
Environmental Testing and Consulting

20954 Osborne Street
Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	PAI Project No.
SEPICH ASSOCIATES	818-707-3036	5945
Project Location	**Client Project No.**	
PENROSE LANDFILL	J-152-6	
Contact	**Sampler (Signature)**	**P.O. No.**
JOHN SEPICH	[signature]	

ANALYSES

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	AQMD CORE TOXICS (NO H_2S)	METHANE + TOTAL NON-METHANE HC	FIXED GASES AND O_2				Expected Turnaround Time	Remarks
P-10	12-21-93	09:00	9305218	AIR	X	X						
P-40	12-21-93	09:00	9305219		X	X						
Q-10		09:00	9305220		X	X						
Q-40		09:00	9305221		X	X						
ISS-1		15:00	9305222		X	X						
ISS-2		15:00	9305223		X	X						
ISS-3		15:00	9305224		X	X						
ISS-4		15:00	9305225		X	X						
ISS-5		15:00	9305226		X	X						
PLANT INLET		15:00	9305227		X	X	X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12-22-93	07:25	[signature]	12/22/93	07:22
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Disposal Method

Disposed by: (Signature) | Date | Time

White Copy : Accompanies Samples

Yellow Copy : Sampler

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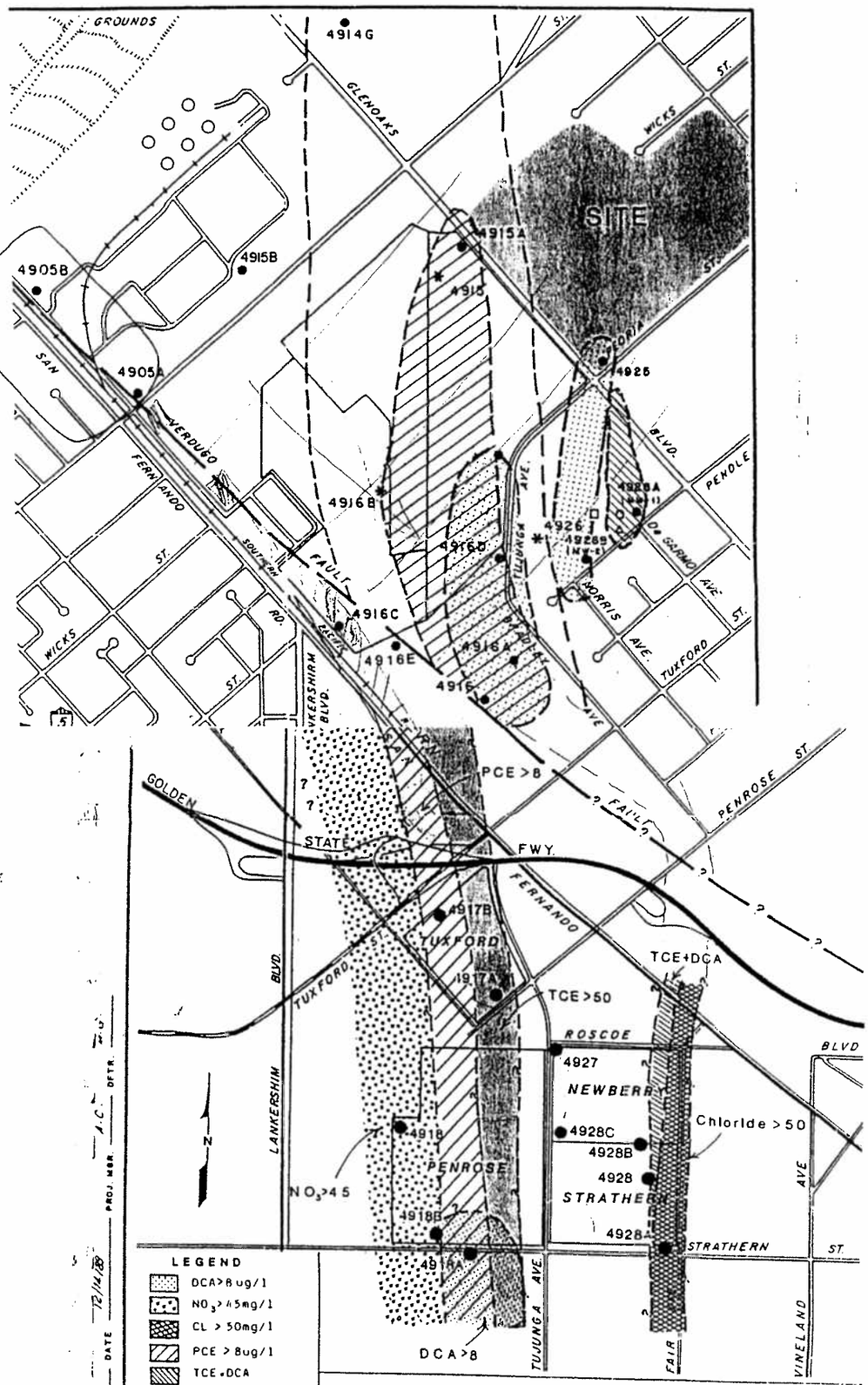
002824

CONFIDENTIAI

Wells were clean



AREAL DISTRIBUTION OF CHEMICALS

LAW ENVIRONM

DETERICH POST REORDER NO. 138233

002491

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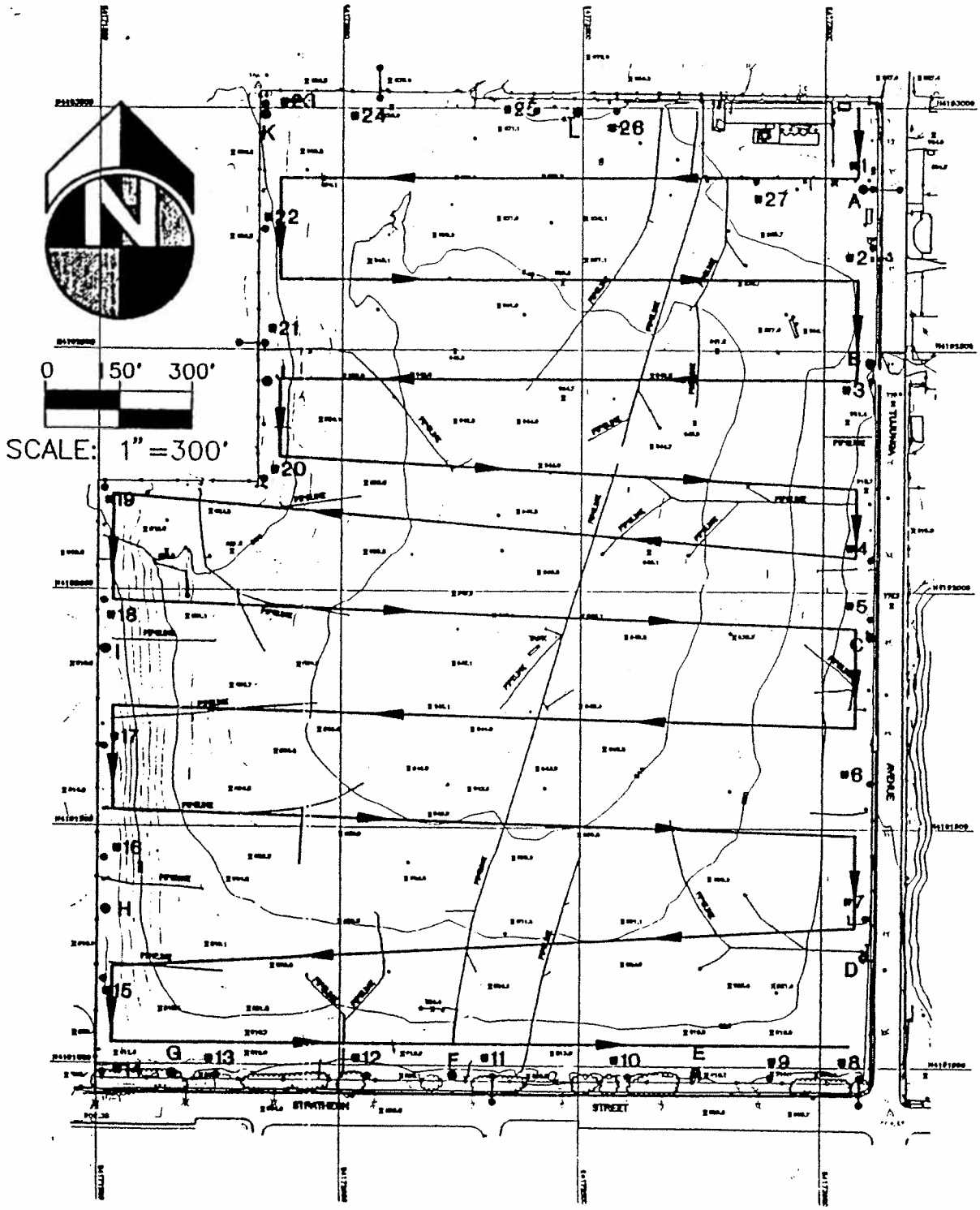
INSTANTANEOUS SURFACE MONITORING



PATH B

Drawing prepared by:
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Public Facilities Branch / SCAQMD October 7, 1994

EXHIBIT B

Core Group Toxic Air Contaminants

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TABLE I: TOXIC AIR CONTAMINANTS -- CORE GROUP

1. Acetonitrile CH_3CN
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1 Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2 Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1 Dichloroethene (Vinylidene Chloride) $CH_2:CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C:CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1 Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichloroethylene $CHCl:CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2:CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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Public Facilities Branch / SCAQMD October 7, 1994

EXHIBIT C

Field Reports and Data - Third Quarter, 1994

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8967

JOB NAME: Penrose Landfill

JOB No. J152-6
DATE 07 / 06 / 94

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F | still, breeze, wind | dry, moderate, humid

LOCATION: Penrose

PURPOSE: Instantantaneous Surface MOnitor

CONTRACTOR(S): Robert McAllister

REMARKS: Path 'B' was followed bycontractor in accordance with alternation of previous month path way. Contractor began survey at 8:45AM. Weather was cloudy, cool and no detection of wind. The instruments used in test was the foxboro 128 and an electronic wind speed indicator. The contractor received 'ND' in completion of survey. During monitor contractor directed instrument intake wand toward most probable areas, cracks and holes. Upon termination of survey wind velocity was 3.1-3.3 with a steady breeze The monitor was completed at 11:15 am., with sunny weather and quite warm tempatures. Last recorded precipatation at location was over 2 months ago.

☐ REINSPECTION REQUIRED

INSPECTOR

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Penrose Methane Monitoring

Date 07/15/94 Tech. M2

Sample Point #	% LEL	% by Vol	Sample Point	% LEL	% by Vol
1		ND	S-80'		ND
2		ND	S-120'		ND
3		ND	14		ND
4		ND	15		ND
5		ND	H		ND
6		ND	T-10'		ND
7		ND	T-40'		ND
8		ND	T-80'		ND
P-10'		2	T1-72'		ND
P-40'		18	16		ND
P-80'		2	U-37'		ND
P1-120'		6	U-68'		ND
9		ND	U-10'		ND
10		ND	17		ND
11		ND	V-10'		ND
Q-10'		24	V-40'		ND
Q-40'		32	V-80'		ND
Q-80'		2	W-10'		ND
Q1-120'		ND	W-40'		ND
Q1-160'		ND	W-80'		ND
12		ND	W-120'		ND
R-10'		ND	W-153'		ND
R-40'		ND	20		ND
R-80'		ND	J		ND
R-120'		ND	21		ND
13		ND	22		ND
S-10'		ND	23		ND
S-40'		ND	24		ND

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Penrose Methane Monitoring

Date 07/15/94 Tech. MZ

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol.	
25		ND					
K		ND					
26		ND					
B		ND					
C		ND					
D		ND					
E		ND					
F		ND					
G		ND					
N		ND					

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JOB NAME: Penrose

JOB No. 5152-6
DATE 7/28/94

INSPECTION REPORT

CLIMATE: (bright) clear fog cloudy overcast rain | <32° F 33°-55° 56°-70° 71°-85° (86°-100°) >100° F | (still) breeze wind | dry moderate (humid)

LOCATION: Penrose

PURPOSE: Integrated Surface Sampling and Perimeter Probe Sampling

CONTRACTOR(S): Robert McAllister

REMARKS: Two area samples and four perimeter probes Samples were collected on the twenty eighth of July 1994. A portable self contained unit with its own internal power supply collected two samples in 10-liter sample bags. The temperature during air sample collection was quite warm and humid. The wind velocity was low .1 to .5 mph. The time of the first surface sample 'U', was completed at 10:40 a.m. The second surface sample 'H', was completed at 11:05 a.m.

☐ REINSPECTION REQUIRED

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FAX: (818) 707-3012 (805) 373-6987

JOB NAME: Penrose

JOB No. J152-6
DATE 7/28/94

REMARKS CONTINUED:

~~Flame~~ Probe sample P 40' was completed at 8:00 am. with the Natural Gas Indicator showing <1%. The Foxboro showed 400 ppm. from the bag sample. 'P' 120' probe was sampled at 8:30 am and also showed to be less than 1%. Probe Q 10' was sampled at 9:05 am, and readings was less than 1%. Q 40' probe was completed at 9:35 am. Flame of Foxboro went out and was unable to be used in the testing of surface air samples. Instruments used in testing was the Foxboro 128 and a Natural Gas Indicator model NP-204 and an electronic wind speed indicator. Air samples were placed into large black trash bags immediately following collection to avoid sunlight.

INSPECTOR

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Incorporated 1975
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Tel: (213) 233-4175 Fax: (213) 231-4170

PENROSE LANDFILL

Date 7/25/94

Job # J152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME	11:32 Am	
INSTRUMENT	Natural	Gas Indicator
PARAMETER		

REMARKS: High Clouds with high humidity was present. The Sun was Bright and low velocity winds (.3 - 1.7 mph). The temperature Rose considerably throughout Sampling.

PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

PROBE #		%	Time
	B		
C	GREEN-21'		
C	YELLOW-41'		
C	ORANGE-61'		
C	RED-81'		
	D		
	E		
	F		
	G		
	H		
I	GREEN-17'		
I	YELLOW-37'		
I	ORANGE-57'		
I	RED-77'		
	J		
	K		
L	GREEN-45'		
L	YELLOW-85'		
L	ORANGE-85'		
L	RED-105'		
	M		
N	GREEN-22'		
N	YELLOW-45'		
N	ORANGE-68'		
N	RED-90'		
P	10'		
P	40'	>1%	8:00 Am
P	80'		
P-1	120'	>1%	8:30 Am

PROBE #		%	Time
Q	10'	>1%	9:05 Am
Q	40'	>1%	9:35 Am
Q	75'		
Q-1	120'		
Q-1	158'		
R	10'		
R	40'		
R	80'		
R	120'		
S	10'		
S	40'		
S	80'		
S	120'		
T	10'		
T	40'		
T	73'		
T-1	72'		
U	10'		
U	37'		
U	68'		
V	10'		
V	40'		
V	73'		
W	10'		
W	40'		
W	80'		
W	120'		
W	158'		

002501

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Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

August 3, 1994

FILE NO: 70237

LAB NO: 4214145800

SAMPLE: On 07/29/94, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	8
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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Pacific Lighting Energy Systems
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6055 E. Washington Blvd.
Commerce, CA 90040

August 3, 1994

FILE NO: 70237

LAB NO: 4214145800

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	12
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	4
Orange	ND	Orange	ND	Orange	ND	@ 80'	5
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	31	@ 120'	ND	@ 18'	ND	@ 10'	ND
@ 40'	32	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	8			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. C.D. Van Gorden

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Los Angeles By Products
Attn: C. D. Van Gorden
1810 East 25th Street
Los Angeles, CA 90058

August 17, 1994

RECEIVED
AUG 1 - 1994

FILE NO: 6022

LAB NO: 4228160900

SAMPLE: On 08/05/94, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	8
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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Los Angeles By Products
Attn: C. D. Van Gorden
1810 East 25th Street
Los Angeles, CA 90058

August 17, 1994

FILE NO: 6022

LAB NO: 4228160900

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	12
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	3
Orange	ND	Orange	ND	Orange	ND	@ 80'	6
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	35	@ 120'	ND	@ 18'	ND	@ 10'	ND
@ 40'	40	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	6			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

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JOB NAME: Penrose

JOB No. 5152-6

DATE 8/6/94

INSPECTION REPORT

CLIMATE: (bright) clear fog | cloudy overcast rain | <32° F 33°-55° 56°-70° | 71°-85° (86°-100°) >100° F | (still) breeze wind | dry moderate (humid)

LOCATION: Penrose

PURPOSE: Instantaneous Surface monitor

CONTRACTOR(S): Robert McAllister

REMARKS: Monitor began at 8:30 am. with no detection of wind. The sun was bright and humidity levels were high. The instrument used was the Foxboro 128. The path taken, pathway 'A', was completed by contractor at 10:53 am. By the end of the monitor the wind velocity came up to 3.3 to 5.1 with gusts and no evidence of clouds were observed. The result of monitor was ND.

☐ REINSPECTION REQUIRED

INSPECTOR

Robert McAllister 8/6/94
PRINCIPAL

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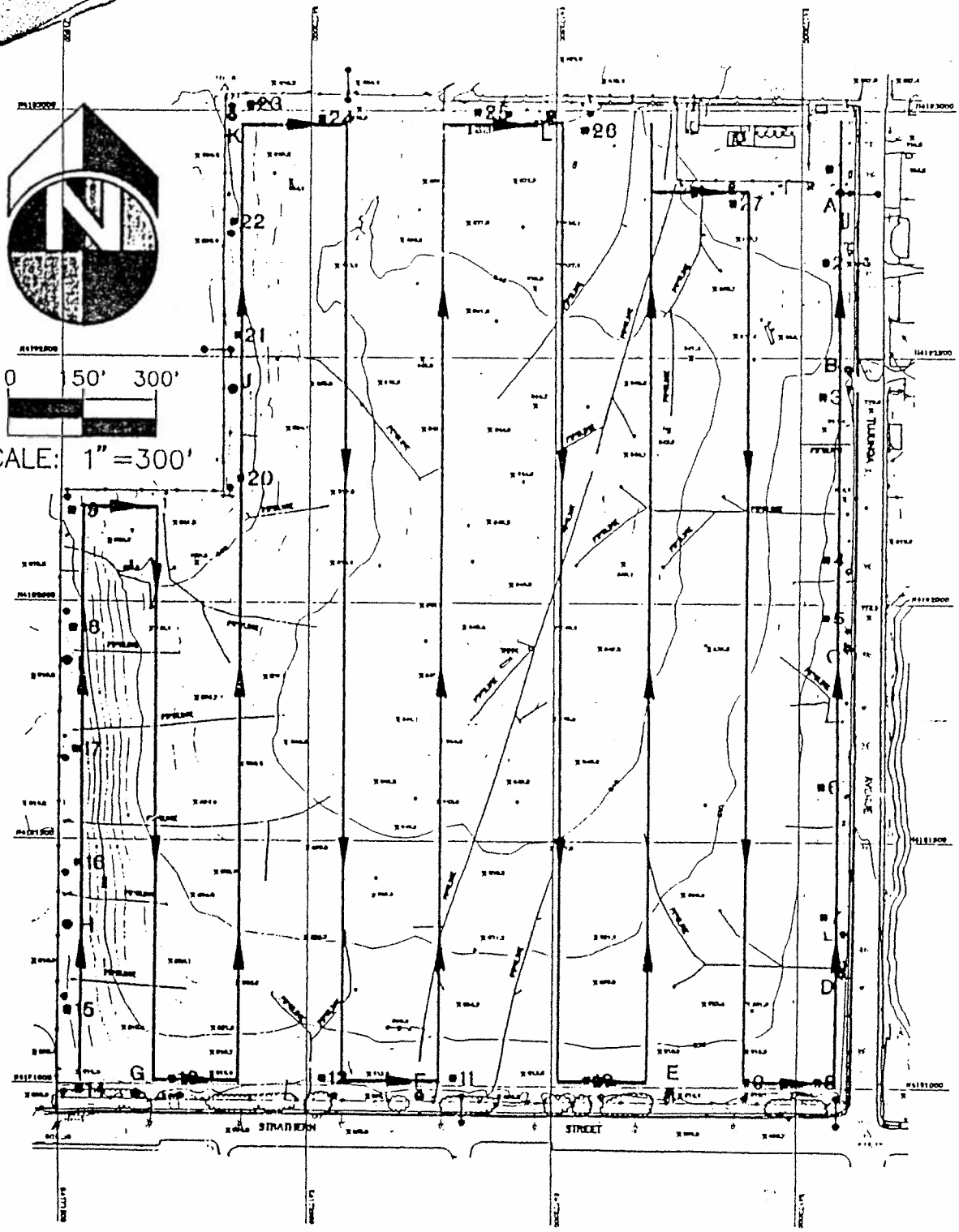
...NUOUS SURFACE MONITORING



PATH A

Drawing prepared by:
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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: TIDWSE

JOB No. 5152-6

DATE 8/17/94

REMARKS CONTINUED:

RESULTING WITH ND. CONTRACTOR WALKED THE SAMPLE AREA FOR APPROXIMATELY 25 MINUTES WHILE THE UNIT GATHERED AIR FOR BAG SAMPLE. THE OTHER SURFACE SAMPLE UNIT WAS CONTINUED AT 7:55 AM AND RESULTED WITH A ND by FOLLOWING THE DURING COLLECTION OF SAMPLE CONTRACTOR EXPERIENCED SHARP WIND, WITH UNSTABLE WEATHER.

PLANT INLET SAMPLE WAS COLLECTED AT TED PHILLIPS, WHICH RESULTED IN A READING OF 44% by the COMBUSTIBLE GAS INDICATOR, AT 7:40 AM.

THE FOLLOWING FOUR SAMPLES WERE COLLECTED IN 10-LITER TEDLAR BAGS, WHICH WERE PLACED INTO ONE LARGE BLACK BAG TO AVOID SUNLIGHT. EACH PROBE SAMPLE WAS PURGED BY HAND FOR FIVE MINUTES OF PURGING TO ASSURE A CONSTANT READING. ALL SAMPLES WERE TESTED WITH NATIONAL GAS INDICATOR, MODEL NP-204.

INSPECTOR

Robert Mc Allister 8/17/94
PRINCIPAL

ISA0075 4/15/94

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JOB NAME: PENROSE

JOB No. J152-6

DATE 8/17/94

REMARKS CONTINUED:

PROBE SAMPLE P 40' WAS TAKEN AT 9:50 AM AND A 10% RESULT WITH GAS INDICATION. SAMPLE P 80' AT 10:00 AM RESULTED AND NO PROBE SAMPLE 50' AT 10:55 AM RESULTED WITH A 2%. PROBE SAMPLE P 10' AT 11:20 AM RESULTED ND. PROBE SAMPLE P 120' AT 11:55 AM RESULTED A 2%.

CORRESPONDING INTEGRATED SURFACE SAMPLE PIPES WERE SELF MASKED ON ACCOMPANYING MAP.

CALIBRATION OF OVA USED 50ppm AND 500ppm KNOWN SAMPLES SELF CONTAINED SAMPLES. LINE RECORDED IRRITATION WAS SUPPRESSED DURING AND SELECTION OF SURFACE SAMPLES INCORPORATED PAST DETECTIONS IN PARTICULAR AREAS.

INSPECTOR

Robert McCartney 8/17/94
PRINCIPAL

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JOB NAME: PENROSE

JOB No. 3152-6
DATE 8/18/94

INSPECTION REPORT

CLIMATE: bright / cloudy / clear / overcast / fog / rain — <32° F / 33°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F — still / breeze / wind — dry / moderate / humid

LOCATION: PENROSE

PURPOSE: HYDROGEN SULFIDE TESTING

CONTRACTOR(S): ROBERT MCALLISTER TED PHILLIPS

REMARKS: SKC COLOR FILTER TUBES WERE USED WITH HAND PUMP TO DETERMINE H_2S GAS. CONTRACTORS USED INSTRUMENT TO TEST THE SAME. BOTH DEVICES SHOWED ON 8/17/94 BEFORE TEST OF EVERY PROBE. AT 8 MINUTES OF PURGING WAS CONDUCTED BY CONTRACTORS. ALL PROBES WERE TESTED WITH A MAXCORE GAS INDICATOR USED TO H_2S TEST, MODEL NO-BAT.

☐ REINSPECTION REQUIRED

INSPECTOR

PRINCIPAL 8/18/94

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JOB NAME: [illegible]

JOB No. 5152-6

DATE 8/19/94

REMARKS CONTINUED: [illegible] I [illegible] RECEIVED A 13% TOC AND ND H_2S TEST AT 9:00 AM PROBE 2 10' RECEIVED ND TOC AND ND H_2S TEST, AT 9:15 AM PROBE 2 80' RECEIVED ND TOC AND ND H_2S TEST AT 9:20 AM. PROBE P 10' RECEIVED ND TOC AN ND H_2S AT 9:35 AM. PROBE P 120' RECEIVED ND TOC AND ND H_2S TEST

A PLANT VENT TEST RECEIVED A 115 Level of H_2S AT 10:00 AM. THIS TEST INVOLVED A ONE LITER TEDLAR BAG. A WHICH ~~[illegible]~~ H_2S LEVEL WAS DETERMINED FROM.

INSPECTOR

Robert [illegible] 8/19/94
PRINCIPAL

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Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
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PENROSE LANDFILL

Date 8-18-94
Job # J152-6

GAS CONCENTRATIONS

INITIALS		
TIME	830-1000hr 8/17 900-1000hr 8/18	
INSTRUMENT	Foxboro 128	Dräger
PARAMETER	TOC	H_2S
PROBE #	% Vol	ppm
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
ISS AB	ND*	
ISS 18/19	ND*	

REMARKS: * parameter measured 8-17-94
* * TOC measured w/ Foxboro 128
Parameters measured by Robert Mc Allister & Ted Phillips of LABPC - Data transferred from Inspection Reports by Alex Feurbst. TOC w/ Natural Gas Indicator Model NP-204 % vol; H_2S by Dräger tube

PROBE #		TOC %	H_2S ppm
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'	ND	ND
	40'		
	80'		
P-1	120'	ND	ND

PROBE #		TOC %	H_2S ppm
Q	10'	ND	ND
	40'	13	ND
	75'	ND	ND
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
PLANT INLET		44*	115

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
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WESTLAKE VILLAGE, CA. 91362
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Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 East Washington Blvd.
Commerce, CA 90040

August 30, 1994

FILE NO: 70237

LAB NO: 4238173600

SAMPLE: On 08/19/94, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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SMITH-EMERY COMPANY
The Full Service Independent Testing Laboratory, Established 1904

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P.O. Box 880550, Hunter's Point Shipyard Bldg. 114 • San Francisco, California 94188 • (415) 330-3000 • Fax (415) 330-3030
5427 East La Palma Avenue • Anaheim, California 92807 • (714) 693-1026 • Fax (714) 693-1034

Pacific Lighting Energy Systems
Attn: Vicki Castle
6055 E. Washington Blvd.
Commerce, CA 90040

August 30, 1994

FILE NO: 70237

LAB NO: 4238173600

(1) Site C	Percent Methane	(22) Site I	Percent Methane	(33) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	2	@ 120'	ND	@ 18'	ND	@ 10'	ND
@ 40'	13	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	4			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori

Shahid Noori
Organic Chemistry Supervisor

cc: Los Angeles By Products, Attn. C.D. Van Gorden

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Los Angeles By Products
Attn: C. D. Van Gorden
1810 East 25th Street
Los Angeles, CA 90058

September 13, 1994

FILE NO: 6022

LAB NO: 4256093700

SAMPLE: On 09/09/94, a Smith-Emery Company representative visited the site of the Penrose Landfill bordered by Strathern St. and Tujunga Ave. and monitored the gas sampling sites around the Landfill. The concentration of methane was determined by utilizing a Johnson-Williams model "H" Gas Pointer with the following results:

Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane	Sample Site	Percent Methane
1	ND	13	ND	25	ND	N	(3)*
2	ND	14	ND	26	ND	P	(4)*
3	ND	15	ND	B	ND	P1@120'	ND
4	ND	16	ND	C	(1)*	Q	(5)*
5	ND	17	ND	D	ND	Q1	(6)*
6	ND	18	ND	E	ND	R	(7)*
7	ND	19	ND	F	ND	S	(8)*
8	ND	20	ND	G	ND	T	(9)*
9	ND	21	ND	H	ND	T1-72'	ND
10	ND	22	ND	I	(2)*	U	(10)*
11	ND	23	ND	J	ND	V	(11)*
12	ND	24	ND	K	ND	W	(12)*

*See following page for methane results

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Los Angeles By-Products
Attn: C.D. Van Gorden
1810 East 25th Street
Los Angeles, CA 90058

September 13, 1994

FILE NO: 6022

LAB NO: 4256093700

(1) Site C	Percent Methane	(2) Site I	Percent Methane	(3) Site N	Percent Methane	(4) Site P	Percent Methane
Red	ND	Red	XX	Red	ND	@ 10'	ND
Yellow	ND	Yellow	XX	Yellow	ND	@ 40'	ND
Orange	ND	Orange	ND	Orange	ND	@ 80'	ND
Green	ND			Green	ND		

(5) Site Q	Percent Methane	(6) Site Q1	Percent Methane	(7) Site R	Percent Methane	(8) Site S	Percent Methane
@ 10'	3	@ 120'	ND	@ 10'	2	@ 10'	ND
@ 40'	10	@ 160'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND			@ 80'	ND	@ 80'	ND
				@ 120'	ND	@120'	ND

(9) Site T	Percent Methane	(10) Site U	Percent Methane	(11) Site V	Percent Methane	(12) Site W	Percent Methane
@ 10'	ND	@ 10'	ND	@ 10'	ND	@ 10'	ND
@ 40'	ND	@ 37'	ND	@ 40'	ND	@ 40'	ND
@ 80'	ND	@ 68'	ND	@ 80'	ND	@ 80'	ND
						@ 120'	ND
						@ 153'	ND

X Sample sites are NOT clearly marked
XX Sample sites are NOT accessible

Respectfully submitted,

SMITH-EMERY COMPANY

Shahid Noori
Organic Chemistry Supervisor

cc: Pacific Lighting Energy Products, Attn. Vicki Castle

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CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA 91362
TEL: (818) 707-3016 (805) 373-9371
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6
DATE 09/07/94

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain; <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F; still, breeze, wind; dry, moderate, humid

LOCATION: PENROSE

PURPOSE: INSTANTANEOUS SURFACE MONITOR

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was clear on the day of September 7, 1994. The last precipitation was over one month ago. The monitor began at 8:48 am and concluded at 10:47 Am. The contractor followed path 'B' in alternation from the last month. The ova instrument used in monitor was the FOXBORO 128 which had a Hydrogen level of 1600, and was last calibrated on the sixth of September 94'

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET 1 OF 2

002517

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FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6
DATE 09/07/94

REMARKS CONTINUED: by ROBERT McAllister and Ted Phillips. The one detection of 06 ppm. that the contractor discovered is marked as area L on accompanying map. The Contractor used a electronic wind speed indicator to detect a ND of wind speed.

Robert McAllister
INSPECTOR

PRINCIPAL

SHEET 2 OF 2

002518

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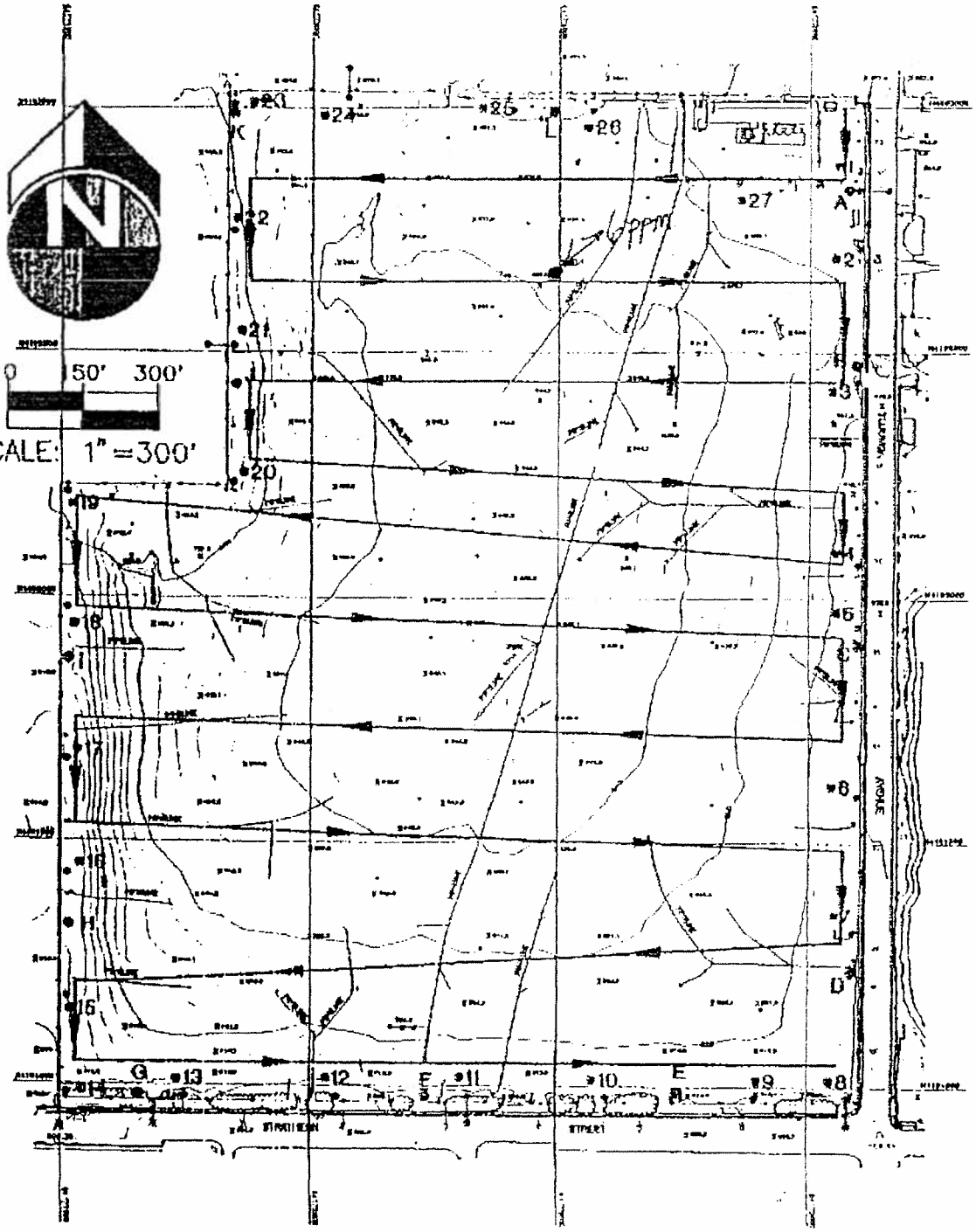
INSTANTANLOUS SURFACL MONITORING



PATH B

Drawing prepared by:

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For:

Los Angeles By-Products Co.
Incorporated 1925
7810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

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TEL: (818) 707-3036 (805) 373-9371
FAX: (818) 707-3012 (805) 373-8087

JOB NAME: PENROSE

JOB No. 5152-6
DATE 09/20/94

INSPECTION REPORT

CLIMATE: bright / clear / fog / cloudy / overcast / rain

<37° F / 37°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F

still / breeze / wind

dry / moderate / humid

LOCATION: PENROSE

PURPOSE: INTEGRATED SURFACE SAMPLES

CONTRACTOR(S): ROBERT McAllister

REMARKS: The weather was cool with a high layer of clouds for the collection of samples on September 20, 1994. The contractor evaluated the wind speed of .9 to 2.4 mph with an electronic wind speed indicator. Both air samples were collected with a self contained unit that is portable with its own internal power supply. The OVA instrument used to test samples after collection was the

☐ REINSPECTION REQUIRED

Robert McAllister
INSPECTOR

PRINCIPAL

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9371
FAX: (818) 707-3012 (805) 373-6067

JOB NAME: Penrose

JOB No. J152-6
DATE 09/20/94

REMARKS CONTINUED: Foxboro 128. A Drager pump and drager tubes were used to test the H_2S levels of the air samples.

The first sample labelled '18/19' was collected at 8:43 AM with resulted in a ND by the OVA instrument and the Drager tests. The second integrated surface sample was gathered at 10:29 AM which was labelled 'L'. This sample resulted with 3 ppm by the OVA instrument and a ND by the Drager tests. Both sample areas are labelled on accompanying map. The last calibration of the Foxboro 128 instrument was September 6, 1994. All air samples were taken with 10 liter tedlar bags, that were placed in a Black trash bag upon completion of testing. To protect from Sunlight.

INSPECTOR

PRINCIPAL

SHEET ___ OF ___

002521

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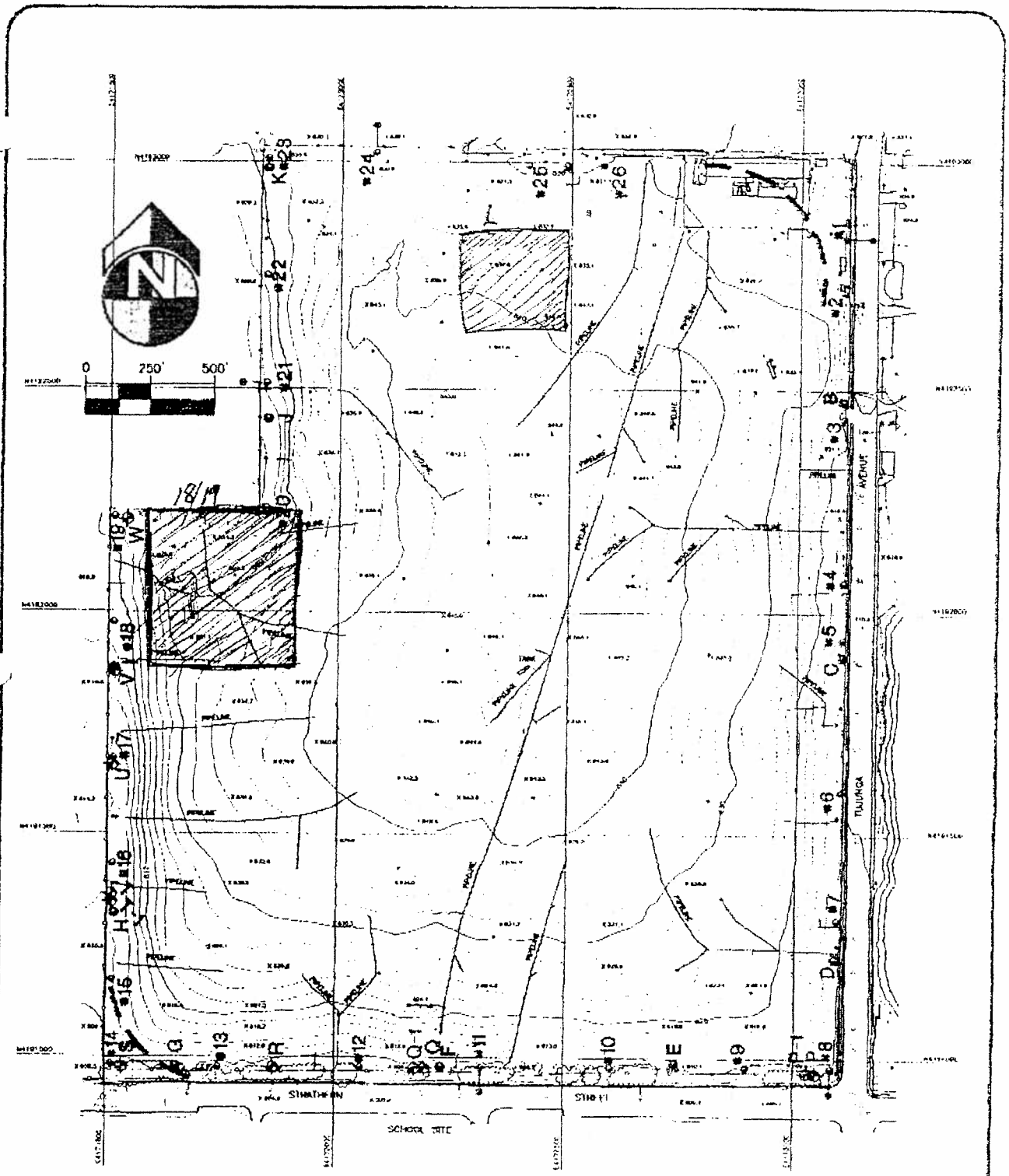

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CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND
GAS CONTROL
SPECIALISTS

PENROSE LANDFILL

INTEGRATED SURFACE SAMPLING

SAMPLING DATE 9/20/94 SAMPLER Robert McAllister SHEET ___ OF ___

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FAX: (818) 707-3017 (805) 373-8687

JOB NAME: PENROSE

JOB No. J152-6
DATE 09/20/94

INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32°F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100°F | still, breeze, wind | dry, moderate, humid

LOCATION: PENROSE

PURPOSE: Perimeter Probe Samples

CONTRACTOR(S): Robert McAllister

REMARKS: The weather was cool with a high layer of clouds for the collection samples on September 20, 1994. The contractor evaluated the wind at .9 to 2.4 mph with an electronic wind speed indicator. All samples were collected in 10 liter tedlar bags. A combustable gas meter was used in conjunction with a drager pump and drager tubes to test the H_2S and TOC levels of the samples. The

☐ REINSPECTION REQUIRED

INSPECTOR

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. 3152-6
DATE 8/20/94

REMARKS CONTINUED: first sample labelled Q 401 was collected at 10:00 AM. The result of the tests was ND in both the TOC level and H_2S level. The probe was purged 3-5 miantes prior to collection of AIR. The plant inlet sample was taken at 11:22 AM. The result of the TOC test was 42% and the H_2S level was 90 ppm.

All samples were placed into a Black bag upon completion of testing to protect from sunlight.

Robert M. [illegible]
INSPECTOR

PRINCIPAL

SHEET __ OF __

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Incorporated 1925
1010 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 9/20/94

Job # 5152-6

GAS CONCENTRATIONS

INITIALS	RM	
TIME	11:53AM	
INSTRUMENT	Dräger	
PARAMETER	H_2S	TOC

REMARKS: H_2S tests used drager tubes w/scale 1-200 ppm
OVA instrument used was Foxboro 128 *
TOC test used a Combustible Gas meter

PROBE #	H_2S	OVA
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
ISS 18/19	ND	ND *
ISS 'L'	ND	3 ppm

PROBE #				
B				
C	GREEN-21'			
	YELLOW-41'			
	ORANGE-61'			
	RED-81'			
D				
E				
F				
G				
H				
I	GREEN-17'			
	YELLOW-37'			
	ORANGE-57'			
	RED-77'			
J				
K				
L	GREEN-45'			
	YELLOW-65'			
	ORANGE-85'			
	RED-106'			
M				
N	GREEN-22'			
	YELLOW-45'			
	ORANGE-88'			
	RED-90'			
P	10'			
	40'			
	80'			
P-1	120'			

PROBE #		H_2S	TOC
Q	10'		
	40'	ND	ND
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
Plant Inlet		90 ppm	42%

For the Prepared by: SEPICH ASSOCIATES, INC. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3038 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8882

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Penrose · Methane Monitoring

DATE 09/23/94 TECH -KZ

Sample Point #	% LEL	% by Vol	Sample Point	% LEL	% by Vol
1		ND	S-80'		2
2		ND	S-120'		ND
3		ND	14		ND
4		ND	15		ND
5		ND	H		ND
6		ND	T-10'		ND
7		ND	T-40'		ND
8		ND	T-80'		ND
P-10'		2	T1-72'		ND
P-40'		ND	16		ND
P-80'		ND	U-37'		ND
P1-120'		ND	U-68'		ND
9		ND	U-10'		ND
10		ND	17		ND
11		ND	V-10'		ND
Q-10'		2	V-40'		ND
Q-40'		16	V-80'		ND
Q-80'		5	W-10'		ND
Q1-120'		ND	W-40'		ND
Q1-160'		ND	W-80'		ND
12		ND	W-120'		ND
R-10'		ND	W-153'		ND
R-40'		ND	20		ND
R-80'		ND	J		ND
R-120'		ND	21		ND
13		ND	22		ND
S-10'		ND	23		ND

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Penrose Methane Monitoring

Date 09/24/94 Tech NZ

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol	
25		ND					
K		ND					
26		ND					
B		ND					
C		ND					
D		ND					
E		ND					
F		ND					
G		ND					
N		ND					

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Public Facilities Branch / SCAQMD October 7, 1994

EXHIBIT D

Laboratory Analytical Results - Third Quarter, 1994

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Los Angeles By Products c/o John Sepich Associates, Inc. 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362		Date Sampled: Date Received: Date Analyzed:	07/28/94 07/28/94 07/29/94
Attn: Alex Feucht RE: Penrose Landfill/J152-6		Work Order No.: Method: Page 1 of 3	94-07-416 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: P 40'

Analyte	Concentration	Reportable Limit
Methane	4260	1000
TGNMO	65.1	1.0

Sample Number: P 120'

Methane	20600	1000
TGNMO	110	1.0

Sample Number: Q 10'

Methane	289000	1000
TGNMO	138	1.0

Sample Number: Q 40'

Methane	229000	1.0
TGNMO	130	1.0

Sample Number: U

Methane	9.27	1.0
TGNMO	13.8	1.0

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Los Angeles By Products		Date Sampled:	07/28/94
c/o John Sepich Associates, Inc.		Date Received:	07/28/94
3617 East Thousand Oaks Blvd., Suite 303		Date Analyzed:	07/29/94
Westlake Village, CA 91362			
		Work Order No.:	94-07-416
Attn: Alex Feucht		Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6		Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: H

Analyte	Concentration	Reportable Limit
Methane	5.94	1.0
TGNMO	15.4	1.0

Sample Number: Plant Inlet

Oxygen	12500	1000
Nitrogen	218000	1000
Methane	406000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	363000	1000
TGNMO	640	1.0

Sample Number: Method Blank #1

Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
TGNMO	ND	1.0

Sample Number: Method Blank #2

Methane	ND	1.0

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Los Angeles By Products	Date Sampled:	07/28/94
c/o John Sepich & Associates, Inc.	Date Received:	07/28/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	07/29/94
Westlake Village, CA 91362		
	Work Order No.:	94-07-416
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 3 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Sample Number: Plant Inlet (Duplicate)

Analyte	Sample Conc.	Dup. Conc.	%RPD	Control Limits (%)
Oxygen	12500	12000	4.08	0-25
Nitrogen	218000	216000	0.92	0-25
Methane	406000	408000	0.49	0-25
Carbon Monoxide	ND	ND	NA	0-25
Carbon Dioxide	363000	364000	0.28	0-25
TGNMO	640	678	5.77	0-25

Reviewed and Approved _____ on 08/09/1994
William H. Christensen
Deliverables Manager

TGNMO denotes total gaseous non-methane organic compounds.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Los Angeles By Products	Date Sampled:	07/28/94
c/o John Sepich & Associates, Inc.	Date Received:	07/28/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	07/29/94
Westlake Village, CA 91362		
	Work Order No.:	94-07-416
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 1 of 9	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: P 40'		
Acetonitrile	ND	25
Benzene	23	10
Benzyl Chloride	ND	10
Carbon Tetrachloride	ND	10
Chlorobenzene	363	10
Chloroform	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	12.5	10
1,2-Dichlorobenzene	ND	10
1,1-Dichloroethane	ND	10
1,2-Dichloroethane	ND	10
1,1-Dichloroethene	ND	10
Methylene Chloride	ND	10
Tetrachloroethene	ND	10
Toluene	219	10
1,1,1-Trichloroethane	ND	10
Trichloroethene	ND	10
Vinyl Chloride	ND	10
Total Xylenes	315	20

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Los Angeles By Products	Date Sampled:	07/28/94
c/o John Sepich & Associates, Inc.	Date Received:	07/28/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	07/29/94
Westlake Village, CA 91362		
	Work Order No.:	94-07-416
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 2 of 9	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: P 120'		
Acetonitrile	1500	50
Benzene	20	20
Benzyl Chloride	ND	20
Carbon Tetrachloride	ND	20
Chlorobenzene	235	20
Chloroform	ND	20
1,3-Dichlorobenzene	ND	20
1,4-Dichlorobenzene	ND	20
1,2-Dichlorobenzene	ND	20
1,1-Dichloroethane	ND	20
1,2-Dichloroethane	ND	20
1,1-Dichloroethene	ND	20
Methylene Chloride	ND	20
Tetrachloroethene	74	20
Toluene	279	20
1,1,1-Trichloroethane	ND	20
Trichloroethene	23	20
Vinyl Chloride	69	20
Total Xylenes	403	40

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ANALYTICAL REPORT

Los Angeles By Products	Date Sampled:	07/28/94
c/o John Sepich & Associates, Inc.	Date Received:	07/28/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	07/29/94
Westlake Village, CA 91362		
	Work Order No.:	94-07-416
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 3 of 9	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Q 10'		
Acetonitrile	ND	125
Benzene	182	50
Benzyl Chloride	ND	50
Carbon Tetrachloride	ND	50
Chlorobenzene	155	50
Chloroform	ND	50
1,3-Dichlorobenzene	ND	50
1,4-Dichlorobenzene	ND	50
1,2-Dichlorobenzene	ND	50
1,1-Dichloroethane	ND	50
1,2-Dichloroethane	ND	50
1,1-Dichloroethene	ND	50
Methylene Chloride	ND	50
Tetrachloroethene	ND	50
Toluene	242	50
1,1,1-Trichloroethane	ND	50
Trichloroethene	ND	50
Vinyl Chloride	135	50
Total Xylenes	410	100

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	Work Order No.:	94-07-416
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 4 of 9	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Q 40'		
Acetonitrile	3100	125
Benzene	55	50
Benzyl Chloride	ND	50
Carbon Tetrachloride	ND	50
Chlorobenzene	225	50
Chloroform	ND	50
1,3-Dichlorobenzene	ND	50
1,4-Dichlorobenzene	ND	50
1,2-Dichlorobenzene	ND	50
1,1-Dichloroethane	ND	50
1,2-Dichloroethane	ND	50
1,1-Dichloroethene	ND	50
Methylene Chloride	ND	50
Tetrachloroethene	ND	50
Toluene	345	50
1,1,1-Trichloroethane	ND	50
Trichloroethene	ND	50
Vinyl Chloride	65	50
Total Xylenes	542	100

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Westlake Village, CA 91362		
	Work Order No.:	94-07-416
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 5 of 9	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: U		
Acetonitrile	9.64	1
Benzene	2.78	0.4
Benzyl Chloride	ND	0.4
Carbon Tetrachloride	ND	0.4
Chlorobenzene	ND	0.4
Chloroform	ND	0.4
1,3-Dichlorobenzene	ND	0.4
1,4-Dichlorobenzene	ND	0.4
1,2-Dichlorobenzene	ND	0.4
1,1-Dichloroethane	ND	0.4
1,2-Dichloroethane	ND	0.4
1,1-Dichloroethene	ND	0.4
Methylene Chloride	29.3	0.4
Tetrachloroethene	ND	0.4
Toluene	13.1	0.4
1,1,1-Trichloroethane	2.3	0.4
Trichloroethene	ND	0.4
Vinyl Chloride	ND	0.4
Total Xylenes	4.64	0.8

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	Work Order No.:	94-07-416
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 6 of 9	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: H		
Acetonitrile	9.46	1
Benzene	3.8	0.4
Benzyl Chloride	ND	0.4
Carbon Tetrachloride	ND	0.4
Chlorobenzene	ND	0.4
Chloroform	ND	0.4
1,3-Dichlorobenzene	ND	0.4
1,4-Dichlorobenzene	ND	0.4
1,2-Dichlorobenzene	ND	0.4
1,1-Dichloroethane	ND	0.4
1,2-Dichloroethane	ND	0.4
1,1-Dichloroethene	ND	0.4
Methylene Chloride	26.2	0.4
Tetrachloroethene	ND	0.4
Toluene	11.4	0.4
1,1,1-Trichloroethane	2.1	0.4
Trichloroethene	ND	0.4
Vinyl Chloride	ND	0.4
Total Xylenes	4.3	0.8

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Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 7 of 9	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Plant Inlet		
Acetonitrile	3900	125
Benzene	768	50
Benzyl Chloride	ND	50
Carbon Tetrachloride	ND	50
Chlorobenzene	648	50
Chloroform	ND	50
1,3-Dichlorobenzene	ND	50
1,4-Dichlorobenzene	138	50
1,2-Dichlorobenzene	ND	50
1,1-Dichloroethane	70	50
1,2-Dichloroethane	ND	50
1,1-Dichloroethene	ND	50
Methylene Chloride	ND	50
Tetrachloroethene	172	50
Toluene	10200	50
1,1,1-Trichloroethane	720	50
Trichloroethene	198	50
Vinyl Chloride	ND	50
Total Xylenes	9560	100

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Westlake Village, CA 91362		
	Work Order No.:	94-07-416
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 8 of 9	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank		
Acetonitrile	ND	0.5
Benzene	ND	0.2
Benzyl Chloride	ND	0.2
Carbon Tetrachloride	ND	0.2
Chlorobenzene	ND	0.2
Chloroform	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2
1,1-Dichloroethane	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1-Dichloroethene	ND	0.2
Methylene Chloride	ND	0.2
Tetrachloroethene	ND	0.2
Toluene	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Trichloroethene	ND	0.2
Vinyl Chloride	ND	0.2
Total Xylenes	ND	0.4

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Westlake Village, CA 91362		
	Work Order No.:	94-07-416
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 9 of 9	

All concentrations are reported in ppb (v/v).

Analyte	Sample Conc.	Dup. Conc.	RPD%	Control Limits (%)
Sample Number: Plant Inlet (Duplicate)				
Acetonitrile	3900	3900	0	0-30
Benzene	768	808	5.08	0-30
Benzyl Chloride	ND	ND	NA	0-30
Carbon Tetrachloride	ND	ND	NA	0-30
Chlorobenzene	648	575	11.9	0-30
Chloroform	ND	ND	NA	0-30
1,3-Dichlorobenzene	ND	ND	NA	0-30
1,4-Dichlorobenzene	138	113	19.5	0-30
1,2-Dichlorobenzene	ND	ND	NA	0-30
1,1-Dichloroethane	70	75	6.9	0-30
1,2-Dichloroethane	ND	ND	NA	0-30
1,1-Dichloroethene	ND	ND	NA	0-30
Methylene Chloride	ND	ND	NA	0-30
Tetrachloroethene	172	162	6.99	0-30
Toluene	10200	9750	4.51	0-30
1,1,1-Trichloroethane	720	712	1.12	0-30
Trichloroethene	198	172	14	0-30
Vinyl Chloride	ND	ND	NA	0-30
Total Xylenes	9560	8580	10.8	0-30

Reviewed and Approved _____ on 08/09/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	7/28/94

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

Robert McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4	Methane		Fixed Gases		TOC	REMARKS
	7/28/94	8:00 AM	G	1	P 40'	✓	✓		✓					
	7/28/94	8:30 AM	G	1	P 120'	✓	✓		✓					for Alex, Sept 94
	7/28/94	9:05 AM	G	1	Q 10'	✓	✓		✓					
	7/28/94	9:35 AM	G	1	Q 40'	✓	✓		✓					8' 10'
	7/28/94	10:40 AM	C	1	U	✓	✓		✓					
	7/28/94	11:05 AM	C	1	H	✓	✓		✓					
	7/28/94	11:20 AM	G	1	Plant Inlet	✓	✓				✓			

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	Los Angeles By Products	7/28/94	11:31 AM
RECEIVED BY:	[illegible]	L-A BY-PRODUCTS	7-28-94	11:31 AM
RELINQUISHED BY:	[illegible]	LA BY-PRODUCTS	7-28-94	11:55 AM
RECEIVED BY:	[illegible]	CEL	7/28/94	11:55 AM
RELINQUISHED BY:	[illegible]	CEL	7/28/94	13:32
RECEIVED BY:				

002541

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ANALYTICAL REPORT

Los Angeles By Products c/o John Sepich Associates, Inc. 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	08/17/94 08/17/94 08/18/94
Attn: Alex Feucht RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 1 of 3	94-08-265 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: AB

Analyte	Concentration	Reportable Limit
Methane	2.53	1.0
TGNMO	3.53	1.0

Sample Number: 18/19

Methane	3.94	1.0
TGNMO	2.98	1.0

Sample Number: Probe Q 40'

Methane	10300	1000
TGNMO	101	1.0

Sample Number: Probe Q 10'

Methane	2.42	1.0
TGNMO	16	1.0

Sample Number: Probe Q 80'

Methane	19400	1000
TGNMO	73.7	1.0

Sample Number: Probe P 10'

Methane	17.5	1.0
TGNMO	11	1.0

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c/o John Sepich Associates, Inc.		Date Received:	08/17/94
3617 East Thousand Oaks Blvd., Suite 303		Date Analyzed:	08/18/94
Westlake Village, CA 91362			
		Work Order No.:	94-08-265
Attn:	Alex Feucht	Method:	SCAQMD 25.1
RE:	Penrose Landfill/J152-6	Page 2 of 3	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Probe P 120'

Analyte	Concentration	Reportable Limit
Methane	12200	1000
TGNMO	83.4	1.0

Sample Number: Plant Inlet

Oxygen	10300	1000
Nitrogen	216000	1000
Methane	378000	1000
Carbon Dioxide	379000	1000
TGNMO	569	1.0

Sample Number: Method Blank #1

Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Dioxide	ND	1000
TGNMO	ND	1.0

Sample Number: Method Blank #2

Methane	ND	1.0

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Los Angeles By Products c/o John Sepich Associates, Inc. 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	08/17/94 08/17/94 08/18/94
Attn: Alex Feucht RE: Penrose Landfill/J152-6	Work Order No.: Method: Page 3 of 3	94-08-265 SCAQMD 25.1

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

QA/QC

Sample Number: Plant Inlet (Duplicate)

Analyte	Sample Conc.	Dup. Conc.	%RPD	Control Limits (%)
Oxygen	10300	10200	1	0-25
Nitrogen	216000	214000	1	0-25
Methane	378000	376000	0.5	0-25
Carbon Dioxide	379000	376000	0.8	0-25
TGNMO	569	590	3.62	0-25

Reviewed and Approved _____ on 08/31/1994
William H. Christensen
Deliverables Manager

TGNMO denotes total gaseous non-methane organic compounds.

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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Westlake Village, CA 91362			
		Work Order No.:	94-08-265
Attn: Alex Feucht		Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 1 of 12	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: AB		
Vinyl Chloride	ND	0.40
Acetonitrile	61.5	1.00
1,1-Dichloroethene	ND	0.40
Methylene Chloride	734	0.40
1,1-Dichloroethane	ND	0.40
Chloroform	ND	0.40
1,2-Dichloroethane	ND	0.40
1,1,1-Trichloroethane	2.08	0.40
Benzene	2.01	0.40
Carbon Tetrachloride	ND	0.40
Trichloroethene	ND	0.40
Toluene	22.5	0.40
Tetrachloroethene	ND	0.40
Chlorobenzene	ND	0.40
Benzyl Chloride	ND	0.40
Total Xylenes	14.4	0.80
1,3-Dichlorobenzene	ND	0.40
1,4-Dichlorobenzene	ND	0.40
1,2-Dichlorobenzene	ND	0.40

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Westlake Village, CA 91362		
	Work Order No.:	94-08-265
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 2 of 12	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: 18/19		
Vinyl Chloride	ND	0.40
Acetonitrile	56.0	1.00
1,1-Dichloroethene	ND	0.40
Methylene Chloride	862	0.40
1,1-Dichloroethane	ND	0.40
Chloroform	ND	0.40
1,2-Dichloroethane	ND	0.40
1,1,1-Trichloroethane	1.75	0.40
Benzene	1.81	0.40
Carbon Tetrachloride	ND	0.40
Trichloroethene	ND	0.40
Toluene	17.3	0.40
Tetrachloroethene	ND	0.40
Chlorobenzene	ND	0.40
Benzyl Chloride	1.34	0.40
Total Xylenes	8.09	0.80
1,3-Dichlorobenzene	ND	0.40
1,4-Dichlorobenzene	ND	0.40
1,2-Dichlorobenzene	ND	0.40

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		Work Order No.:	94-08-265
Attn: Alex Feucht		Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 3 of 12	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Probe Q 40'		
Vinyl Chloride	708	100
Acetonitrile	ND	250
1,1-Dichloroethene	ND	100
Methylene Chloride	26500	100
1,1-Dichloroethane	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	ND	100
Benzene	151	100
Carbon Tetrachloride	ND	100
Trichloroethene	ND	100
Toluene	341	100
Tetrachloroethene	ND	100
Chlorobenzene	ND	100
Benzyl Chloride	ND	100
Total Xylenes	286	200
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100

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Attn: Alex Feucht		Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 4 of 12	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Probe Q 10'		
Vinyl Chloride	ND	20
Acetonitrile	ND	50
1,1-Dichloroethene	ND	20
Methylene Chloride	7410	20
1,1-Dichloroethane	ND	20
Chloroform	ND	20
1,2-Dichloroethane	ND	20
1,1,1-Trichloroethane	ND	20
Benzene	ND	20
Carbon Tetrachloride	ND	20
Trichloroethene	ND	20
Toluene	67.5	20
Tetrachloroethene	ND	20
Chlorobenzene	ND	20
Benzyl Chloride	ND	20
Total Xylenes	66.9	40
1,3-Dichlorobenzene	ND	20
1,4-Dichlorobenzene	ND	20
1,2-Dichlorobenzene	ND	20

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Westlake Village, CA 91362			
		Work Order No.:	94-08-265
Attn: Alex Feucht		Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 5 of 12	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Probe Q 80'		
Vinyl Chloride	64.6	50
Acetonitrile	612	125
1,1-Dichloroethene	ND	50
Methylene Chloride	12200	50
1,1-Dichloroethane	ND	50
Chloroform	ND	50
1,2-Dichloroethane	ND	50
1,1,1-Trichloroethane	ND	50
Benzene	50.8	50
Carbon Tetrachloride	ND	50
Trichloroethene	ND	50
Toluene	128	50
Tetrachloroethene	ND	50
Chlorobenzene	ND	50
Benzyl Chloride	54.9	50
Total Xylenes	134	100
1,3-Dichlorobenzene	ND	50
1,4-Dichlorobenzene	ND	50
1,2-Dichlorobenzene	ND	50

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3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	08/18-19/94
Westlake Village, CA 91362		
	Work Order No.:	94-08-265
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 6 of 12	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Probe P 10'		
Vinyl Chloride	ND	20
Acetonitrile	94.1	50
1,1-Dichloroethene	ND	20
Methylene Chloride	5400	20
1,1-Dichloroethane	ND	20
Chloroform	ND	20
1,2-Dichloroethane	ND	20
1,1,1-Trichloroethane	ND	20
Benzene	27.9	20
Carbon Tetrachloride	ND	20
Trichloroethene	ND	20
Toluene	77.9	20
Tetrachloroethene	ND	20
Chlorobenzene	ND	20
Benzyl Chloride	ND	20
Total Xylenes	99.0	40
1,3-Dichlorobenzene	ND	20
1,4-Dichlorobenzene	ND	20
1,2-Dichlorobenzene	ND	20

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ANALYTICAL REPORT

Los Angeles By Products		Date Sampled:	08/17/94
c/o John Sepich Associates, Inc.		Date Received:	08/17/94
3617 East Thousand Oaks Blvd., Suite 303		Date Analyzed:	08/18-19/94
Westlake Village, CA 91362			
		Work Order No.:	94-08-265
Attn: Alex Feucht		Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 7 of 12	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Probe P 120'		
Vinyl Chloride	209	100
Acetonitrile	ND	250
1,1-Dichloroethene	ND	100
Methylene Chloride	48900	100
1,1-Dichloroethane	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	ND	100
Benzene	ND	100
Carbon Tetrachloride	ND	100
Trichloroethene	ND	100
Toluene	151	100
Tetrachloroethene	ND	100
Chlorobenzene	110	100
Benzyl Chloride	ND	100
Total Xylenes	ND	200
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100

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ANALYTICAL REPORT

Los Angeles By Products		Date Sampled:	08/17/94
c/o John Sepich Associates, Inc.		Date Received:	08/17/94
3617 East Thousand Oaks Blvd., Suite 303		Date Analyzed:	08/18-19/94
Westlake Village, CA 91362			
		Work Order No.:	94-08-265
Attn: Alex Feucht		Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 8 of 12	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Plant Inlet		
Vinyl Chloride	734	100
Acetonitrile	ND	250
1,1-Dichloroethene	ND	100
Methylene Chloride	39200	100
1,1-Dichloroethane	ND	100
Chloroform	ND	100
1,2-Dichloroethane	ND	100
1,1,1-Trichloroethane	1330	100
Benzene	904	100
Carbon Tetrachloride	ND	100
Trichloroethene	213	100
Toluene	9430	100
Tetrachloroethene	163	100
Chlorobenzene	571	100
Benzyl Chloride	ND	100
Total Xylenes	8090	200
1,3-Dichlorobenzene	ND	100
1,4-Dichlorobenzene	ND	100
1,2-Dichlorobenzene	ND	100

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ANALYTICAL REPORT

Los Angeles By Products c/o John Sepich Associates, Inc. 3617 East Thousand Oaks Blvd., Suite 303 Westlake Village, CA 91362	Date Sampled: Date Received: Date Analyzed:	08/17/94 08/17/94 08/18-19/94
Attn: Alex Feucht RE: Penrose Landfill/J152-6	Work Order No.: Method: EPA TO-14 (Target Compounds) Page 9 of 12	94-08-265

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank #1		
Vinyl Chloride	ND	0.2
Acetonitrile	ND	0.5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	0.37	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	ND	0.2
Toluene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Benzyl Chloride	ND	0.2
Total Xylenes	ND	0.4
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

Los Angeles By Products	Date Sampled:	08/17/94
c/o John Sepich Associates, Inc.	Date Received:	08/17/94
3617 East Thousand Oaks Blvd., Suite 303	Date Analyzed:	08/18-19/94
Westlake Village, CA 91362		
	Work Order No.:	94-08-265
Attn: Alex Feucht	Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 10 of 12	

All concentrations are reported in ppb (v/v).

Analyte	Concentration	Reportable Limit
Sample Number: Method Blank #2		
Vinyl Chloride	ND	0.2
Acetonitrile	1.14	0.5
1,1-Dichloroethene	ND	0.2
Methylene Chloride	5.1	0.2
1,1-Dichloroethane	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Benzene	ND	0.2
Carbon Tetrachloride	ND	0.2
Trichloroethene	ND	0.2
Toluene	ND	0.2
Tetrachloroethene	ND	0.2
Chlorobenzene	ND	0.2
Benzyl Chloride	ND	0.2
Total Xylenes	ND	0.4
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2

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ANALYTICAL REPORT

Los Angeles By Products		Date Sampled:	08/17/94
c/o John Sepich Associates, Inc.		Date Received:	08/17/94
3617 East Thousand Oaks Blvd., Suite 303		Date Analyzed:	08/18-19/94
Westlake Village, CA 91362			
		Work Order No.:	94-08-265
Attn: Alex Feucht		Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 11 of 12	

All concentrations are reported in ppb (v/v).

Analyte	Sample Conc.	Dup. Conc.	RPD%	Control Limits (%)
Sample Number: 94-08-264-1 (Duplicate)				
Vinyl Chloride	ND	ND	NA	0-30
Acetonitrile	ND	ND	NA	0-30
1,1-Dichloroethene	ND	ND	NA	0-30
Methylene Chloride	1900	1650	14.1	0-30
1,1-Dichloroethane	ND	ND	NA	0-30
Chloroform	ND	ND	NA	0-30
1,2-Dichloroethane	ND	ND	NA	0-30
1,1,1-Trichloroethane	ND	ND	NA	0-30
Benzene	17200	17200	0	0-30
Carbon Tetrachloride	ND	ND	NA	0-30
Trichloroethene	ND	ND	NA	0-30
Toluene	72500	73800	1.78	0-30
Tetrachloroethene	ND	ND	NA	0-30
Chlorobenzene	ND	ND	NA	0-30
Benzyl Chloride	ND	ND	NA	0-30
Total Xylenes	56200	58100	3.32	0-30
1,3-Dichlorobenzene	ND	ND	NA	0-30
1,4-Dichlorobenzene	ND	ND	NA	0-30
1,2-Dichlorobenzene	ND	ND	NA	0-30

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Los Angeles By Products		Date Sampled:	08/17/94
c/o John Sepich Associates, Inc.		Date Received:	08/17/94
3617 East Thousand Oaks Blvd., Suite 303		Date Analyzed:	08/18-19/94
Westlake Village, CA 91362			
		Work Order No.:	94-08-265
Attn: Alex Feucht		Method: EPA TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 12 of 12	

All concentrations are reported in ppb (v/v).

Analyte	Sample Conc.	Dup. Conc.	RPD%	Control Limits (%)
Sample Number: Plant Inlet (Duplicate)				
Vinyl Chloride	734	710	3.32	0-30
Acetonitrile	ND	ND	NA	0-30
1,1-Dichloroethene	ND	ND	NA	0-30
Methylene Chloride	39200	37900	3.37	0-30
1,1-Dichloroethane	ND	ND	NA	0-30
Chloroform	ND	ND	NA	0-30
1,2-Dichloroethane	ND	ND	NA	0-30
1,1,1-Trichloroethane	1330	1230	7.81	0-30
Benzene	904	970	7.04	0-30
Carbon Tetrachloride	ND	ND	NA	0-30
Trichloroethene	213	215	0.93	0-30
Toluene	9430	9390	0.43	0-30
Tetrachloroethene	163	163	0.00	0-30
Chlorobenzene	571	577	1.05	0-30
Benzyl Chloride	ND	ND	NA	0-30
Total Xylenes	8090	8110	0.25	0-30
1,3-Dichlorobenzene	ND	ND	NA	0-30
1,4-Dichlorobenzene	ND	ND	NA	0-30
1,2-Dichlorobenzene	ND	ND	NA	0-30

Reviewed and Approved William H. Christensen on 08/31/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact and with chain-of-custody attached.

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JOB NAME	FILE (JOB#)	DATE
PENROSE LANDFILL — INTEGRATED SURFACE SAMPLES	J152-6	8/17/94

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY:

Robert McAllister & Ted Phillips

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4	[redacted]	Fixed Gases			TOC	REMARKS
	8/17/94	9:25 Am	C		AB	✓	✓	✓	[redacted]				ND	
	8/17/94	9:55 Am	C		18/19	✓	✓	✓	[redacted]				ND	
	8/17/94	10:35 Am	G		Probe Q 40'	✓	✓						10%	
	8/17/94	10:00 Am	G		Probe Q 10'	✓	✓						ND	
	8/17/94	10:55 Am	G		Probe Q 80'	✓	✓						.2%	
	8/17/94	11:20 Am	G		Probe P 10'	✓	✓						ND	
	8/17/94	11:53 Am	G		Probe P 120'	✓	✓						2%	
	8/17/94	9:40 Am	G		Plant Inlet	✓	✓			✓			44%	

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert McAllister	LOS ANGELES BY PRODUCTS	8/17/94	12:02 pm.
RECEIVED BY:	Scott Van Sorden	L.A. By-Products	8/17/94	12:03 pm.
RELINQUISHED BY:	Scott Van Sorden	L.A By Products	8/17/94	12:31 pm
RECEIVED BY:	[illegible]	CEL	8/17/94	12:31 pm.
RELINQUISHED BY:	[illegible]	CEL	8/17/94	14:42
RECEIVED BY:	[illegible]	CEL	8/17/94	14:42

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates/LA By Products		Date Sampled:	09/20/94
3617 East Thousand Oaks Blvd., Suite 303		Date Received:	09/20/94
Westlake Village, CA 91362		Date Analyzed:	09/21/94
		Work Order No.:	94-09-338
Attn: Alex Feucht		Method: TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 1 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: ISS.L

Analyte	Concentration	Reportable Limit
Acetonitrile	5.6	5.6
Benzene	1.9TR	2.2
Benzyl Chloride	ND	2.2
Carbon Tetrachloride	ND	2.2
Chlorobenzene	ND	2.2
Chloroform	ND	2.2
1,3-Dichlorobenzene	ND	2.2
1,4-Dichlorobenzene	ND	2.2
1,2-Dichlorobenzene	ND	2.2
1,1-Dichloroethane	ND	2.2
1,2-Dichloroethane	ND	2.2
1,1-Dichloroethene	ND	2.2
Methylene Chloride	113	2.2
Tetrachloroethene	ND	2.2
Toluene	26.0	2.2
1,1,1-Trichloroethane	2.2	2.2
Trichloroethene	ND	2.2
Vinyl Chloride	ND	2.2
Total Xylenes	ND	4.4

* TR = Trace Level - below indicated reportable limit.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates/LA By Products		Date Sampled:	09/20/94
3617 East Thousand Oaks Blvd., Suite 303		Date Received:	09/20/94
Westlake Village, CA 91362		Date Analyzed:	09/21/94
		Work Order No.:	94-09-338
Attn: Alex Feucht		Method: TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 3 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: TSI Plant Inlet

Analyte	Concentration	Reportable Limit
Acetonitrile	8060	1000
Benzene	1120	400
Benzyl Chloride	ND	400
Carbon Tetrachloride	ND	400
Chlorobenzene	1560	400
Chloroform	ND	400
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	3500	400
1,2-Dichlorobenzene	1220	400
1,1-Dichloroethane	ND	400
1,2-Dichloroethane	ND	400
1,1-Dichloroethene	ND	400
Methylene Chloride	10400	400
Tetrachloroethene	280TR	400
Toluene	17600	400
1,1,1-Trichloroethane	ND	400
Trichloroethene	ND	400
Vinyl Chloride	640	400
Total Xylenes	30700	800

* TR = Trace Level - below indicated reportable limit.

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ANALYTICAL REPORT

Sepich & Associates/LA By Products		Date Sampled:	09/20/94
3617 East Thousand Oaks Blvd., Suite 303		Date Received:	09/20/94
Westlake Village, CA 91362		Date Analyzed:	09/21/94
		Work Order No.:	94-09-338
Attn: Alex Feucht		Method: TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 4 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: Q 40'

Analyte	Concentration	Reportable Limit
Acetonitrile	76	50
Benzene	ND	20
Benzyl Chloride	ND	20
Carbon Tetrachloride	ND	20
Chlorobenzene	ND	20
Chloroform	ND	20
1,3-Dichlorobenzene	ND	20
1,4-Dichlorobenzene	29	20
1,2-Dichlorobenzene	ND	20
1,1-Dichloroethane	ND	20
1,2-Dichloroethane	ND	20
1,1-Dichloroethene	ND	20
Methylene Chloride	300	20
Tetrachloroethene	ND	20
Toluene	54	20
1,1,1-Trichloroethane	ND	20
Trichloroethene	ND	20
Vinyl Chloride	ND	20
Total Xylenes	40	40

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ANALYTICAL REPORT

Sepich & Associates/LA By Products	Date Sampled:	09/20/94
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	09/20/94
Westlake Village, CA 91362	Date Analyzed:	09/21/94
	Work Order No.:	94-09-338
Attn: Alex Feucht	Method: TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6	Page 5 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Acetonitrile	ND	0.5
Benzene	ND	0.2
Benzyl Chloride	ND	0.2
Carbon Tetrachloride	ND	0.2
Chlorobenzene	ND	0.2
Chloroform	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.2
1,1-Dichloroethane	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1-Dichloroethene	ND	0.2
Methylene Chloride	0.56	0.2
Tetrachloroethene	ND	0.2
Toluene	ND	0.2
1,1,1-Trichloroethane	ND	0.2
Trichloroethene	ND	0.2
Vinyl Chloride	ND	0.2
Total Xylenes	ND	0.4

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates/LA By Products		Date Sampled:	09/20/94
3617 East Thousand Oaks Blvd., Suite 303		Date Received:	09/20/94
Westlake Village, CA 91362		Date Analyzed:	09/21/94
		Work Order No.:	94-09-338
Attn: Alex Feucht		Method: TO-14 (Target Compounds)	
RE: Penrose Landfill/J152-6		Page 6 of 6	

All concentrations are reported in ppb (v/v).

Sample Number: 94-09-351-3 (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limit%
Acetonitrile	1400	1460	4	0 - 30
Benzene	ND	ND	NA	0 - 30
Benzyl Chloride	ND	ND	NA	0 - 30
Carbon Tetrachloride	ND	ND	NA	0 - 30
Chlorobenzene	ND	ND	NA	0 - 30
Chloroform	ND	ND	NA	0 - 30
1,3-Dichlorobenzene	ND	ND	NA	0 - 30
1,4-Dichlorobenzene	ND	ND	NA	0 - 30
1,2-Dichlorobenzene	ND	ND	NA	0 - 30
1,1-Dichloroethane	440	445	0	0 - 30
1,2-Dichloroethane	ND	ND	NA	0 - 30
1,1-Dichloroethene	ND	ND	NA	0 - 30
Methylene Chloride	190	180	5	0 - 30
Tetrachloroethene	570	635	11	0 - 30
Toluene	54	53	1	0 - 30
1,1,1-Trichloroethane	ND	ND	NA	0 - 30
Trichloroethene	155	120	25	0 - 30
Vinyl Chloride	ND	ND	NA	0 - 30
Total Xylenes	50	60	20	0 - 30

Reviewed and Approved William H. Christensen on 09/27/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates/LA By Products	Date Sampled:	09/20/94
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	09/20/94
Westlake Village, CA 91362	Date Analyzed:	09/20/94
	Work Order No.:	94-09-338
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 1 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: ISS.L

Analyte	Concentration	Reportable Limit
TGNMO	17.9	1.0
Methane	4.4	1.0

Sample Number: ISS 18/19

TGNMO	18.3	1.0
Methane	3.2	1.0

Sample Number: TSI Plant Inlet

Oxygen	7430	1000
Nitrogen	209000	1000
Methane	383000	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	346000	1000
TGNMO	939	1.0

Sample Number: Q 40'

TGNMO	89.5	1.0
Methane	12.1	1.0

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Sepich & Associates/LA By Products	Date Sampled:	09/20/94
3617 East Thousand Oaks Blvd., Suite 303	Date Received:	09/20/94
Westlake Village, CA 91362	Date Analyzed:	09/20/94
	Work Order No.:	94-09-338
Attn: Alex Feucht	Method:	SCAQMD 25.1
RE: Penrose Landfill/J152-6	Page 2 of 2	

TGNMO concentration values are reported in ppm (v/v) as methane. All other concentration values are reported in ppm (v/v).

Sample Number: Method Blank

Analyte	Concentration	Reportable Limit
Oxygen	ND	1000
Nitrogen	ND	1000
Methane	ND	1000
Carbon Monoxide	ND	1000
Carbon Dioxide	ND	1000
TGNMO	ND	1.0

Sample Number: TSI Plant Inlet (Duplicate)

Analyte	Sample Conc.	Duplicate Conc.	%RPD	Control Limit%
Oxygen	7430	7640	3	0 - 25
Nitrogen	209000	209000	0	0 - 25
Methane	383000	385000	0	0 - 25
Carbon Monoxide	ND	ND	NA	0 - 25
Carbon Dioxide	346000	346000	0	0 - 25
TGNMO	939	997	6	0 - 25

Reviewed and Approved William H. Christensen on 09/27/1994
William H. Christensen
Deliverables Manager

ND denotes not detected at indicated reportable limit.

Each sample was received by CEL intact, and with chain-of-custody attached.

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9/338

JOB NAME		FILE (JOB#)	DATE
PENROSE LANDFILL	INTEGRATED SURFACE SAMPLES	J152-6	9/20/94

CHAIN OF CUSTODY RECORD

SHEET 1 OF 1

SAMPLE TAKEN BY: ROBERT McAllister

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE DESCRIPTION	ANALYSES REQUIRED: CORE GROUP	NMHC	CH_4	[illegible]		Fixed Gas		TOC	REMARKS
J-152	9/20/94	10:49 Am	C	1	ISS L	✓	✓		✓					
J-152	9/20/94	9:01 Am	C	1	ISS 18/19	✓	✓		✓					
J-152	9/20/94	11:22 Am	G	1	TSI Plant Inlet	✓	✓				✓			
J-152	9/20/94	10:00 Am	G	1	Q 40'	✓	✓							

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	[signature]	LOS ANGELES BY PRODUCTS	9/20/94	11:32 AM
RECEIVED BY:	[signature]	CONSCIENCE	9/20/94	11:32 AM
RELINQUISHED BY:	[signature]	CONSCIENCE	9/20/94	12:47
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:	[signature]	CEL	9/20/94	1247

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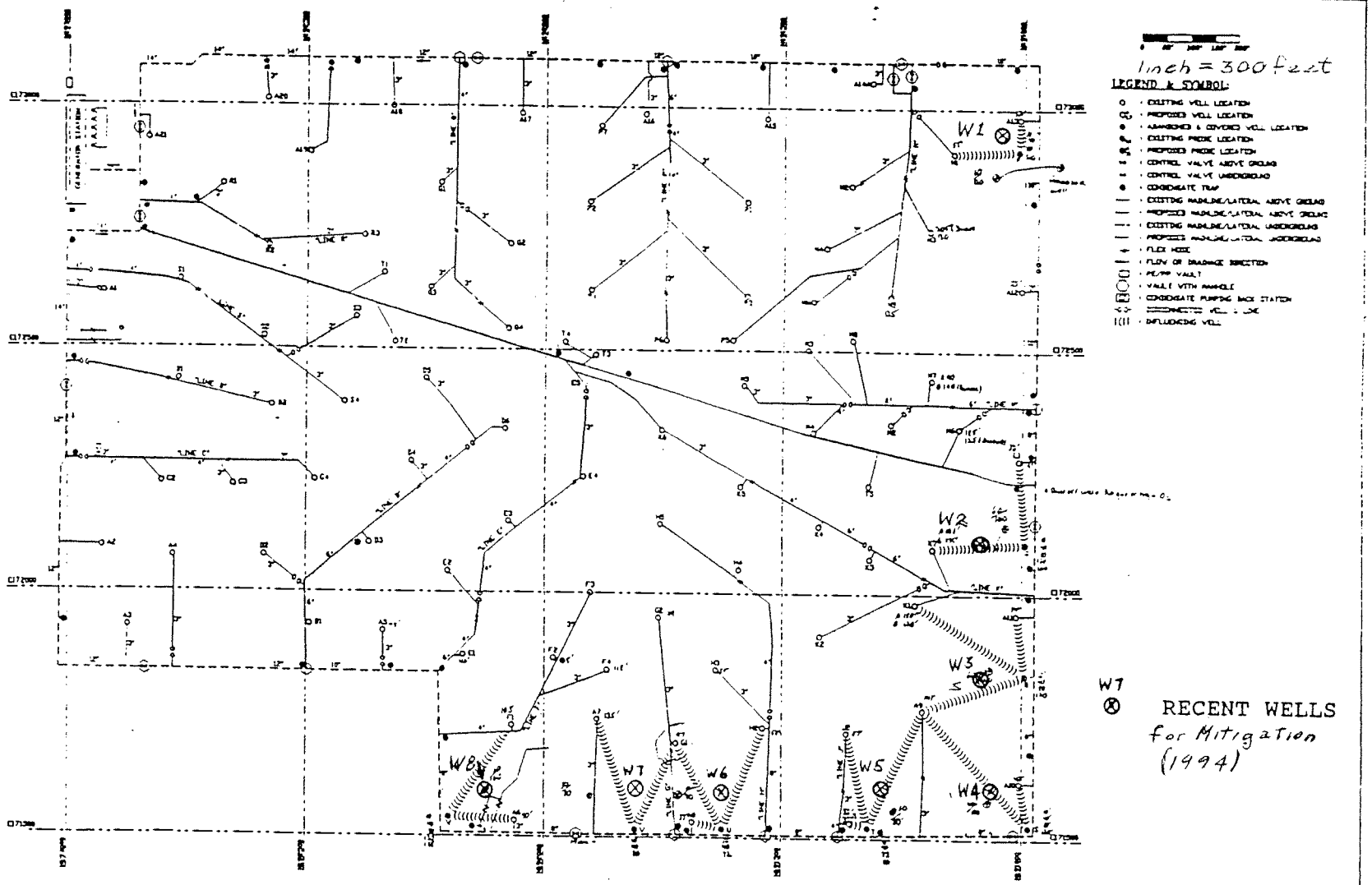

PENROSE GAS COLLECTION SYSTEM

WELL PLAN/PRODUCTION MAINLINE

PACIFIC ENERGY
8055 E. WASHINGTON BLVD, COMMERCE, CA. 90040

PENROSE SANITARY LANDFILL
TOPOGRAPHY/SITE PLAN &
WELL LOCATION/PRODUCTION MAINLINE

D-7280-TP-001

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Sepich Associates Inc.

METHANE SPECIALISTS

3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362

TEL (818) 707-3036
(805) 373-9321

FAX (818) 707-3012
(805) 373-8987

January 14, 1994

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Fourth Quarter, 1993
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the first quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October - December, 1993. Monitoring for this report was performed on October 22 and December 14, 17, and 20, 1993. Follow-up perimeter probe samples were collected on November 10 and December 21, 1993. Instantaneous surface monitoring was conducted on December 14, 1993. A plant inlet sample was collected on December 20, 1993. Integrated surface samples were collected on December 21, 1993.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

- Project Specific: On September 10, 1993, at the requrest of L.A. ByProducts, Mr. John Sepich of Sepich Associates met with Mr. Ted Kowalczyk of the SCAQMD. Guidance was sought regarding the implementation of the program for the specific conditions at the Penrose site. Mr. Kowalczyk clarified requirements regarding the number, depth and location of new probes; and the integrated surface and ambient air sqampling requirements.

- New Probes: Rule 1150.1 requires installation of perimeter probes at specified intervals based on adjacent occupancy. Based on Rule 1150.1, eight probe clusters (each cluster consists of three or more probes installed in one or two borings in close proximity to each other) were installed in September and October of 1993 to supplement the previous array of perimeter probes. Hereafter probe clusters will be referred to as probes, with probe depths designated where necessary to distinguish individual probes. The recently installed probes consist of one-half inch PVC pipe with a one-foot screened interval at the bottom of the probe and a valve at the probe-head for sample extraction. Exhibit A, Probe Locatior

Map, shows the locations of the new perimeter probes (Probes P through W). Exhibit B contains the boring logs and probe installation details.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements pending results from initial monitoring. The Rule also requires plant inlet gas analyses on a quarterly basis and simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Initial perimeter probe monitoring requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the initial monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit C, Table I for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit D includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation

of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection a of 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of informational are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, October through December 1993, field monitoring was conducted on October 22 and December 14 through 20. Perimeter probe samples were collected for laboratory analysis on November 10, and December 21, 1993. The October monitoring event was a post probe installation monitoring of the perimeter probes only. In November several attempts to collect integrated surface samples were aborted due to winds in excess of 5 miles per hour (mph).

The December monitoring began December 14, 1993 with the instantaneous surface monitoring conducted between 7:40 and 10:40 AM, with a Foxboro Century 128 FID. Perimeter probe monitoring was started on December 17, and finished on December 20. Integrated surface samples were collected on December 21.

B.1 Perimeter Probe Monitoring and Sampling

Before commencing monitoring on October 22, and December 17 and 20, the Bacharach HPK was calibrated using 2.5% by volume methane calibrant. Before monitoring or sampling from a gas probe, the probe was evacuated until the TOC concentration remained constant for at least 30 seconds. Tedlar bag samples were collected using the direct pump sampling procedure. The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Performance Analytical Inc. (PAI), a certified analytical laboratory in Canoga Park, California, within 24 hours of sampling.

Perimeter probe monitoring on October 22, 1993 with a Bacharach HPK combustible gas detector, resulted in sampling at Probes C, P, Q, and U on November 10, 1993.

Perimeter probe monitoring on December 17 and 20, with a Bacharach HPK, resulted in sampling at Probes I, P, and Q on December 21. Monitoring results were discussed with Pacific Energy (operator of the gas extraction system at the landfill) personnel who said they would increase production from areas with high perimeter probe monitoring readings. Evacuation of Probe I (screen depth 37 feet), preparatory to sampling on December 21, 1993, reduced combustible gas readings to zero as measured with the HPK, therefore, no sample was collected from Probe I for laboratory analysis. A map of probe locations can be found in Exhibit A and perimeter probe monitoring data sheets are included in Exhibit E.

B.2 Integrated Surface Sampling

Integrated surface sampling was conducted on December 21, 1993 by focusing sampling efforts in zones where previously conducted instantaneous surface monitoring had found the highest TOC concentrations. During instantaneous surface monitoring, five areas in October and only one area in December had TOC greater than 500 ppmv, area 5 in the southwest corner of the property, as displayed on the grid plan A map (Exhibit E). The integrated samples were taken at the five zones of higher TOC, marked on the map. The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring was conducted on October 29 and December 14, 1993. In October both grid plan A and grid plan B were traversed.

In December traversing was conducted between 7:40 and 10:40 AM, with a recently calibrated Foxboro Century 128 FID. Grid plan A (Exhibit D) was traversed during the monitoring. By 9:40 AM a slight breeze had developed which may have momentarily exceeded 5 mph during the last hour of monitoring.

B.4 Plant Inlet Sampling

A 10-liter bag sample was collected from the Pacific Energy electrical generation plant input pipeline on December 20, 1993. Inlet gas was monitored with recently calibrated Bacharach HPK and Industrial Scientific Corporation, HS267, hydrogen sulfide (H_2S) detectors.

B.5 Simultaneous Inlet/Exhaust Sampling

We did not collect simultaneous inlet/exhaust samples. The gas collection system and the electrical power (disposal system) plant operated by Pacific Energy is operating under an SCAQMD permit to operate, an SCAQMD permit for the collection system, and a power plant permit. These permits are managed by the SCAQMD Landfill Group. Information regarding inlet and exhaust analytical data was not made availble by the plant operator and owner, Pacific Energy to L.A.ByProducts. SCAQMD files regarding those permits are hereby referred to for all information regarding plant inlet/exhaust sampling data.

B.6 Reporting Requirements

This is the first in a series of reports for Penrose Landfill. We hope that by working with SCAQMD, Los Angeles By-Products, SCAQMD, and Pacific Energy we can fine-tune our procedures and develop excellent reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms. Pertinent field data is included with this report. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Performance Analytical Inc. Field monitoring data are included in Exhibit E. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit F.

C.1 Perimeter Probe Monitoring and Laboratory Results

October 22 monitoring results were highest from Probes C (23% @ 61'), P (50% @ 40'), Q (45% @ 40'), and U (26% @ 68'). The November 10 Tedlar bag samples were analyzed for methane by SCAQMD Method 25.2 (C-61) and by a gas chromatograph equipped with a thermal conductivity detector (GC/TCD) (P-40, Q-40, and U-68). Analytical results were 230 ppmv, 44% by volume, 38% by volume, and 49% by volume from Probes C, P, Q, and U, respectively.

The December HPK readings from Probes P and Q (10 and 40-foot depths) ranged from 8% to 30% by volume. Tedlar bag samples were analyzed for methane by SCAQMD Method 25.2 and by GC/TCD, for total NMHC by SCAQMD Method 25.2, and for Volatile Organic Compounds (VOC) by EPA Method TO-40. Analytical results were 44%, 43%, 42%, and 33% by volume methane in samples P-10, P-40, Q-10, and Q-40, respectively. NMHC and VOC analytical results are included in Exhibit E.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane by SCAQMD Method 25.2 and by GC/TCD, for total NMHC by SCAQMD Method 25.2, and for VOC by EPA Method TO-40. Analytical results were 2.6, 2.3, 2.3, 2.1, and 3.4 ppmv methane in samples from zones 1, 2, 3, 4, and 5, respectively. NMHC and VOC analytical results are included in Exhibit F.

C.3 Instantaneous Surface Monitoring Results

In October the instantaneous surface monitoring found five areas with TOC concentrations greater than 500 ppmv. Three of the areas were at settlement cracks, one was at a large pothole, and one was near a well in the southeast corner of the landfill. Mitigation was accomplished by grading, filling, and compacting. Integrated surface sampling in December indicated that the mitigation had been successful.

In December TOC concentration greater than 500 ppmv was detected in one area, area 5 in the southwest corner of the landfill, as displayed on the grid plan A map (Exhibit D). Areas of highest TOC concentrations were later used as a basis for focusing integrated surface sampling efforts.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

The combustible gas detector recorded 15% methane and 15.5% oxygen. The HS267 detected 65 ppm H_2S. Laboratory results indicated 43% methane, 0.76% NMHC, less than 0.2% hydrogen, 0.3% oxygen, 18% nitrogen, less than 0.2% carbon monoxide, and 39% carbon dioxide.

C.5 Simultaneous Inlet/Exhaust Sampling

The gas collection system and the electrical power (disposal system) plant operated by Pacific Energy is operating under an SCAQMD permit to operate, an SCAQMD permit for the collection system, and a power plant permit. These permits are managed by the SCAQMD Landfill Group. Information regarding inlet and exhaust analytical data is routinely submitted to SCAQMD by Pacific Energy. We hereby refer to SCAQMD files regarding that information.

C.6 Report Requirements

This report constitutes the initial Rule 1150.1 Compliance Plan report for Penrose Landfill.

As the initial quarterly report the required annual requirements 8.0 are included below.

1. Pacific Energy's power plant is the only facility operating on the property.

2. No wastes materials have been deposited in the landfill during this reporting period.

3. The total material deposited in Penrose Landfill to date is estimated at 14 million tons.

4. A contour map with the landfill boundary is included in Exhibit A. Trash extends throughout the site to within 10 feet of the property line, except along the south property line where trash is approximately 50 feet north of the property line and at the northeast and southwest corners of the site as shown.

5. The collection system and the electrical power (disposal system) plant operated by Pacific Energy is operating under an SCAQMD permit to operate, an SCAQMD permit for the collection system, and a power plant permit. These permits are managed by the SCAQMD Landfill Group. Historical information regarding flow rates and information necessary for estimating future rates should be available from SCAQMD files regarding those permits.

6. As-built and modification diagrams should be available from SCAQMD file regarding the permits referenced above.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the current monitoring and laboratory results, mitigation measures are being implement as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up sampling and analytical analyses will be accomplished as required by Rule 1150.1.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
JUN. 30 1996
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.601/atf

(1 copy submitted)

Distribution: Los Angeles By-Products Company

- Mr. Mike McAllister

Enclosures:

- EXHIBIT A: Penrose Landfill - Probe Location Map
- EXHIBIT B: Penrose Landfill - New Probe Data
- EXHIBIT C: Core Group Toxic Air Contaminants
- EXHIBIT D: Traverse Grids and Schematic Diagram of Integrated Surface Sampler
- EXHIBIT E: Field Data - Fourth Quarter, 1993
- EXHIBIT F: Laboratory Analytical Results - Fourth Quarter, 1993

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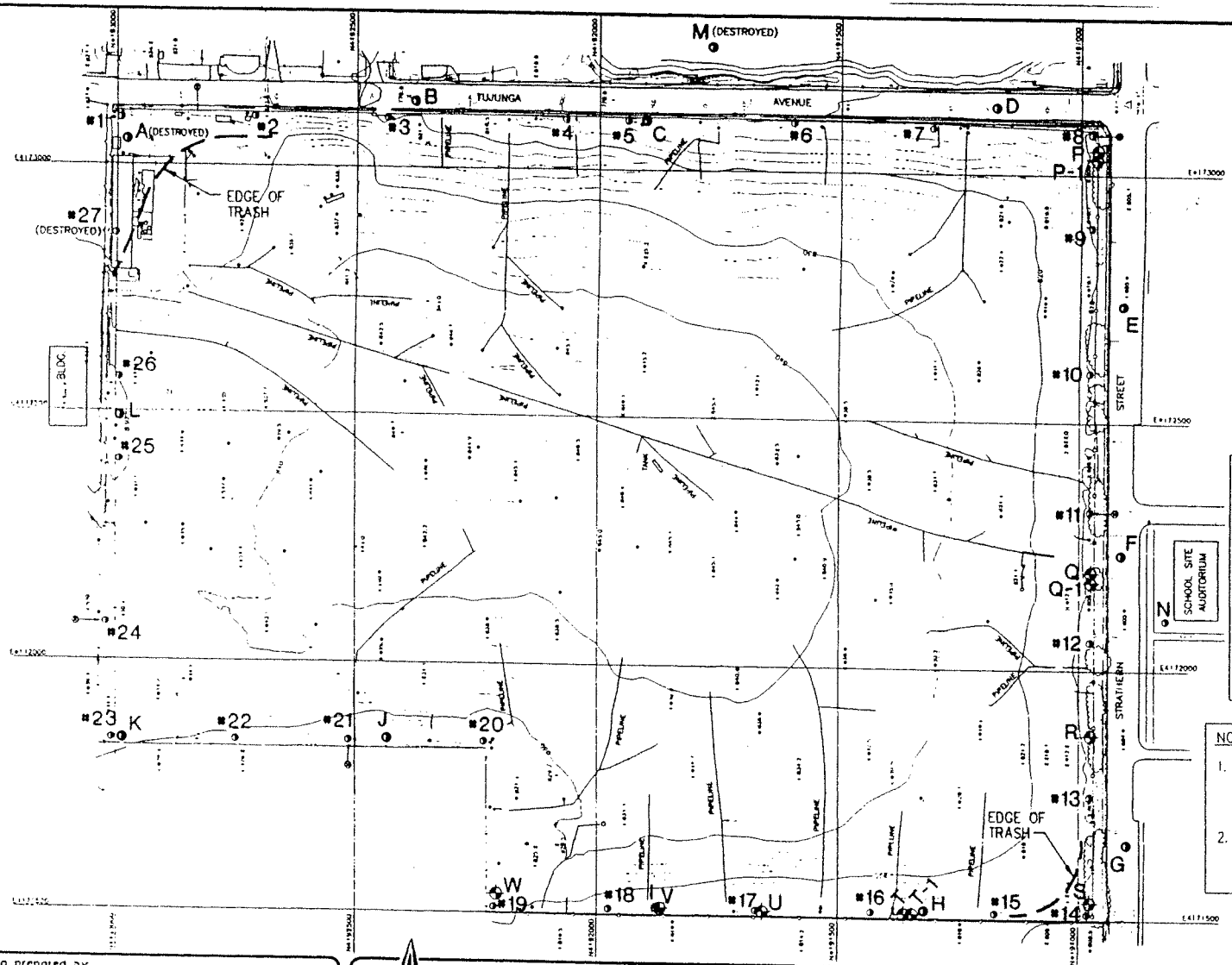
EXHIBIT A

Penrose Landfill - Probe Location Map



0 100' 200' 400'

SCALE:

AERIAL PHOTOGRAPHY DATED 1-24-92

LEGEND

- #10 EXIST. SHALLOW PROBE
- F EXIST. DEEP PROBE
- PROBE SAMPLING LOCATION
- WELL
- 10' CONTOUR
- 2' CONTOUR
- R NEW PROBES INSTALLED SEPT/OCT 1993

NOTES:

1. PROBES B THRU G ARE OUTSIDE WALL IN PARKWAY WITH IRRIGATION VAULTS, GREEN PLASTIC ROUND OR SQUARE.
2. PROBE N IS 8'± SOUTH OF SIDEWALK IN SCHOOL YARD, 8'± EAST OF MAIN ENTRY SIDEWALK.

Drawing prepared by:

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CIVIL ENGINEERS SANITARY ENVIRONMENTAL WASTE AND METHANE SPECIALISTS

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE PIT

PROBE LOCATIONS

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Public Facilities Branch / SCAQMD January 14, 1994

EXHIBIT B

Penrose Landfill - New Probe Data

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JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 9/22/93

by Alex T. Feculit
Calif. RG #4433

BORING LOG

NAME BORING #P

Layne Rig #455 (CME 95) w/ 8" Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry, brown				0
Boulder/ Cobbles				5'
SAND with Silt, some Gravel, moist, green gray			PLUG #3 SAND	10'
				15'
SAND, very fine to very coarse, moist, green gray to				20'
blue gray				25'
Common Gravel and Cobble layers with some Boulders				30'
				35'
			PLUG #3 SAND	40'
brown 43' - 49'				45'
SAND, as above, blue gray				50'
				55'
				60'
				65'
				70'
Cobbles, Gravel, and Boulders with some sand			PLUG #3 SAND	75'
				80'
REFUSAL at 82'			82'	
			Depth to bottoms of gas probes 10.0' 40.0' 80.0'	85'
				90'
				95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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JOB NAME: PENROSE LANDFILL

JOB No. J152-6

DATE 10/2/93

by Alex T. Feucht
Calif. RG #4433

BORING LOG

NAME BORING # P-1 (9' West of Boring P)

Layne Rig #404 (AP1000) w/ 9" dia. Air Hammer

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry, light brown		PLUG 3.0'		0
SAND with Silt, some Gravel, moist, green gray				5'
				10'
				15'
SAND, very fine to very coarse, moist, green gray to blue gray.				20'
				25'
common Gravel and Cobble layers with some Boulders				30'
				35'
				40'
brown 43'-49'				45'
				50'
SAND, as above, blue gray				55'
				60'
				65'
				70'
SAND, Gravel and Cobbles				75'
Cobbles, Gravel, and Boulders				80'
		84.0' PLUG 86.7'		85'
				90'
				95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
Cobbles, Gravel, and Boulders with some thin brown Sand layers		116.5' PLUG 118.3' #3 SAND 120.2'		105'
				110'
				115'
				120'
			122.0' TOTAL DEPTH	125'
			Depth to bottom of gas probe 120.0'	130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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JOB NAME: PENROSE LANDFILL

JOB No. J152-6

DATE 9/22/93

by Alex T. Feudbt
Calif. RG #4433

BORING LOG

NAME BORING #Q

Layne Rig #455 (CME 95) w/ 8" dia. Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT with Gravel, dry, brown				0
SAND with Gravel, very fine to very coarse, moist, green gray			6.5' PLUG; 7.8' #3 SAND	5', 10', 15', 20', 25', 30', 35'
occasional Gravel and Cobble layers				
SAND, as above			PLUG 38.0' #3 SAND	40', 45', 50', 55', 60', 65', 70'
Cobbles, Boulders, and Gravel with Sand			PLUG 73.4' #3 SAND	75', 80', 85', 90', 95', 100'
REFUSAL at 75'			75.0' TOTAL DEPTH	
			Depths to bottoms of gas probes 10.0' 40.0' 75.0'	

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105', 110', 115', 120', 125', 130', 135', 140', 145', 150', 155', 160', 165', 170', 175', 180', 185', 190', 195', 200'

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JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 10/04/93

by Alex T. Feucht
Calif. RG #4433

BORING LOG

NAME BORING # Q-1
(10' West of Boring Q)

Layne Rig # 404 (AP 1000) w/ 9" dia. AIR Hammer

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry brown			PLUG 5.0'	0
SAND, fine to coarse, some Gravel, moist, blue gray				5'
occasional Gravel and Cobble layers				10'
				15'
				20'
				25'
SILTY CLAY, blue gray to olive brown				30'
SAND with Gravel, very fine to very coarse, moist, light blue gray to green gray				35'
				40'
				45'
occasional Gravel, Cobble, and Boulder layers				50'
				55'
				60'
				65'
SAND below 70' is brown				70'
				75'
Cobbles, Boulders, and Gravel with some thin Sand layers			83.0' PLUG 85.0'	80'
				85'
				90'
				95'
				100'
Cobbles, Boulders, and Gravel with occasional thin Sand layers			115.8' PLUG 117.0' #3 SAND 119.0'	105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
SAND, as above				150'
Cobbles			154.0' PLUG 156.0' #3 SAND	155'
			157.6' TOTAL DEPTH	160'
				165'
			DEPTH to bottom of gas probes	170'
				175'
			119.0' 157.5'	180'
				185'
				190'
				195'
				200'

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JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 10/5/6/93

by Alex T. Feurbst
Calif. RG # 4433

BORING LOG

NAME BORING # R

Layne Rig # 404 (AP1000) w/9" dia. Air Hammer

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry			PLUG 2.5'	0
SAND, silty, moist, brown			6.0' PLUG 8.3' #3 SAND 9.8'	5'
SAND, very fine to very coarse, some Gravel, moist gray (with slight blue tint)				10' 15'
cobble layer				20'
SAND, as above			36.0' PLUG 38.3' #3 SAND 40.0'	25' 30' 35' 40'
olive gray zone				45'
SAND, as above, gray with slight blue tint				50' 55' 60'
SAND, as above, gray brown				65' 70'
Cobbles, Gravel and Boulders with thin SAND layers			77.0' PLUG 78.0' #3 SAND 79.9'	75' 80'
Cobbles, Boulders, Gravel			85.0' PLUG 87.0'	85' 90' 95' 100'
Cobbles, Boulders, and Gravel with thin Sand layers			114.2' PLUG 115.7' #3 SAND 118.4'	105' 110' 115' 120'
			120' TOTAL DEPTH	125'
			Depths to bottoms of gas probes 9.8' 39.8' 79.7' 118.2'	130' 135' 140' 145'
				150' 155' 160' 165' 170' 175' 180' 185' 190' 195' 200'

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JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 10/5/93

BORING LOG

by Alan T. Fanchi
Calif. RG #4433

NAME BORING # S

Layne Rig # 404 (AP1000) w/ 9" dia. Air Hammer

DESCRIPTION	NOTES	DEPTH
SAND, very fine to medium, dry, brown, some silt	PLUG 2.5'	0
	6.0' PLUG 8.3'	5'
SAND, very fine to coarse, moist, brown, some Gravel and Cobbles	#3 SAND 10.2'	10'
		15'
SAND, as above, yellow brown		20'
		25'
		30'
occasional Gravel and Cobble layers	36.7' PLUG 38.0' #3 SAND 40.0'	35'
		40'
		45'
		50'
		55'
		60'
SAND, very fine to very coarse, gray brown, with Gravel, Cobble and Boulder layers		65'
		70'
	76.7' PLUG 78.0' #3 SAND 80.0'	75'
Cobbles, Boulders, and Gravel		80'
	85.5' PLUG 87.0'	85'
		90'
		95'
		100'

DESCRIPTION	NOTES	DEPTH
Cobbles, Boulders, and Gravel with thin Sand layers		105'
		110'
	114.8' PLUG 116.7'	115'
	#3 SAND 118.6'	120'
	120.0' TOTAL DEPTH	125'
	Depths to bottoms of gas probes	130'
	10.0'	135'
	39.8'	140'
	79.8'	
	118.6'	145'
		150'
		155'
		160'
		165'
		170'
		175'
		180'
		185'
		190'
		195'
		200'

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SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 FAX: (818) 707-3012

JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 10/12/93

by Alex T. Fenbit
Calif. RG #4433

BORING LOG

NAME BORING #T

Layne Rig #D-34 (B-61 XD) 8" dia. Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry, brown			PLUG 3.0'	0
			7.3'	5'
SILTY SAND, with Gravel, dry, brown			PLUG 8.5'	
			#3 SAND 10.2'	10'
GRAVELLY SAND, very fine to very coarse, with Silt, dry, brown				15'
				20'
SAND, very fine to very coarse, with Gravel, some Cobbles, moist, brown			31.0' PLUG	25'
			34.5' SLOUGH	30'
			38.0' #3 SAND	35'
			40.2'	40'
SAND, as above				45'
				50'
				55'
				60'
SAND, as above				65'
Cobbles, Gravel and Boulders, with SAND, moist, brown			70.5' PLUG	70'
			73.0' #3 SAND	75'
REFUSAL at 76.5'			76.5'	
			Depths to bottoms of gas probes 10.0' 39.9' 76.2' deep probe rose 3' to 73.0'	80'
				85'
				90'
				95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 FAX: (818) 707-3012

JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 10/12/93

by Alex T. Feucht
Calif. RG #4433

BORING LOG

NAME BORING # T-1 (3.5' South of Boring #T)

Layne Rig #D-34 (B-61XD) w/ 8" dia. Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry, brown			PLUG 2.0'	0
SILTY SAND, with Gravel, dry, brown				5'
GRAVELLY SAND, very fine to very coarse, with Silt, dry, brown				10'
SAND, very fine to very coarse, with Gravel, some Cobbles, moist, brown				15'
				20'
				25'
				30'
				35'
				40'
				45'
SAND, as above				50'
				55'
				60'
SAND, as above			64.1' PLUG 65.4' #3 SAND	65'
				70'
Cobbles, Gravel, and Boulders			72.4'	
REFUSAL at 72.5'			Depth to bottom of gas probe 72.1'	75'
				80'
				85'
				90'
				95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
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JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 10/11/93

by Alex T. Feucht
Calif. RG # 4433

BORING LOG

NAME BORING #U

Layne Rig # D-34 (B-61XD) w/ 8" dia. Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SILT, Sandy, dry, brown,			PLUG 4'	0
			6.7'	5'
			PLUG 8'	
SAND, Silty, dry, brown			#3 SAND 10.2'	10'
SAND, with Gravel, moist well graded, brown, very fine to very coarse grained				15'
				20'
				25'
SAND, as above, olive gray to light blue gray			33.8'	30'
			PLUG 35'	35'
			#3 SAND 38'	
				40'
				45'
				50'
SAND, as above, light blue gray				55'
				60'
			64.3'	65'
			PLUG 66.8'	
			#3 SAND w/ some slough 71.5'	70'
COBBLES				
Refusal at 72'			72' TOTAL DEPTH	75'
			Depths to bottom of gas probes	80'
			10.0'	85'
			37.3'	90'
			71.3'	95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 FAX: (818) 707-3012

JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 10/11/93

by Alex T. Feucht
Calif. RG # 4433

BORING LOG

NAME BORING # V Layne Rig # D-34 (B-61XD) w/8" dia. Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry, brown			PLUG 3.6'	0
			6.7'	5'
			PLUG 8.5'	
			#3 SAND 10.2'	10'
SILTY SAND, slightly moist, brown				15'
SAND, very fine to very coarse, slightly silty at the top, some Gravel, moist, gray brown at top changing to olive grey at 30 feet, slight blush tint 30-70 feet.			34.3'	20'
			PLUG 37.7'	25'
			#3 SAND 40.4'	30'
				35'
				40'
				45'
				50'
				55'
				60'
SAND, as above			67.0'	65'
			PLUG 69.8'	70'
Cobbles, Gravel & Boulders			#3 SAND 73.8'	
Refusal at 74'			74' TOTAL DEPTH	75'
			Depths to bottoms of gas probes 10.0' 40.0' 73.5'	80'
				85'
				90'
				95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 FAX: (818) 707-3012

JOB NAME: PENROSE LANDFILL

JOB No. J152-6

DATE 10/01/93

by Alex T. Fouchet
Calif. R.G #4433

BORING LOG

NAME BORING #W Layne Rig #404 (AP1000) w/9" dia. Air Hammer

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SAND, very fine to coarse, well graded, dry, brown, some Gravel, some Silt			PLUG 4'	0
			7.0' PLUG 8'	5'
			#3 SAND 10.2'	10'
				15'
SAND with Gravel, very fine to very coarse, moist, occasional Gravel, cobble and boulder layers				20'
				25'
				30'
			34.7' PLUG 36' #3 SAND 37.8'	35'
				40'
				45'
				50'
				55'
				60'
				65'
				70'
Cobbles, Boulders, and Gravel			74.5' PLUG 76.0' #3 SAND 78.2'	75'
SAND, poorly graded, brown				80'
Cobbles, Boulders, and Gravel				85'
				90'
				95'
				100'
Cobbles, Boulders, and Gravel			115.2' PLUG 116.5' #3 SAND 118.5'	105'
				110'
				115'
				120'
				125'
occasional thin Sand layers				130'
				135'
				140'
				145'
				150'
			154.5' PLUG 156.5' #3 SAND	155'
			158.4' TOTAL DEPTH	160'
				165'
			Depths to bottom of gas probes	170'
				175'
			10.0' 37.6' 78.0' 118.0' 158.0'	180'
				185'
				190'
				195'
				200'

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EXHIBIT C

Core Group Toxic Air Contaminants

002590

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TABLE I: TOXIC AIR CONTAMINANTS -- CORE GROUP

1. Acetonitrile CH_3CN
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1 Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2 Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1 Dichloroethene (Vinylidene Chloride) $CH_2:CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C:CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1 Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichloroethylene $CHCl:CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2:CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT D

Traverse Grid Maps

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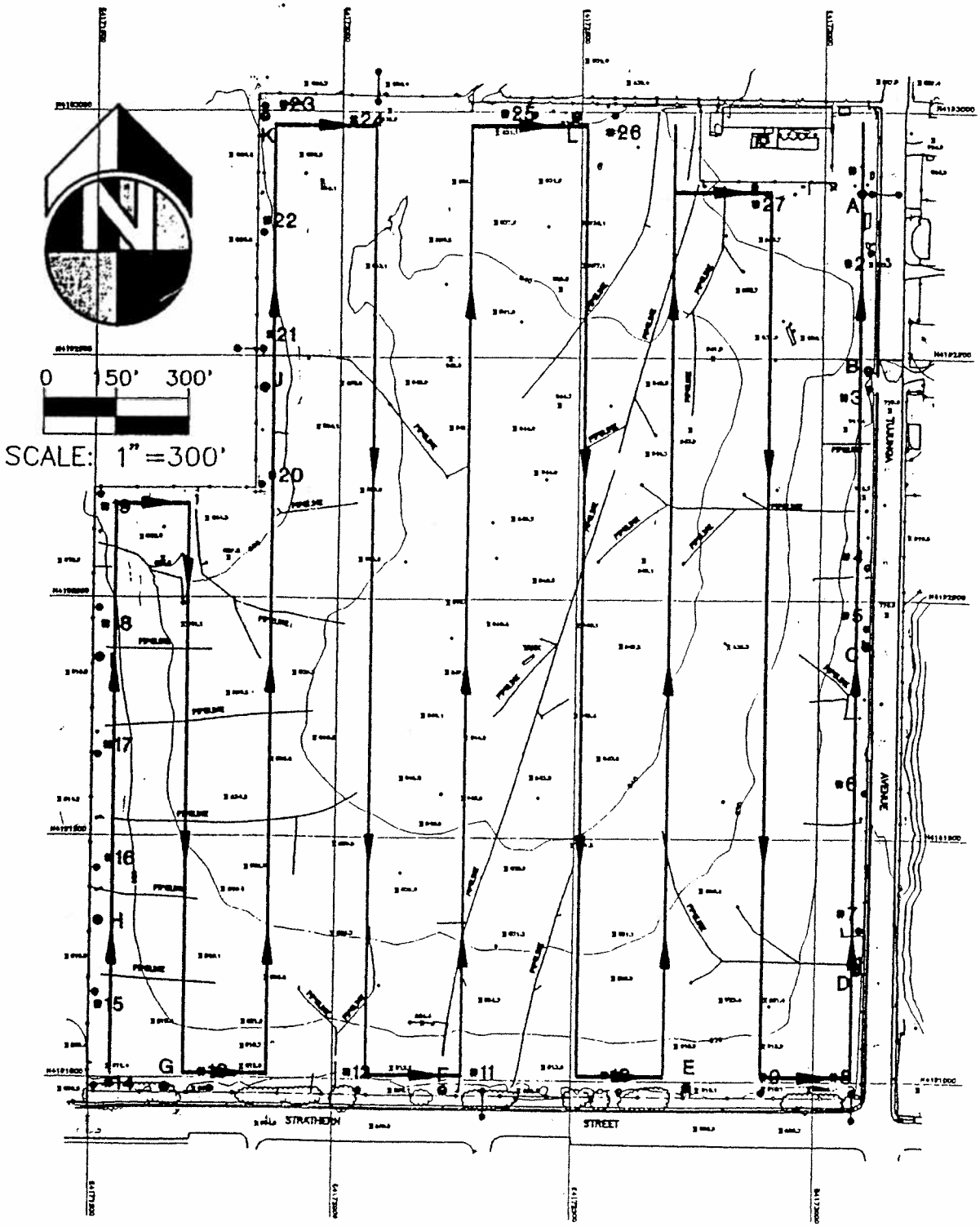
INSTANTANEOUS SURFACE MONITORING



PATH A

Drawing prepared by:
SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

For:
Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

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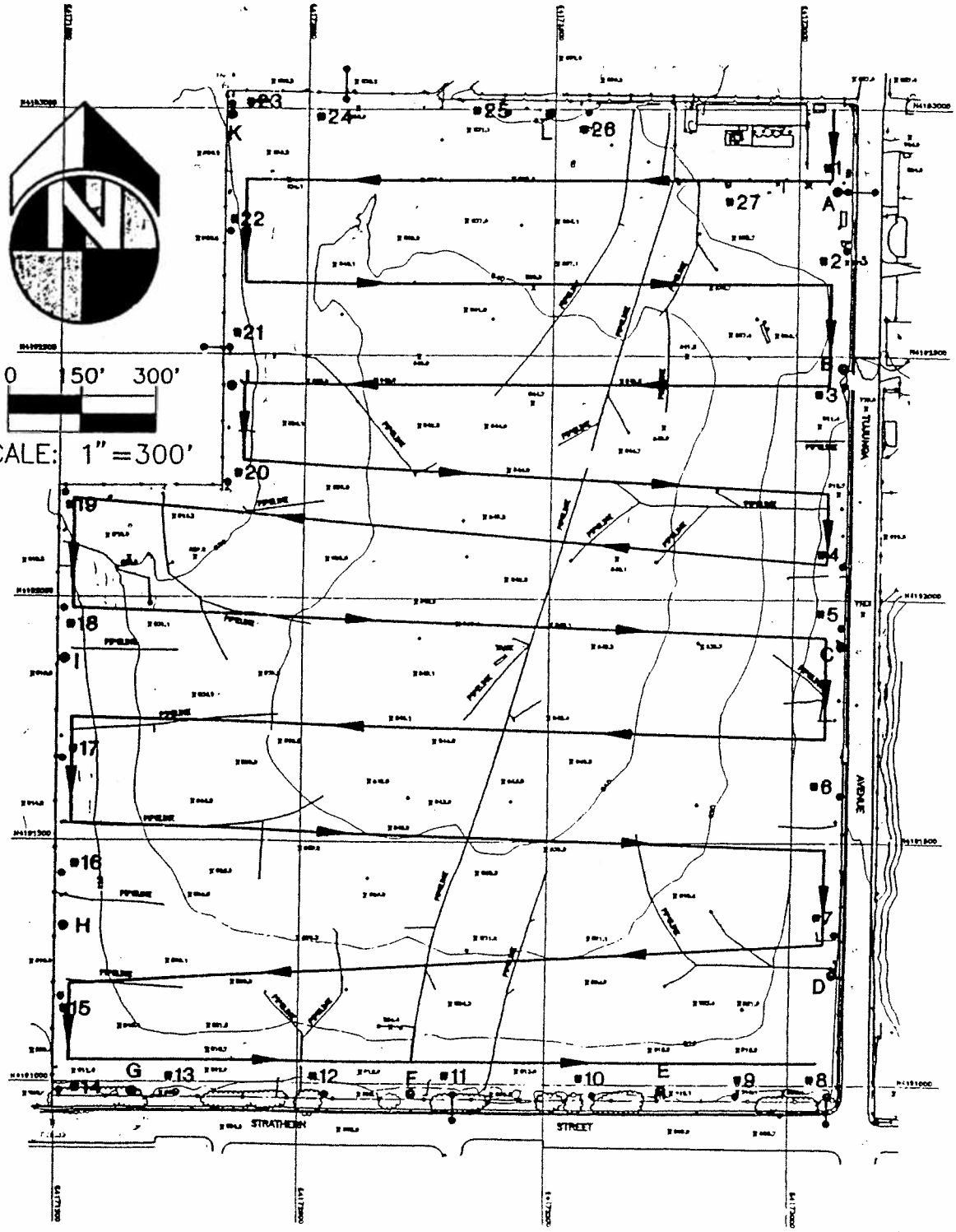
INSTANTANEOUS SURFACE MONITORING



PATH B

Drawing prepared by:

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Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
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EXHIBIT E

Field Data - Fourth Quarter, 1993 / EXHIBIT A

CONFIDENTIAL

9115-5:00 7:30 AM

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. B-Y PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 10/2/92

INSPECTION REPORT

CLIMATE: bright / clear / fog — cloudy / overcast / rain — <32° F / 33°-55° / 56°-70° — 71°-85° / 88°-100° / >100° F — still / breeze / wind — dry / moderate / humid

LOCATION: PERIMETER PROBES

PURPOSE: MONITOR WITH HPK

CONTRACTOR(S): L.A. B-Y PRODUCTS: SCOTT, BOB MCCALLISTER
SEPICH ASSOC: JEFF KLINGER
OTHERS: ALEX FLUGHT

REMARKS: • PROBES 1 THRU 27 ARE TYPICALLY VERY SHALLOW — 1 TO 2 FEET DEEP. THEY ARE 1/2" PLUMBING PIPE DRIVEN INTO GROUND WITH A SLEDGE HAMMER AND ARE NOT CAPPED. • PROBE "M" NOT FOUND ON MAP. • SEE "GAS CONCENTRATIONS" LOG FOR FINDINGS. • FAILED TO MONITOR "N" LOCATED AT SCHOOL. WILL MONITOR 10-23-92.

• RECOMMENDATIONS: TO HELP PRESERVE AND IDENTIFY PROBES, I SUGGEST EACH LOCATION BE MARKED WITH A WOODEN WIRE POST PAINTED A BRIGHT COLOR, AND EQUIPPED WITH A PLACARD IDENTIFYING THE PROBE #.

☐ REINSPECTION REQUIRED

INSPECTOR

PRINCIPAL

SHEET OF

002596

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Los Angeles By-. .oducts Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 10/22/93

Job # J152

GAS CONCENTRATIONS

INITIALS	~~[illegible]~~	JK
TIME	10:15	AF
INSTRUMENT	HPK	
PARAMETER	CH4	

REMARKS: (1) All CH4 readings are in %. Lower are w/ switch on 0-4% scale. Higher w/ switch on 0-100% scale. (2) New Probes P, Q, R, S, T, U, V and W

PROBE #		
1 (1')	Ø	
2 (1')	Ø	
3 (1')	Ø	
4 (1')	Ø	
5 (1')	Ø	
6 (1')	Ø	Blocked 1'
7 (1')	Ø	Block 1'
8 (1')	Ø	water
9 (1')	Ø	Block - 1'
10 (1')	Ø	Block 1'
11 (>5')	Ø	> 5'
12 (>5')	Ø	> 5'
13	Ø	Block @ 1.5
14	Ø	> 5'
15	Ø	BLOCKED AT 1.0'
16	Ø	> 5'
17	Ø	BLOCKED AT 0.5'
18	Ø	BLOCKED AT 0.5
19	Ø	> 5'
20	Ø	O_2 SPIKE >25%
21	0.1	>.5'
22	Ø	BLOCKED AT 1'
23	Ø	BLOCKED AT 1.5'
24	Ø	> 5'
25	Ø	1.5' FEET
26	Ø	BLOCKED AT 2.5'
27	UNDER CONCRETE SLAB AT CHANNEL	

PROBE #			
A		DESTROYED	
B		Ø	
C	GREEN-21'	Ø	
	YELLOW-41'	Ø	
	ORANGE-61'	23%	100% SCALE
	RED-81'	Ø	
D		1-3% @ 1% STEADY	SPIKE AT 12%
E		Ø	18% O_2
F		1.5	5% O_2
G		Ø	5% O_2
H		Ø	
I	GREEN-17'	CAN'T	FIND
	YELLOW-37'	CAN'T	FIND
	ORANGE-57'	Ø	
	RED-77'	CAN'T	FIND
J		Ø	
K		Ø	IN THE CACTUS
L	GREEN-45'	PROBE BROKEN AT GRADE	5' FROM FENCE
	YELLOW-65'	Ø	6' EAST OF BLDG CORNER
	ORANGE-85'	Ø	
	RED-105'	Ø	
M		BURIED FOR LA EX PRODS.	
N	GREEN-22'	Ø	19% O_2
	YELLOW-45'	Ø	8% O_2
	ORANGE-68'	Ø	2% O_2
	RED-90'	Ø	
P	10'	18% [illegible]	
	40'	5% [illegible]	
	80'	33% [illegible]	
P-1	120'	Ø	

PROBE #			
Q	10'	13% / 100% Scale	
	40'	45% / 100% Scale	
	75'	0.25% / 4% Scale	
Q-1	120'	0.2% / 4% Scale	
	158'	38% / 4% Scale	
R	10'	2.5% / 4% Scale	
	40'	5% / 100% Scale	
	80'	3.2% / 4% Scale	
	120'	0.1% / 4% Scale	
S	10'	0% / 4% Scale	
	40'	0.5% / 4% Scale	
	80'	0% / 4% Scale	
	120'	0% / 4% Scale	
T	10'	0.15%	
	40'	1.6%	
	73'	5.0 @ 4%	
T-1	72'	2.8 @ 4%	
U	10'	0.5%	
	37'	26%	
	68'	3%	
V	10'	0.7%	
	40'	17%	100% SCALE
	73'	Ø	
W	10'	Ø	
	40'	0.1%	
	80'	0.2%	
	120'	0.2%	
	158'	0.3%	

REMARKS (3) None of probes 1-27, A-N uncapped (4) Moves the [illegible] destroyed

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3036 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8987

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9:00-3:00 6.0 HRS.

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BYPRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 10/25/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still		dry	
(clear)	overcast	33°-55°	86°-100°	(breeze)		(moderate)	
fog	rain	56°-70°	>100° F	wind		humid	

WORK AREA: METHANE GAS PROBE READINGS / OFFICE

CONTRACTOR(S), PERSONS ON SITE:
PACIFIC ENERGY (TONY)
L.A. BY-PRODUCTS (MARTIN)

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
■ MONITOR PROBES	○	●
☐	○	○
☐	○	○
☐	○	○

REMARKS: • OBTAINED THE ASSISTANCE OF MARTIN AND TONY TO LOCATE PROBES NOT FOUND ON 10-22-93, AND TO DETERMINE WHICH PROBES HAVE BEEN DESTROYED OR OTHERWISE LOST. • TOOK HPK READINGS OF REMAINING PROBES. UPDATED GAS CONCENTRATION REPORT. • REVIEWED REPORT WITH J. SEPICH AND UPDATED OUR MAP TO REFLECT ACCURATE LOCATIONS AND STATUS OF ALL PROBES INSTALLED TO DATE.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?)

INSPECTOR

PI

002598

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9:30-5:30 8.0 HRS.

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9121
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 10/29/93

INSPECTION REPORT

CLIMATE: bright / clear / fog / cloudy / overcast / rain

<32° F / 33°-55° / 56°-70° / 71°-85° / 86°-100° / >100° F

still / breeze / wind

dry / moderate / humid

LOCATION:

PURPOSE: COMPLIANCE WITH AQMD RULE 1150.1 PARTICULARLY SECTIONS 9.2, 9.3 AND 9.4

CONTRACTOR(S):

REMARKS: • FOXBORO OVA, MODEL: CENTURY 128. SET AT 1X SCALE ALARM SET AT 5 PPM. RESPONSE TIME IS APPROX. 2 SECONDS.
11:00 — BEGIN SWEEP AND FOLLOW GRID PER SEPICH ASSOC PATH-A.
2:30 - COMPLETED PATH-A. AS NOTED ON MAP, THERE IS ONLY ONE WELL WHICH READ OVER 500 PPM (100X SCALE). 500 PPM + ZONES ARE:

SEE LOCATIONS ON PLAN

1. ALONG THE SOUTH BOUNDARY, EASTERN END, AT SETTLEMENT CRACKS
2. ALONG EAST BOUNDAY IN THE VICINITY OF PROBE 6, AT SETTLEMENT CRACKS
3. AT SETTLEMENT CRACK DUE WEST OF LANDFILL SECONDARY GATE
4. AT LARGE POTHOLES ADJACENT TO PIPELINE IN N.E. QUADRANT.
5. AT WELL #E

500 LBS. OF HYDROGEN CONSUMED. COMBINED DISTANCE OF PATHS A AND B IS APPROX. 6 MILES AND DOES NOT INCLUDE SIDETRACKING TO WELLS, NOR IRREGULAR PATHS DUE TO LACK OF LANDMARKS.

LA ByPro. H_2 supply cylinder down too low for good recharge. Brought OVA to Sepich Associates office to recharge from higher pressure H_2 cylinder there.

☒ REINSPECTION REQUIRED AFTER 500 ppm SOURCES ARE FIXED.

INSPECTOR

PRINCIPAL

SHEET__ OF__

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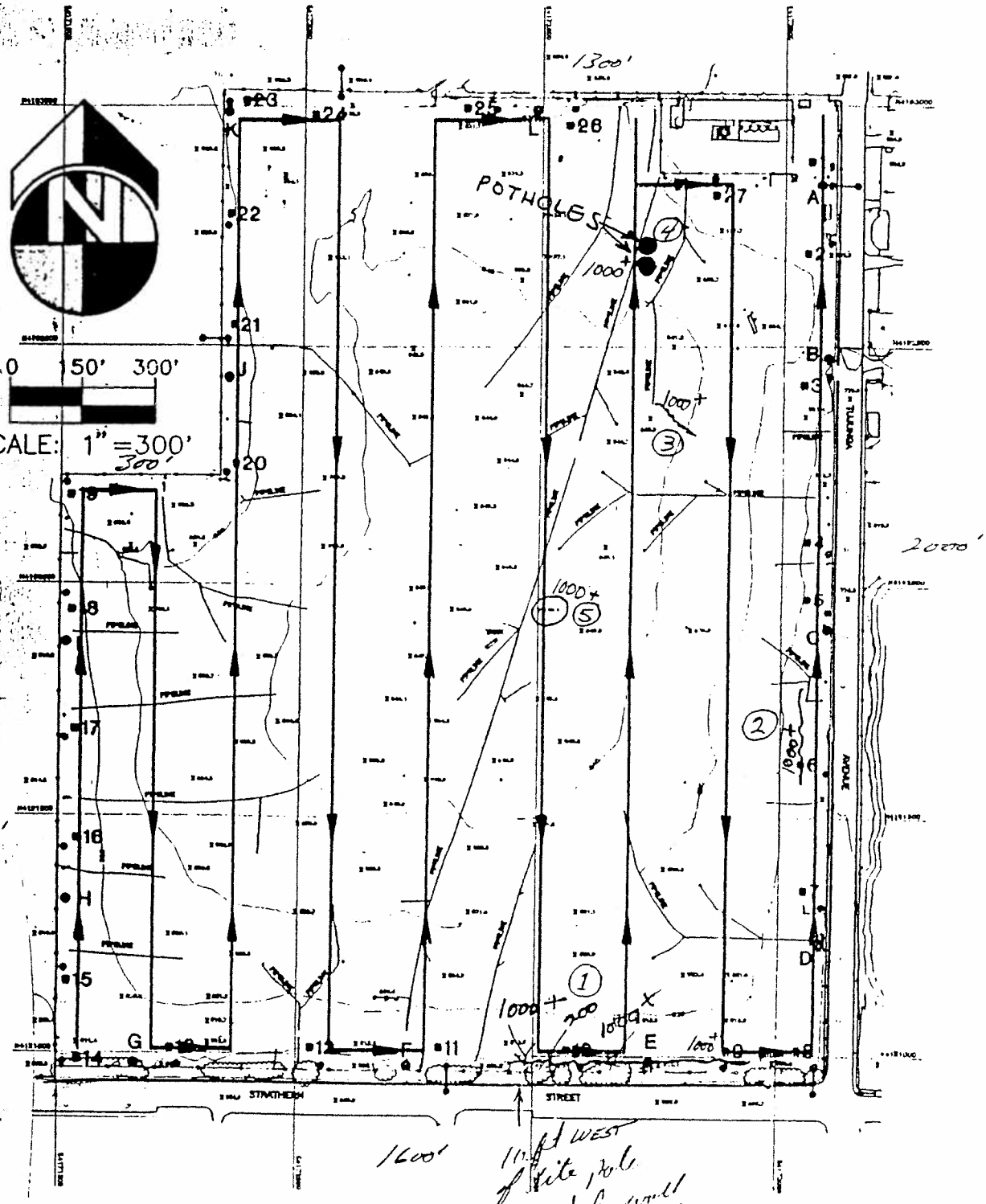
INSTANTANEOUS SURFACE MONITORING



PATH A

Drawing prepared by:

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
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TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

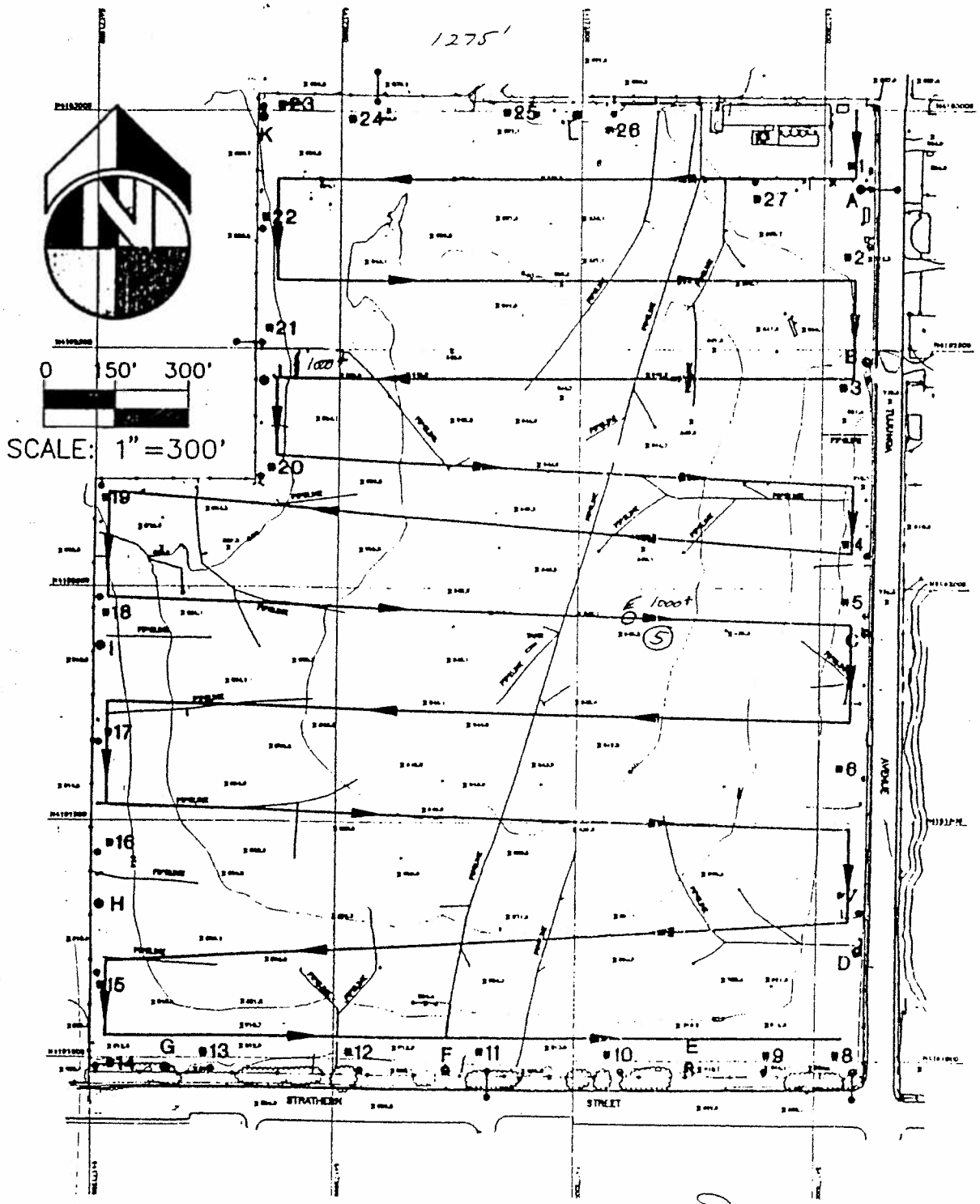
For:

Los Angeles By-Products Co.
Incorporated 1925
1811 East 25th St., Los Angeles, CA 90058
Tel. (213) 223-4170 Fax: (213) 223-4170

002600

CONFIDENTIAL

INSTANTANEOUS SURFACE MONITORING



10-29-93

PATH B

Drawing prepared by:

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

For:

Los Angeles By-Products Co.
Incorporated 1925
1800 East 21st St., Los Angeles, CA 90058
Tel: (213) 233-4125 Fax: (213) 233-4170

CONFIDENTIA

1100-1215 5.25 Hrs.

SEPICH ASSOC. TES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6
DATE 11/10/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still	dry
clear	overcast	33°-55°	86°-100°	breeze	moderate
fog	rain	56°-70°	>100° F	wind	humid

WORK AREA: _____

CONTRACTOR(S), PERSONS ON SITE

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS:
- MET W/ J. SEPICH AT LA BREA AND SAN VICENTE TO PICK UP TEDLAR BAGS AND COMPLETE CONSTRUCTION OF VACCUM BOX.
- 9:00 SAMPLED AIR INTO 1 LITER BAGS AT:
  1.) C-61
  2.) P-40
  3.) Q-45
  4.) U-68 (PACIFIC ENERGY DETECTED 50% L.E.L. YESTERDAY)
  5.) PACIFIC ENERGY PLANT SUPPLY GAS FROM PENROSE
- TOOK SAMPLES TO PERFORMANCE ANALYTICAL, CANOGA PARK SEE CHAIN OF CUSTODY LETTER.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?) _____

INSPECTOR

OF __

002602

CONFIDENTIA

7:00-8:00 1.0 Hrs

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 11/12/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE: bright, clear, fog; cloudy, overcast, rain; <32° F, 33°-55°, 56°-70°; 71°-85°, 86°-100°, >100° F; still, breeze, wind; dry, moderate, humid

WORK AREA: INTEGRATED SURFACE SAMPLING

CONTRACTOR(S), PERSONS ON SITE
SCOTT
BOB MCCALLISTER

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS: • WIND IS IN EXCESS OF 5 MPH. SAMPLING POSTPONED TO TUESDAY, 11-16-93 @ 7AM

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?)

INSPECTOR

PRINCIPAL

002603

CONFIDENTIA

1:00 - 8:00

1.0 HRS.

SEPICH ASSOC. JTES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. JT52-6

DATE 11/12/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still	dry
(clear)	overcast	33°-55°	86°-100°	(breeze)	(moderate)
fog	rain	(56°-70°)	>100° F	wind	humid

WORK AREA: AQMD INTEGRATED SURFACE SAMPLING

CONTRACTOR(S), PERSONS ON SITE

BOB McCALLISTER

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS: WIND SPEED AT LANDFILL IS IN EXCESS OF 5 MPH. SAMPLES CANNOT BE TAKEN PER RULE 1150.1. SAMPLING RESCHEDULED FOR TUESDAY, NOV. 16.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION. (AT WHAT STAGE OF WORK ?)

INSPECTOR

OF

002604

CONFIDENTIAI

6:30-7:30 2:00-3:30 2.5 HRS.

SEPICH AB HATKE, Inc.
METHANE SPECIALISTS
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 11/16/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still	dry
clear	overcast	33°-55°	86°-100°	breeze	moderate
fog	rain	56°-70°	>100° F	wind	humid

WORK AREA: _____

CONTRACTOR(S), PERSONS ON SITE

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS: • MET WITH SCOTT, L.A.B.P., AT STATION SOUTH HOUSE. WIND AT PENROSE IN EXCESS OF 5 MPH (7.5 FT/SECOND). ABANDONED EFFORT TO MAKE INTEGRATED SURFACE SWEEP 1:45 - TEL. CALL TO MARTIN CONFIRMS THAT IT IS STILL HANDY AT PENROSE. • DELIVERED LABP'S EMPTY HYDROGEN BOTTLE TO MATHESON INDUSTRIAL GAS CUCAMONGA, AND PICKED UP NEW BOTTLE. GAS CHARGED TO LABP ACCOUNT.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?) _____

INSPECTOR

PRINCIPAL

OF ___

CONFIDENTIAL

8:30 – 10:00 1.5

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J 152-6

DATE 11/18/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°–85°	still	dry
clear	overcast	33°–55°	86°–100°	breeze	moderate
fog	rain	56°–70°	>100° F	wind	humid

WORK AREA: _____

CONTRACTOR(S), PERSONS ON SITE

SCOTT
ADEL
MARTY

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS: • BEGAN INTEGRATED SURFACE SAMPLING. BEFORE FIRST 10 LITRE BAG WAS FILLED, WINDS EXCEEDED 5 MPH. EFFORT TO CONTINUE WAS ABANDONED.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?) _____

INSPECTOR

PRINC

002606

CONFIDENTIAL

7:00 – 11:3 **PENROSE** 4/5

REGION ASSOCIATES, Inc.
METHANE SPECIALISTS
3917 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3039 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J-153-6
DATE 12/14/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE: bright, (cloudy), clear, overcast, fog, rain | ≤32° F, 33°–55°, 56°–70°, 71°–85°, 86°–100°, >100° F | (still), breeze, wind | dry, (moderate), humid

WORK AREA: INSTANTANEOUS SURFACE MONITORING (ISM)

CONTRACTOR(S), PERSONS ON SITE
SCOTT
MARTIN
ABEL

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS: • USING FOXBORO CENTURY 12 O.V.A. INSTALLED BATTERY WHICH HAS BEEN ON CHARGER FOR SEVERAL DAYS. FILLED MECHANICAL TRAPS. ALARM SET @ 5% SCALE SET @ 1X. • 7:40 BEGAN ISM ON PERIM-A. LAST RAINFALL WAS 12-11-93 • 9:45 - BREAKS. • 10:40 - COMPLETED ISM. ONLY ONE LOCATION > 500 PPM AT S.W. CORNER, AS NOTED ON MAP.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?) _____

INSPECTOR _____ PRINCIPAL _____

002607

CONFIDENTIAL

12:30 – 3:30 3.0

REGION ASSOCIATES, Inc.
METHANE SPECIALISTS
3017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3030 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LAND FILL

JOB No. J152-6

DATE 12/17/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE: bright / (clear) / fog — cloudy / overcast / rain — <32° F / 33°–55° / (56°–70°) — 71°–85° / 86°–100° / >100° F — still / (breeze) / wind — dry / (moderate) / humid

WORK AREA: MONITOR PROBES W/ HPK

CONTRACTOR(S), PERSONS ON SITE
SCOTT
ABEL

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
○ INSPECT VENT PIPING	○	○
○ INSPECT MEMBRANE	○	○
○ INSPECT ELECTRONIC SYSTEM	○	○
○ INSPECT MECHANICAL SYSTEM	○	○
○ INSPECT PROBE CONSTRUCTION	○	○
● MONITOR PROBES	○	●
○	○	○
○	○	○
○	○	○

REMARKS: • MONITORED PROBES PER RULE 1150.1 (7.2) WITH DACHARACH MODEL HPK. EACH PROBE MONITORED FOR A MINIMUM OF ONE (1) MINUTE. • PROBES # P, Q ARE PROTECTED BY 12" Φ PVC TUBING AND CAP. • 3:30 -- PROBES 1 THRU 14, AND P, P-1, Q, Q-1, R AND S HAVE BEEN MONITORED AND RECORDED.

○ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?)

INSPECTOR

PRINCIPAL

002608

CONFIDENTIAL

DEC-10-1993 18:36 FROM SEPTICH/METHANE SPECIALIST TO 15096248834 P.03

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4178 Fax: (213) 233-4170

PENROSE LANDFILL

Date 12/17/93
Job # J152-6

GAS CONCENTRATIONS

INITIALS	HBA	HBA	REMARKS: DECEMBER 1993
TIME	13:00	15:00	AQMD 1150.1 COMPLIANCE
INSTRUMENT	HPK	HPK	
PARAMETER	100%	%	

PROBE #	CH4	O2	PROBE #		CH4	O2	PROBE #		CH4	O2
1	ND	21.0		A	DESTROYED		Q	10'	8	16.0
2	ND	21.0	*	B				40'	10	19.0
3	ND	20.0	*	GREEN-21'				75'	3	18.5
4	ND	20.0	C	YELLOW-41'			Q-1	120'	0.5	19.0
5	ND	21.0		ORANGE-61'				158'	ND	21.0
6	ND	21.0		RED-81'			R	10'	0.5	20.0
7	ND	20.5	*	D				40'	1	18.0
8	1	18.0	*	E				80'	ND	21.0
9	1	18.0	*	F				120'	ND	21.0
10	1	20.0	*	G			S	10'	ND	21.0
11	ND	21.0		H				40'	ND	21.0
12	ND	20.0	I	GREEN-17'				80'	1	20.0
13	0.5	18.0		YELLOW-37'				120'	ND	21.0
14	ND	21.0		ORANGE-57'			T	10'		
15				RED-77'				40'		
16				J				73'		
17				K			T-1	72'		
18			L	GREEN-45'			U	10'		
19				YELLOW-65'				37'		
20				ORANGE-85'				68'		
21				RED-105'			V	10'		
22				M	DESTROYED			40'		
23			SCH	GREEN-22'				73'		
24			N	YELLOW-46'			W	10'		
25				ORANGE-68'				40'		
26				RED-90'				60'		
27	DESTROYED		P	10'	10	17.0		120'		
				40'	12	17.0		158'		
				80'	3	19.5				
			P-1	120'	2	19.0				

Form prepared by: METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-8321
FAX: (818) 707-3012 (805) 373-8987

CONFIDENTIAL

8:45-2:45

PENROSE

6.0

BEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J-152-6

DATE 12/20/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still
(clear)	overcast	33°-55°	86°-100°	(breeze)
fog	rain	(56°-70°)	>100° F	wind

dry (moderate) humid

WORK AREA: MONITOR PERIMETER PROBES

CONTRACTOR(S), PERSONS ON SITE

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
■ MONITOR PROBES	○	●
☐	○	○
☐	○	○
☐	○	○

REMARKS: CONTINUATION OF PERIMETER PROBE MONITORING BEGUN 12-17-93.
• TOOK TEDLAR BAG SAMPLE FROM PLANT INPUT PIPELINE. HPK@ 100%: 15 CH_4, 15.5 O_2. ISC # HS267: 65 PPM-H_2S
• MANY OF THE PROBES ARE DIFFICULT TO LOCATE. RECOMMEND A STANDARD, BRIGHT COLORED PLACARD TO IDENTIFY PROBE LOCATIONS, AND BRASS I.D. TAGS ON EACH PROBE TUBE. • READINGS AT SHALLOW (NUMBERED) PROBES MAY BE RESULTING FROM RECENT RAINS (2 WEEKS) WHICH WOULD HAVE A SEALING EFFECT AT TOP SOIL. • AT PROBE-N, THE RED TYGON TUBE BREAKS EASILY, AS DOES THE GREEN, BUT NOT SO EASILY. • THE 5 HIGHEST READINGS ARE: P-40 (12%), P-10 (10%), Q-40 (10%), Q-10 (8%), I-COMB (5%)
• COMPLETED MONITORING AT 1:30.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?) _____

INSPECTOR

PRINCIPAL

002610

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1929
1810 East 25th St., Los Angeles, CA 90058
Tel (213) 233-4175 Fax (213) 233-4170

PENROSE LANDFILL

Date 12/17/93 12/20/93

Job # J152-6

GAS CONCENTRATIONS

INITIALS	HBA	HBA
TIME	13:00	15:00
INSTRUMENT	HPK	HPK
PARAMETER	100%	%

REMARKS: DECEMBER 1993 AQMD 1150.1 COMPLIANCE

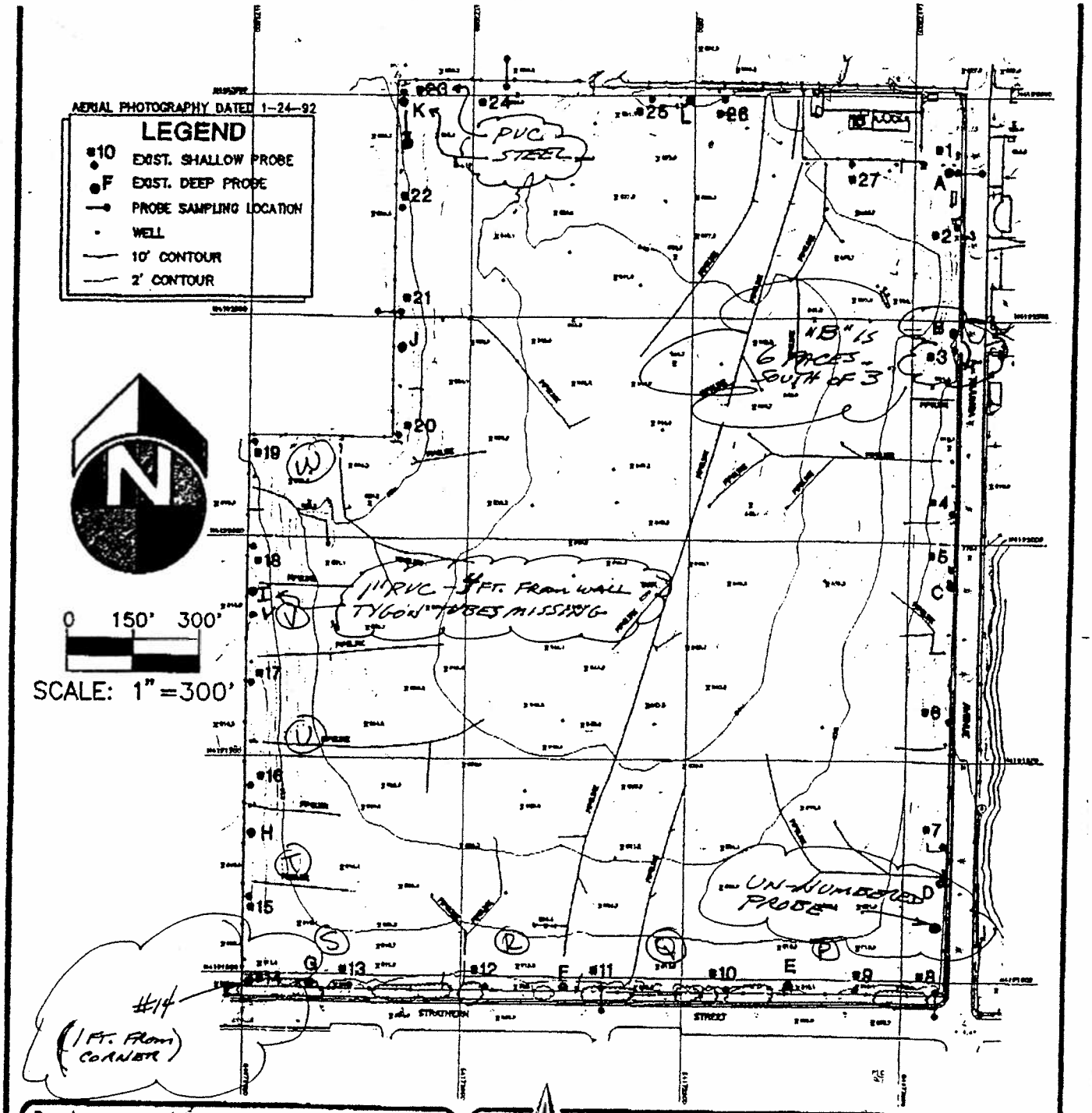
PROBE #	CH4	O2
1	ND	21.0
2	ND	21.0
3	ND	20.0
4	ND	20.0
5	ND	21.0
6	ND	21.0
7	ND	20.5
8	/	18.0
9	/	18.0
10	/	20.0
11	ND	21.0
12	ND	20.0
13	0.5	18.0
14	ND	21.0
15	ND	21.0
16	ND	21.0
17	0.5	20.5
18	ND	21.0
19	ND	21.0
20	ND	21.0
21	ND	21.0
22	ND	21.0
23	ND	21.0
24	ND	21.0
25	ND	21.0
26	ND	21.0
27	DESTROYED	

PROBE #		CH4	O2
	A	DESTROYED	
*	B	/	18.0
* C	GREEN-21'	ND	21.0
C	YELLOW-41'	ND	21.0
C	ORANGE-61'	/	16.0
C	RED-81'	ND	21.0
*	D	/	19.0
*	E	ND	20.2
*	F	/	17.7
*	G	2	15.0
	H	/	20.7
I	GREEN-17'	only 1/4" PVC exists	
I	YELLOW-37'	5	15.0
I	ORANGE-57'	no introduced	
I	RED-77'	1 gas tubes	
	J	ND	21.0
	K	ND	21.0
L	GREEN-45'	/	19.0
L	YELLOW-65'	ND	21.0
L	ORANGE-85'	ND	21.0
L	RED-105'	ND	21.0
	M	DESTROYED	
SN N	GREEN-22'	ND	21.0
N	YELLOW-46'	/	18.5
N	ORANGE-68'	/	19.0
N	RED-90'	1.5	18.5
P	10'	10	17.0
P	40'	12	17.0
P	80'	3	19.5
P-1	120'	2	19.0

PROBE #		CH4	O2
Q	10'	8	16.0
Q	40'	10	17.0
Q	75'	3	18.5
Q-1	120'	0.5	19.0
Q-1	158'	ND	21.0
R	10'	0.5	20.0
R	40'	/	18.0
R	80'	ND	21.0
R	120'	ND	21.0
S	10'	ND	21.0
S	40'	ND	21.0
S	80'	/	20.0
S	120'	ND	21.0
T	10'	ND	21.0
T	40'	ND	21.0
T	73'	ND	21.0
T-1	72'	ND	21.0
U	10'	ND	21.0
U	37'	ND	21.0
U	68'	ND	21.0
V	10'	ND	21.0
V	40'	ND	21.0
V	73'	ND	21.0
W	10'	ND	21.0
W	40'	ND	21.0
W	80'	ND	21.0
W	120'	ND	21.0
W	158'	ND	21.0

METHANE SPECIALIST • WESTLAKE VILLAGE, CA 91362 FAX (818) 707-3012 (805) 373-8887

CONFIDENTIA



Drawing prepared by:

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

For:

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE PIT

WELL AND PROBE LOCATIONS

CONFIDENTIA

7:30-5:30 10.0

BEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8887

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J-152-6

DATE 12/21/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE: bright / clear / fog — cloudy / overcast / rain — <32° F / 33°-55° / 56°-70° — 71°-85° / 86°-100° / >100° F — still / breeze / wind — dry / moderate / humid

WORK AREA: > 5% CH4 PROBES / Integrated Surface Sampling

CONTRACTOR(S), PERSONS ON SITE

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
■ COLLECT 10 L AIR SAMPLES	○	●
☐	○	○
☐	○	○

REMARKS: • 8:30 - BEGAN > 5% CH4 PROBE MONITORING AND AIR SAMPLING INCLUDING PLANT SUPPLY LINE. COMPLETED WORK AT 11:30 • PREPARED EQUIPMENT FOR INTEGRATED SURFACE SAMPLING. • 2:15 - BEGAN I.S.S. - SEE ATTACHED MAP FOR LOCATIONS. 4:55 - COMPLETED I.S.S. - 5 ZONES.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?) _____

INSPECTOR

PRINCIPAL

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L. A. BY-PRODUCTS PENROSE LANDFILL

JOB No.: J-152-6

GAS CONCENTRATIONS

DATE	12/21/93	12/21/93	12/21/93				REMARKS
TIME	08:30	08:30	08:30				
INITIALS	HBA	HBA	HBA				
INSTRUMENT	HPK 100%	HPK 100%	HS 267				
PARAMETER	CH4	O2	H2S				
P-40 FT.	30	09.0	000				10 LITRE SAMPLE
P-10 FT.	16	15.5	000				" " "
Q-40 FT.	8	17.0	000				" " "
Q-10 FT.	27	11.5	000				" " "
I-COMBINED	Ø	21.0	000				NO SAMPLE TAKEN*
PLANT INLET	45	02.0	099				10 LITRE SAMPLE
							* PLANT HAS BEEN PULLING GAS "HARD" FROM THIS ZONE, PER TONY, PACIFIC ENERGY

SHEET__OF__

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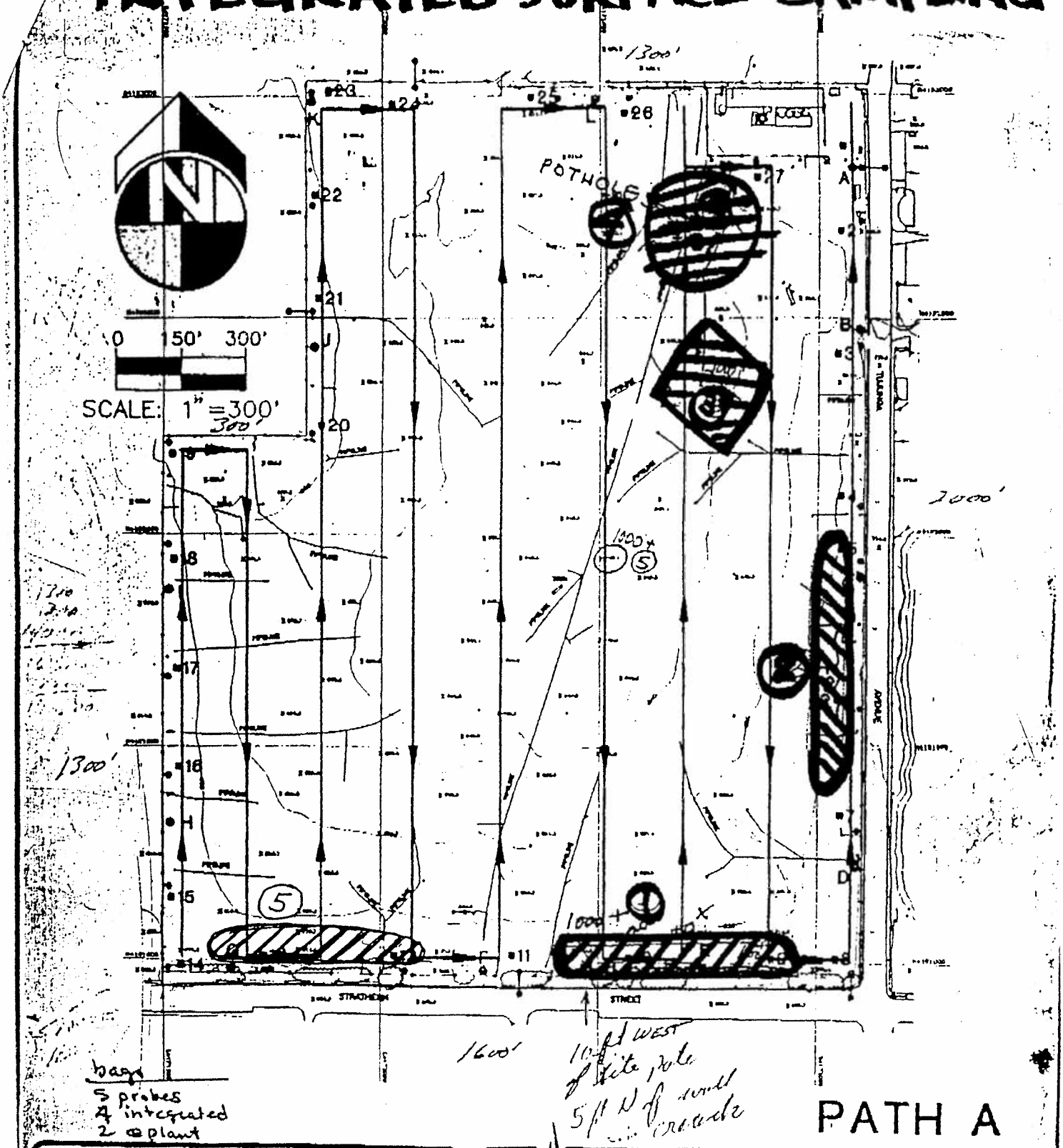
~~INSTANTANEOUS SURFACE MONITORING~~
INTEGRATED SURFACE SAMPLING



PATH A

Drawing prepared by:
SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8887

For:
Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4171 Fax: (213) 233-4120

EXHIBIT F

Laboratory Analytical Results - Fourth Quarter, 1993

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Performance Analytical Inc.
Environmental Testing and Consulting

LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	11/18/93
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	11/10/93
	Westlake Village, CA 91362	PAI Project No:	5786
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose Landfill		

Five (5) Tedlar Bag Samples labeled:

"PAC-Energy-In" "C-61" "P-40"
"Q-45" "U-68"

The samples were received at the laboratory under chain of custody on November 10, 1993. The samples were received intact. The samples were analyzed on November 10, 1993.

Methane Analysis

One of the samples was analyzed for Methane according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

The other samples were analyzed for Methane using a gas chromatograph equipped with a thermal conductivity detector (GC/TCD).

The results of analyses are included on the attached data sheet.

Data Release Authorization:

Sharon L. Gibson
Analytical Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

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PERFORMANCE ANALYTICAL INC.

RESULTS OF METHANE ANALYSIS

Client: Sepich Associates

Client Project ID: Penrose Landfill
PAI Project ID: #5786

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bag
Date Received: 11/10/93
Date Analyzed: 11/10/93

Client Sample ID	PAI Sample ID	Methane Concentration in ppm, v/v	
		Result	Detection Limit
C-61 (11/10/93) (09:45)	9304448	230	0.50
C-61 (11/10/93) (09:45)	Lab Duplicate	230	0.50
N/A (11/10/93)	Method Blank	ND	0.50

ND = Not Detected - Less Than Indicated Detection Limit

RESULTS OF FIXED GASES ANALYSIS

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 11/10/93
Date Analyzed: 11/10/93

Client Sample ID	PAI Sample ID	Methane (%, v/v)	
		Result	Detection Limit
PAC-ENERGY-IN (11/10/93)	9304447	42.5	0.0200
P-40 (11/10/93) (10:00)	9304449	43.9	0.0200
Q-45 (11/10/93) (10:15)	9304450	37.6	0.0200
U-68 (11/10/93) (10:30)	9304451	49.1	0.0200
U-68 (11/10/93) (10:30)	Lab Duplicate	49.0	0.0200
N/A (11/10/93)	Method Blank	ND	0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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Performance Analytical Inc.
Environmental Testing and Consulting

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Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	ANALYSES	PAI Project No.
[illegible] ASSOCIATES	818-707-3036 2617 E. THOUSAND OAKS WESTLAKE VILLAGE		
Project Location: PAIMOSE LANDFILL	Client Project No.		
Contact: [illegible]	Sampler (Signature): [illegible]	P.O. No.	

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	CH4						Expected Turnaround Time	Remarks
[illegible]	11-10-93	09:30			✓							
[illegible]	11-10-93	09:45			✓							
[illegible]	11-10-93	10:00			✓							
[illegible]	11-10-93	10:15			✓							
[illegible]	11-10-93	10:30			✓							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[illegible]	11-10-93	12:12	[illegible]	11/10/93	12:12
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Disposal Method					
Disposed by: (Signature)	Date	Time			

White Copy : Accompanies Samples

Yellow Copy : Sampler

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TABLE 1 SUMMARY OF ANALYTICAL RESULTS

SUMMARY OF ANALYTICAL RESULTS										
SAMPLE / CONSTITUENT (Units)[2]	P-10	P-40	Q-10	Q-40	ISS-1	ISS-2	ISS-3	ISS-4	ISS-5	PLANT INLET
Methane (% V/V)[3]	43.6	42.7	41.6	33.3	0.00026	0.00023	0.00023	0.00021	0.00034	42.6
NMHC (% V/V)	0.13	0.24	0.14	0.21	0.00075	0.00047	0.00066	0.00053	0.00043	0.73
Vinyl Chloride	<99	3700	1900	1200	<2.0	<2.0	<2.0	<2.0	<2.0	<1200
1,1-Dichloroethene	<64	<64	<64	<64	<1.3	<1.3	<1.3	<1.3	<1.3	<790
Methylene Chloride	<73	<73	<73	<73	2.2	2.1	2.1	2.3	3.1	2,900
1,1-Dichloroethane	51 TR	<62	<62	<62	<1.2	<1.2	<1.2	<1.2	<1.2	<770
Chloroform	<52	<52	<52	<52	<1.0	<1.0	<1.0	<1.0	<1.0	<640
1,2-Dichloroethane	<62	<62	<62	<62	<1.2	<1.2	<1.2	<1.2	<1.2	<770
1,1,1-Trichloroethane	<46	<46	<46	<42	3.2	3.1	3.1	3.0	2.8	<570
Benzene	980	290	1100	210	23	20	29	16	25	2,000
Carbon Tetrachloride	<40	<40	<40	<40	<0.80	<0.80	<0.80	<0.80	<0.80	<500
Trichloroethene	<47	65	<47	92	<0.94	<0.94	0.54 TR	1.4	<0.94	<580
Toluene	<66	82	190	75	31	33	40	32	43	31,000
Tetrachloroethene	<37	<37	<37	<37	1.9	<0.75	3.4	5.6	2.0	250 TR
Chlorobenzene	1800	7900	1100	1300	<1.1	<1.1	<1.1	<1.1	<1.1	1,400
Total Xylenes	520	66	1200	69	28	33	39	35	28	32,000
1,3-Dichlorobenzene	<42	<42	<42	<42	<0.84	<0.84	<0.84	<0.84	<0.84	<520
1,4-Dichlorobenzene	530	680	1500	850	<0.84	<0.84	<0.84	<0.84	<0.84	660
1,2-Dichlorobenzene	<42	<42	160	<42	<0.84	<0.84	<0.84	<0.84	<0.84	<520
Benzyl Chloride	<49	<49	<49	<49	<0.97	<0.97	<0.97	<0.97	<0.97	<600

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SUMMARY OF ANALYTICAL RESULTS										
SAMPLE / CONSTITUENT (Units)[2]	P-10	P-40	Q-10	Q-40	ISS-1	ISS-2	ISS-3	ISS-4	ISS-5	PLANT INLET
Hydrogen (% V/V)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2
Oxygen (% V/V)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.218
Nitrogen (% V/V)	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.0
Carbon Monoxide (% V/V)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2
Carbon Dioxide (% V/V)	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.2

NOTES:

1. Sample designations P and Q correspond to vapor probes P and Q. The numbers 10 and 40 correspond to the screen depths of the particular vapor probes from which the samples were collected. ISS = Integrated surface samples.
2. All analytical results are in parts per billion (ppb) except where noted.
3. % V/V = volume percent of constituent.
4. < = less than the detection limit given.
5. NMHC = non-methane hydrocarbons.
6. TR = trace level below indicated detection limit.
7. NA = sample was not analyzed for the constituent.

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LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	01/04/93
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	12/22/93
	Westlake Village, CA 91362	PAI Project No:	5945
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose Landfill #J-152-6		

Ten (10) Tedlar Bags labeled:

"P-10"	"P-40"	"Q-10"	"Q-40"	"ISS-1"
"ISS-2"	"ISS-3"	"ISS-4"	"ISS-5"	"Plant Inlet"

The samples were received at the laboratory under chain of custody on December 22, 1993. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

SCAQMD Method 25.2 Analysis

The samples were analyzed for Methane and Total Gaseous Non-Methane Organics according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

Fixed Gases Analysis

One of the Tedlar Bag samples was analyzed for Fixed Gases (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Methane and Carbon Dioxide) and some of the samples were analyzed for Methane using a Hewlett Packard Model 5890 gas chromatograph equipped with a thermal conductivity detector (TCD).

Data Release Authorization:

Kathleen Aguilera

Kathleen Aguilera
Analytical Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

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LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	01/04/93
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	12/22/93
	Westlake Village, CA 91362	PAI Project No:	5945
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose Landfill #J-152-6		

Ten (10) Tedlar Bags labeled:

"P-10"	"P-40"	"Q-10"	"Q-40"	"ISS-1"
"ISS-2"	"ISS-3"	"ISS-4"	"ISS-5"	"Plant Inlet"

The samples were received at the laboratory under chain of custody on December 22, 1993. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

SCAQMD Method 25.2 Analysis

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One of the Tedlar Bag samples and were analyzed for Fixed Gases (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Methane and Carbon Dioxide) and some of the samples were analyzed for Methane using a Hewlett Packard Model 5890 gas chromatograph equipped with a thermal conductivity detector (TCD).

Data Release Authorization:

Kathleen Aguilera
Analytical Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

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Volatile Organic Compound Analysis

The samples were also analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The method was modified for using Tedlar Bags. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/ cryogenic concentration. The instrumentation used for sample analysis was comprised of a Finnigan Model 4500 GC/MS/DS interfaced to an Entech 2000 automated whole air inlet system/cryogenic concentrator. A thick film (5 micron) crossbonded 100% Dimethylpolysiloxane megabore column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are included on the attached data sheets.

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RESULTS OF METHANE &

TOTAL GASEOUS NON-METHANE ORGANICS (TGNMO) ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #5945

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 12/22/93
Date Analyzed: 12/22/93

Client Sample ID	PAI Sample ID	Concentration in ppm, v/v	
		Methane	Total Non-Methane Organics (as Methane)
P-10 (12/21/93)	9305218	N/A	1300
P-40 (12/21/93)	9305219	N/A	2400
Q-10 (12/21/93)	9305220	N/A	1400
Q-40 (12/21/93)	9305221	N/A	2100
ISS-1 (12/21/93)	9305222	2.6	7.5
ISS-2 (12/21/93)	9305223	2.3	4.7
ISS-3 (12/21/93)	9305224	2.3	6.6
ISS-4 (12/21/93)	9305225	2.1	5.3
ISS-5 (12/21/93)	9305226	3.4	4.3
Plant Inlet (12/21/93)	9305227	N/A	7300
Plant Inlet (12/21/93)	Lab Duplicate	N/A	7600
N/A (12/22/93)	Method Blank	ND < 0.50	ND < 1.0

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #5945

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 12/22/93
Date Analyzed: 12/22/93

Client Sample ID	PAI Sample ID	Methane (%, v/v) Result	Methane (%, v/v) Detection Limit
P-10 (12/21/93)	9305218	43.6	0.200
P-40 (12/21/93)	9305219	42.7	0.200
Q-10 (12/21/93)	9305220	41.6	0.200
Q-40 (12/21/93)	9305221	33.3	0.200
N/A (12/22/93)	Method Blank	ND	0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #5945

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/22/93

Client Sample ID	PAI Sample ID	Hydrogen (%, v/v)	Oxygen (%, v/v)	Nitrogen (%, v/v)
Plant Inlet	9305227	ND < 0.200	0.218	18.0
Plant Inlet	Lab Duplicate	ND < 0.200	0.326	18.2
N/A (12/22/93)	Method Blank	ND < 0.0200	ND < 0.0300	ND < 0.100

ND = Not Detected - Less Than Indicated Detection Limit

Client Sample ID	PAI Sample ID	Carbon Monoxide (%, v/v)	Methane (%, v/v)	Carbon Dioxide (%, v/v)
Plant Inlet	9305227	ND < 0.200	42.6	39.2
Plant Inlet	Lab Duplicate	ND < 0.200	42.2	39.3
N/A (12/22/93)	Method Blank	ND < 0.0200	ND < 0.0200	ND < 0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 12/22/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 12/23/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-10 (12/21/93)

PAI Sample ID: 9305218

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	250	ND	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	200 TR	250	51 TR	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	3100	250	980	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	ND	250	ND	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	8100	250	1800	55
1330-20-7	Total Xylenes	2200	250	520	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	3200	250	530	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-10 (12/21/93)

PAI Sample ID: 9305218 (Laboratory Duplicate)

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	250	ND	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	200 TR	250	51 TR	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	3200	250	990	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	ND	250	ND	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	8300	250	1800	55
1330-20-7	Total Xylenes	2200	250	520	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	3200	250	540	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

CONFIDENTIAL

Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-40 (12/21/93)

PAI Sample ID: 9305219

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	9400	250	3700	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	920	250	290	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	340	250	65	47
108-88-3	Toluene	310	250	82	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	36000	250	7900	55
1330-20-7	Total Xylenes	290	250	66	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	4100	250	680	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

10954 Osborne Street

CONFIDENTIAL

Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-10 (12/21/93)

PAI Sample ID: 9305220

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	4800	250	1900	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	3500	250	1100	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	700	250	190	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	4900	250	1100	55
1330-20-7	Total Xylenes	5200	250	1200	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	9200	250	1500	42
95-50-1	1,2-Dichlorobenzene	950	250	160	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

20954 Osborne Street [illegible]

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-40 (12/21/93)

PAI Sample ID: 9305221

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	3100	250	1200	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	680	250	210	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	490	250	92	47
108-88-3	Toluene	280	250	75	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	6100	250	1300	55
1330-20-7	Total Xylenes	300	250	69	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	5100	250	850	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-1 (12/21/93)

PAI Sample ID: 9305222

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/22/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	7.5	5.0	2.2	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	17	5.0	3.2	0.93
71-43-2	Benzene	73	5.0	23	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	120	5.0	31	1.3
12-18-4	Tetrachloroethene	13	5.0	1.9	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	120	5.0	28	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-2 (12/21/93)

PAI Sample ID: 9305223

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/22/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	7.4	5.0	2.1	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	17	5.0	3.1	0.93
71-43-2	Benzene	64	5.0	20	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	130	5.0	33	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	140	5.0	33	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-3 (12/21/93)

PAI Sample ID: 9305224

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/22/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	7.3	5.0	2.1	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	17	5.0	3.1	0.93
71-43-2	Benzene	92	5.0	29	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	2.8 TR	5.0	0.54 TR	0.94
108-88-3	Toluene	150	5.0	40	1.3
12-18-4	Tetrachloroethene	23	5.0	3.4	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	170	5.0	39	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
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PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-4 (12/21/93)

PAI Sample ID: 9305225

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	8.0	5.0	2.3	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	16	5.0	3.0	0.93
71-43-2	Benzene	52	5.0	16	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	7.5	5.0	1.4	0.94
108-88-3	Toluene	120	5.0	32	1.3
12-18-4	Tetrachloroethene	38	5.0	5.6	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	150	5.0	35	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-5 (12/21/93)

PAI Sample ID: 9305226

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	11	5.0	3.1	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	15	5.0	2.8	0.93
71-43-2	Benzene	81	5.0	25	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	160	5.0	43	1.3
12-18-4	Tetrachloroethene	13	5.0	2.0	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	120	5.0	28	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Plant Inlet (12/21/93)

PAI Sample ID: 9305227

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 1.6 ml

CAS #	COMPOUND	RESULT (MG/M^3)	DETECTION LIMIT (MG/M^3)	RESULT (PPM)	DETECTION LIMIT (PPM)
75-01-4	Vinyl Chloride	ND	3.1	ND	1.2
75-35-4	1,1-Dichloroethene	ND	3.1	ND	0.79
75-09-2	Methylene Chloride	9.8	3.1	2.9	0.90
75-34-3	1,1-Dichloroethane	ND	3.1	ND	0.77
67-66-3	Chloroform	ND	3.1	ND	0.64
107-06-2	1,2-Dichloroethane	ND	3.1	ND	0.77
71-55-6	1,1,1-Trichloroethane	ND	3.1	ND	0.57
71-43-2	Benzene	6.5	3.1	2.0	0.97
56-23-5	Carbon Tetrachloride	ND	3.1	ND	0.50
79-01-6	Trichloroethene	ND	3.1	ND	0.58
108-88-3	Toluene	120	3.1	31	0.82
12-18-4	Tetrachloroethene	1.7 TR	3.1	0.25 TR	0.46
108-90-7	Chlorobenzene	6.4	3.1	1.4	0.67
1330-20-7	Total Xylenes	140	3.1	32	0.72
541-34-5	1,3-Dichlorobenzene	ND	3.1	ND	0.52
106-73-1	1,4-Dichlorobenzene	3.9	3.1	0.66	0.52
95-50-1	1,2-Dichlorobenzene	ND	3.1	ND	0.52
100-44-7	Benzyl Chloride	ND	3.1	ND	0.60

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

20954 Osborne Street

Performance Analytical Inc.
Environmental Testing and Consulting

20954 Osborne Street
Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	PAI Project No.
SEPICH ASSOCIATES	818-707-3036	5945
Project Location	**Client Project No.**	
PENROSE LANDFILL	J-152-6	
Contact	**Samplers (Signature)**	**P.O. No.**
JOHN SEPICH	[signature]	

ANALYSES

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	AQMD CORE TOXICS (NO H_2S)	METHANE + TOTAL NON-METHANE HC	FIXED GASES AND O_2				Expected Turnaround Time	Remarks
P-10	12-21-93	09:00	9305218	AIR	X	X						
P-40	12-21-93	09:00	9305219		X	X						
Q-10		09:00	9305220		X	X						
Q-40		09:00	9305221		X	X						
ISS-1		15:00	9305222		X	X						
ISS-2		15:00	9305223		X	X						
ISS-3		15:00	9305224		X	X						
ISS-4		15:00	9305225		X	X						
ISS-5		15:00	9305226		X	X						
PLANT INLET		15:00	9305227		X	X	X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12-22-93	07:25	[signature]	12/22/93	07:22
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Disposal Method					
Disposed by: (Signature)	Date	Time			

White Copy : Accompanies Samples

Yellow Copy : Sampler

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Sepich Associates Inc.

METHANE SPECIALISTS

3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362

TEL (818) 707-3036
(805) 373-9321

FAX (818) 707-3012
(805) 373-8987

April 15, 1994

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for First Quarter, 1994
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the second quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period January - March, 1994. Monitoring and sampling for this report was performed on January 20, 28, and 31, February 11, 25, and 28, March 11, 24, and 28, and April 15, 1994.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements pending results from initial monitoring. The Rule also requires plant inlet gas analyses on a quarterly basis and simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

April 15, 1994

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branh

Landfill Monitoring Report for First Quarter, 1994
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the second quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period January - March, 1994. Monitoring and sampling for this report was performed on January 20, 28, and 31, February 11, 25, and 28, March 11, 24, and 28, and April 15, 1994.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements pending results from initial monitoring. The Rule also requires plant inlet gas analyses on a quarterly basis and simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Perimeter probe monitoring (see Probe Location Map in Exhibit A) requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit B, Table I for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit A includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection a of 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of informational are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, January through March 1994, field monitoring was conducted on January 20, 28, and 31, February 11, 25, and 28, and March 11, 24, and 28. Perimeter probe and power plant inlet samples were collected for laboratory analysis on January 28, February 28, and March 24, 1994. Integrated surface samples were collected on January 28, February 28, and March 28, 1994. In March attempts to conduct instantaneous surface monitoring were aborted on March 22, 23, and 24, due to winds in excess of 5 miles per hour (mph). Rain at the site on the afternoon of March 24, 1994 delayed further attempts until March 28.

B.1 Perimeter Probe Monitoring and Sampling

Perimeter probe monitoring on January 20, 1994 was conducted by Sepich Associates personnel using a Bacharach HPK. Probe monitoring and required follow-up monitoring was conducted by Smith-Emery personnel on February 11 and 25, 1994 and March 11 and 24, 1994. Probe sampling was conducted by Sepich Associates personnel on January 31, February 28, and March 28, 1994.

Tedlar bag samples were collected using the direct pump sampling procedure. The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Performance Analytical Inc. (PAI), a certified analytical laboratory in Canoga Park, California, within 24 hours of sampling.

Perimeter probe sampling was conducted at Probes P, Q, U and V in January, at Probes P, Q, U and V in February, and at Probes P and Q in March 1994. A map of probe locations can be found in Exhibit A and perimeter probe monitoring data sheets are included in Exhibit C.

B.2 Integrated Surface Sampling

Integrated surface sampling was conducted on January 28, February 28, and March 28, 1994, by focusing sampling efforts in zones where previously conducted instantaneous surface monitoring had found the highest TOC concentrations. During instantaneous surface monitoring, no areas had TOC greater than 500 ppmv in January and March. In January the same two areas (Areas #1 and # 3) sampled in December 1993 were sampled for integrated samples.

In February two areas had high readings. One area of high readings, along the west perimeter of the property, was directly downwind from a boring that was being drilled at the time. The other area of high readings was related to a settlement crack along the east perimeter of the property. The area of high readings near the crack was scraped and covered with clean soil before the integrated surface sample was collected on February 28, 1994. The two integrated surface samples were collected from Areas #6 and #1.

In March, because no anomalous readings were observed during the instantaneous surface monitoring, the same two areas (Areas #6 and #1) were sampled for integrated samples.

The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute. Maps showing the areas of integrated surface sampling are included in Exhibit A.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring was conducted on January 20, February 25, and March 28, 1994. In January and March no areas had TOC greater than 500 ppmv.

In February two areas had high readings. One area of high readings, along the west perimeter of the property, was directly downwind from a boring that was being drilled. Additional monitoring with the OVA indicated the source was the boring and cuttings pile.

The other area (Area # 6) of high readings was related to a settlement crack along the east perimeter of the property. Readings as high as 14% by volume were detected from within the crack with the Bacharach HPK. The area of high readings was scraped and covered with clean soil shortly after the anomalous readings were detected. The effectiveness of the mitigation measures was monitored with the OVA.

Follow-up monitoring of Area # 6 was performed on March 14, 1994. Only ND readings were detected during the follow-up monitoring.

Instantaneous surface monitoring Path B was traversed in January and February and Path A was traversed in March. Maps showing the traverse paths are included in Exhibit A.

B.4 Plant Inlet Sampling

10-liter bag samples were collected from the Pacific Energy electrical generation plant input pipeline on January 31, February 28, and March 24, 1994. Inlet gas was monitored with recently calibrated Bacharach HPK before the samples were collected.

B.5 Simultaneous Inlet/Exhaust Sampling

No simultaneous inlet/exhaust samples were collected. The gas collection system and the electrical power (disposal system) plant operated by Pacific Energy is operating under an SCAQMD permit to operate, an SCAQMD permit for the collection system, and a power plant permit. These permits are managed by the SCAQMD Landfill Group. Information regarding inlet and exhaust analytical data was not made available by Pacific Energy to Los Angeles By-Products. SCAQMD files regarding those permits are hereby referred to for all information regarding plant inlet/exhaust sampling data.

B.6 Reporting Requirements

This is the second in a series of quarterly reports for Penrose Landfill. Los Angeles By-Products hereby solicts any SCAQMD comments regarding procedures and reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms when applicable. Pertinent field data and inspection notes are included with this report in Exhibit C. Perimeter probe monitoring had been performed bi-monthly by Smith-Emery Company. Starting in February, their data was used for the monthly probe monitoring and follow-up probe monitoring. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Performance Analytical Inc. Perimeter probe field monitoring data and analytical results are summarized in Tables I through III for your convenience. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit D.

C.1 Perimeter Probe Monitoring and Laboratory Results

January 28, 1994 monitoring results were highest from Probes P (60% @ 10'), Q (49% @ 10'), U (49% @ 40' and 42% @ 37'), and V (32% @ 68'). Analytical results for methane were 37% by volume, 41% by volume, 47% by volume, 53% by volume, and 55% by volume from Probes P, Q, U, U, and V, respectively.

Table I - January 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON JANUARY 28, 1994

Probe Number	Screen Depth (feet)	Field Values 1/28/94 (% Vol)	Field Values 1/31/94 (% Vol)	Lab Results 1/31/94 (% Vol)	Field Values 2/11/94 (% Vol)
# 7.5	5	8	NC	NC	ND
# 17	1.3	2.4	NC	NC	ND
P	10	60	29	37.2	46
P	40	27	NC	NC	65
P	80	4.5	NC	NC	33
Q	10	49	16	41.1	34
R	10	2.4	NC	NC	2.5
T	40	1.5	NC	NC	2
U	37	49	43	46.5	45
U	68	42	25	52.5	68
V	40	32	45	54.8	64

Note: Laboratory samples were collected 1/31/94. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected.

ND None detected.

February 25, 1994 monitoring results were highest from Probes Q (70% @ 10' and 60% @ 40'), P (68% @ 10'), V (62% @ 40'), and U (49% @ 37'). Analytical results from the February 28, 1994 samples were 29% by volume, 34% by volume, 53% by volume, 49% by volume, and 46% by volume from Probes Q, Q, P, V, and U, respectively.

Table II - February 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON FEBRUARY 25, 1994

Probe Number	Screen Depth (feet)	Field Values 2/25/94 (% Vol)	Field Values 2/28/94 (% Vol)	Lab Results 2/28/94 (% Vol)	Field Values 3/11/94 (% Vol)
P	10	68	35	53.2	70
P	40	34	NC	NC	58
P	80	45	NC	NC	4
P	120	11	NC	NC	12
Q	10	70	18	28.8	70
Q	40	60	16	34.3	10
Q	75	45	NC	NC	85
T-1	72	3	NC	NC	3
U	37	49	32	48.6	ND
U	68	45	NC	NC	ND
V	10	25	NC	NC	ND
V	40	62	20	46.4	17
V	73	33	NC	NC	18

Note: Laboratory samples were collected 2/28/94. Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected.

ND None detected.

The March 24, 1994 monitoring results were highest from Probes P and Q.

Table III - March 1994
SUMMARY OF PERIMETER PROBE MONITORING RESULTS
GREATER THAN 1% BY VOLUME TOC
ON MARCH 24, 1994

Probe Number	Screen Depth (feet)	Field Values 3/24/94 (% Vol)	Field Values 3/24/94 (% Vol)	Lab Results 3/24/94 (% Vol)	Field Values 4/15/94 (% Vol)
P	10	72	65	56.4	62
P	40	50	52	46.6	54
P	80	33	27	28.8	14
P	120	10	NC	NC	ND
Q	10	58	48	48.4	46
Q	40	51	28	46.6	38
Q	75	10	NC	NC	6
S	10	2	NC	NC	ND
S	40	5	NC	NC	ND
S	80	3	NC	NC	ND
S	120	3	NC	NC	ND
T	10	2	NC	NC	2
T	40	4	NC	NC	2
T-1	72	5	NC	NC	5
U	68	20	NC	NC	5
V	40	45	NC	NC	ND
V	73	4	NC	NC	ND

Note: Laboratory results are volume percent of methane. Field values are volume percent TOC.

NC Readings or samples not collected. ND None detected.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane by SCAQMD Method 25.2 and by GC/TCD, for total NMHC by SCAQMD Method 25.2, and for VOC by EPA Method TO-40. The following table summarizes the analytical results for methane and NMHC for this quarter. VOC analytical results are included in Exhibit D.

Table IV - FIRST QUARTER 1994
SUMMARY OF INTEGRATED SURFACE SAMPLE
ANALYTICAL RESULTS

DATE and AREA	CH_4 (PPMV)	NMHC (PPMV)
1/28/94 AREA # 1	2.0	3.7
1/28/94 AREA # 3	2.0	3.4
2/28/94 AREA # 1	1.8	1.6
2/28/94 AREA # 6	2.3	2.4
3/28/94 AREA # 1	2.1	< 1.0
3/28/94 AREA # 6	2.0	< 1.0

Note: Laboratory samples were designated ISS # (Area number).
< Less than the detection limit given.

C.3 Instantaneous Surface Monitoring Results

As noted in section B.3, only the February 25, 1994 instantaneous surface monitoring found OVA readings above 500 ppmv. Mitigation measures were implemented at Area # 6 and integrated surface samples were collected (see Table IV).

Follow-up monitoring of Area # 6 on March 14, 1994 revealed no readings above ND.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

Analytical results were 40.8% methane on January 31, 41.6% methane on February 28, and 39% methane on March 24, 1994. Analytical results for fixed gases, NMHC, and core group toxic air contaminants are included in Exhibit D.

C.5 Simultaneous Inlet/Exhaust Sampling

The gas collection system and the electrical power (disposal system) plant operated by Pacific Energy is operating under an SCAQMD permit to operate, an SCAQMD permit for the collection system, and a power plant permit. These permits are managed by the SCAQMD Landfill Group. Information regarding analytical data is routinely submitted to SCAQMD by Pacific Energy. We hereby refer to SCAQMD files regarding that information.

C.6 Report Requirements

This report constitutes the 1994, First Quarter, Rule 1150.1 Compliance Plan report for Penrose Landfill.

As a first quarter report the required annual requirements 8.2 are included below.

A. Pacific Energy's power plant is the only facility operating on the property.

B. No wastes materials have been deposited in the landfill during this reporting period.

C. The total material deposited in Penrose Landfill to date is estimated at 14 million tons.

D. A contour map with the landfill boundary is included in Exhibit A. Trash extends throughout the site to within 10 feet of the property line, except along the south property line where trash is approximately 50 feet north of the property line and at the northeast and southwest corners of the site as shown.

E. The collection system and the electrical power (disposal system) plant is operated by Pacific Energy. Their records of the amount of landfill gas collected during the years 1988 through 1993 and projections are included in Exhibit E (amounts are in BTU).

F. Maps of the collection system and disposal (electric power plant) system are included in E. The annual disposal rates during the years 1988 through 1993 are included in E above.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the current monitoring and laboratory results, mitigation measures are being implement as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up monitoring is enacted as required by the compliance plan.

High methane readings in the probes have prompted Los Angeles By-Products Company and Pacific Energy to initiate a mitigation well program. Two of the eight proposed wells have been installed at locations approximately 80 feet east of Probe V and approximately 80 feet east of Probe U. Testing with the wells to manipulate methane at the probes is in progress and has been able to control methane at Probes U and V. Locations of the new wells are shown on the Gas Collection System Map in E. The remaining six proposed wells will be installed in the near future. An example of the effects of the new Well W-7 on the associated perimeter Probe V (Vee) are presented in Table V (five).

Table V - First Quarter - 1994
SUMMARY OF PERIMETER **PROBE # V** MONITORING RESULTS

Date	Time	Sample collector	% Vol. @ 10 Ft.	% Vol. @ 40 Ft.	% Vol. @ 73 Ft.
1/28/94	AM	MS	ND	32	ND
1/31	AM/PM	MS	NC	45	NC
1/31	AM/PM	MS - LAB	NC	54.8	NC
2/11	AM ?	S-E	ND	64	47
2/25	PM	S-E	25	62	33
2/25	**WELL W - 7 INSTALLED**				
2/28	AM	MS	NC	20	NC
2/28	AM	MS - LAB	NC	46.4	NC
3/11	AM?	S-E	ND	17	18
3/15	1330	PE	ND	ND	ND
3/16	1330	PE	ND	ND	ND
3/17	1300	PE	ND	ND	ND
3/24	AM	S-E	ND	5	4
3/25	1300	PE	ND	ND	ND
3/28	1330	PE	ND	ND	ND
3/31	1330	PE	ND	ND	ND
4/8	1330	PE	ND	ND	ND
4/11	1330	PE	ND	ND	ND
4/12	1330	PE	ND	ND	ND
4/15	AM	S-E	ND	ND	ND

Note: Collectors are Methane Specialists (MS), Smith-Emery (S-E), and Pacific Energy (PE).

ND None detected NC Readings or samples not collected.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
No. C 37509
JUN. 30 1996
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.602/atf

(1 copy submitted)

Distribution: Los Angeles By-Products Company

- Mr. Mike McAllister

Enclosures:

- EXHIBIT A: Penrose Landfill Maps - Probe Location Map, Integrated Surface Sampling Map and Traverse Maps
- EXHIBIT B: Core Group Toxic Air Contaminants
- EXHIBIT C: Field Data - First Quarter, 1994
- EXHIBIT D: Laboratory Analytical Results - First Quarter, 1994
- EXHIBIT E: Documentation for Annual Requirements

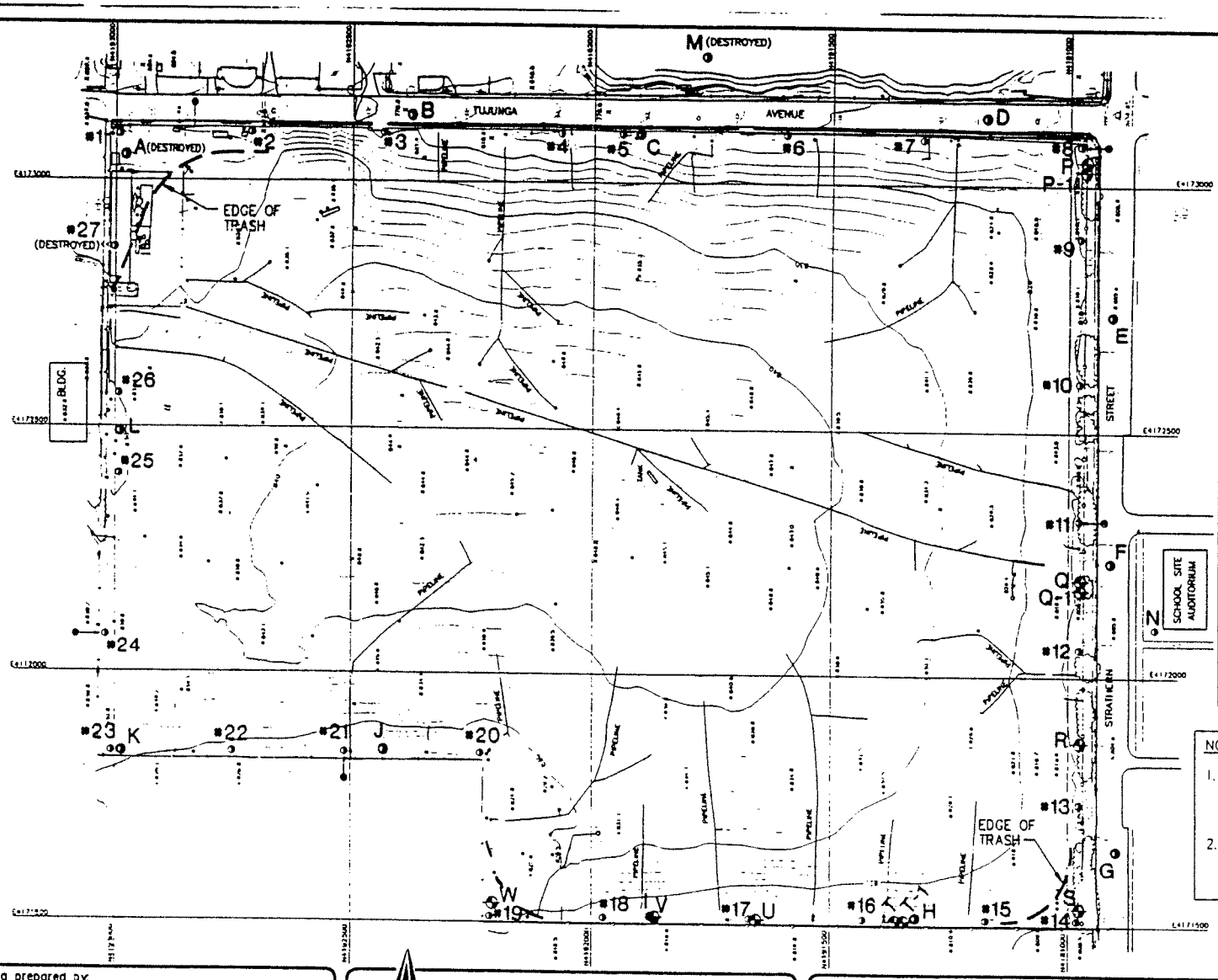
EXHIBIT A

Penrose Landfill Maps

Probe Location Map

Integrated Surface Sampling Map

Traverse Maps



AERIAL PHOTOGRAPHY DATED 1-24-92

LEGEND

- #10 EXIST. SHALLOW PROBE
- F EXIST. DEEP PROBE
- PROBE SAMPLING LOCATION
- WELL
- 10' CONTOUR
- 2' CONTOUR
- R NEW PROBES INSTALLED SEPT/OCT 1993

NOTES:

1. PROBES B THRU G ARE OUTSIDE WALL IN PARKWAY WITH IRRIGATION VAULTS, GREEN PLASTIC ROUND OR SQUARE.
2. PROBE N IS 8'± SOUTH OF SIDEWALK IN SCHOOL YARD, 8'± EAST OF MAIN ENTRY SIDEWALK.

Drawing prepared by:

SEPICH ASSOCIATES, Inc.
CIVIL ENGINEERS
SANITARY
ENVIRONMENTAL
WASTE AND METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
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Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
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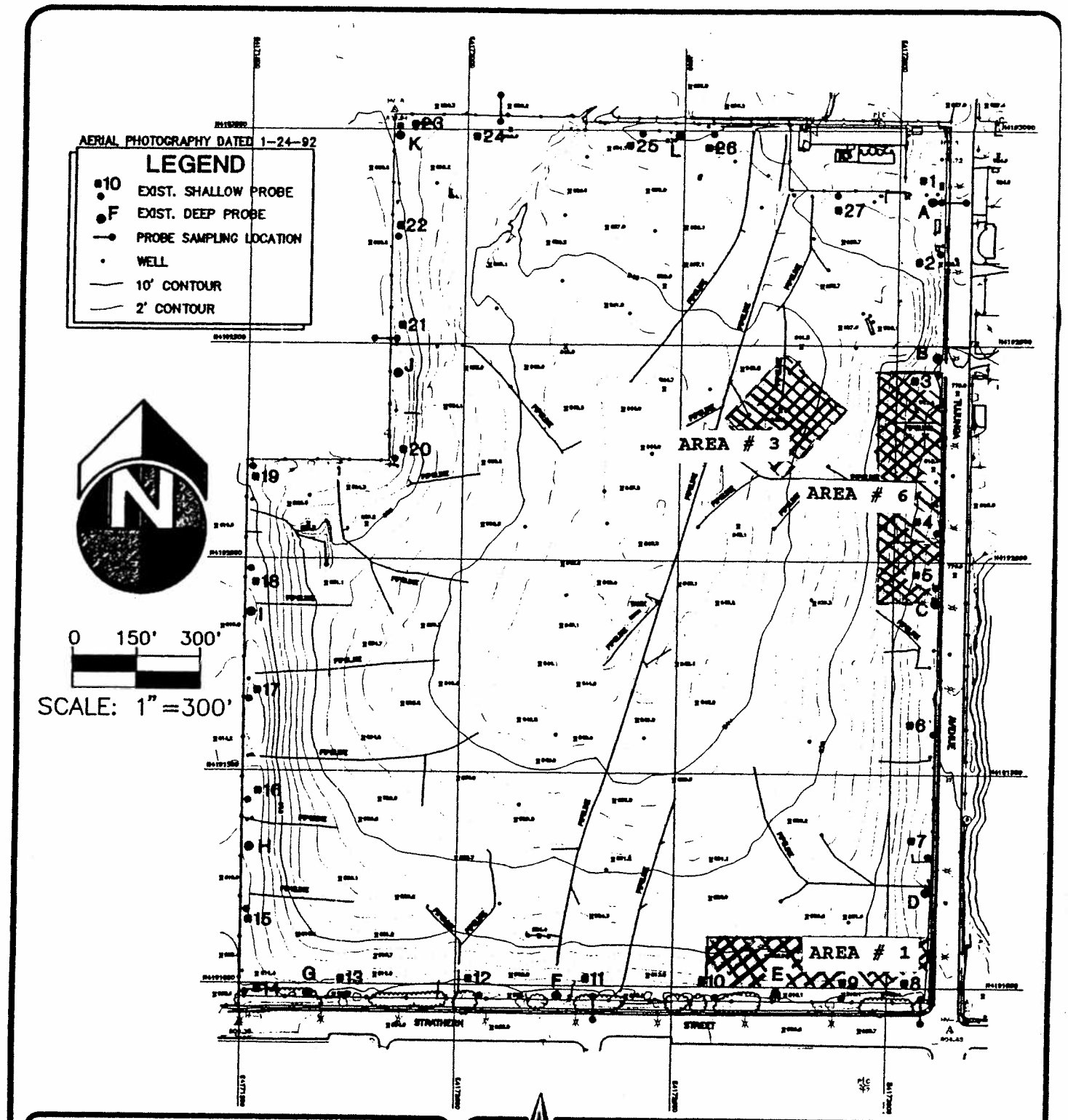
PENROSE PIT

PROBE LOCATIONS

CONFIDENTIAL

002638

CONFIDENTIAL



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PENROSE LANDFILL

FIRST QUARTER

INTEGRATED SURFACE SAMPLING

1994

002659

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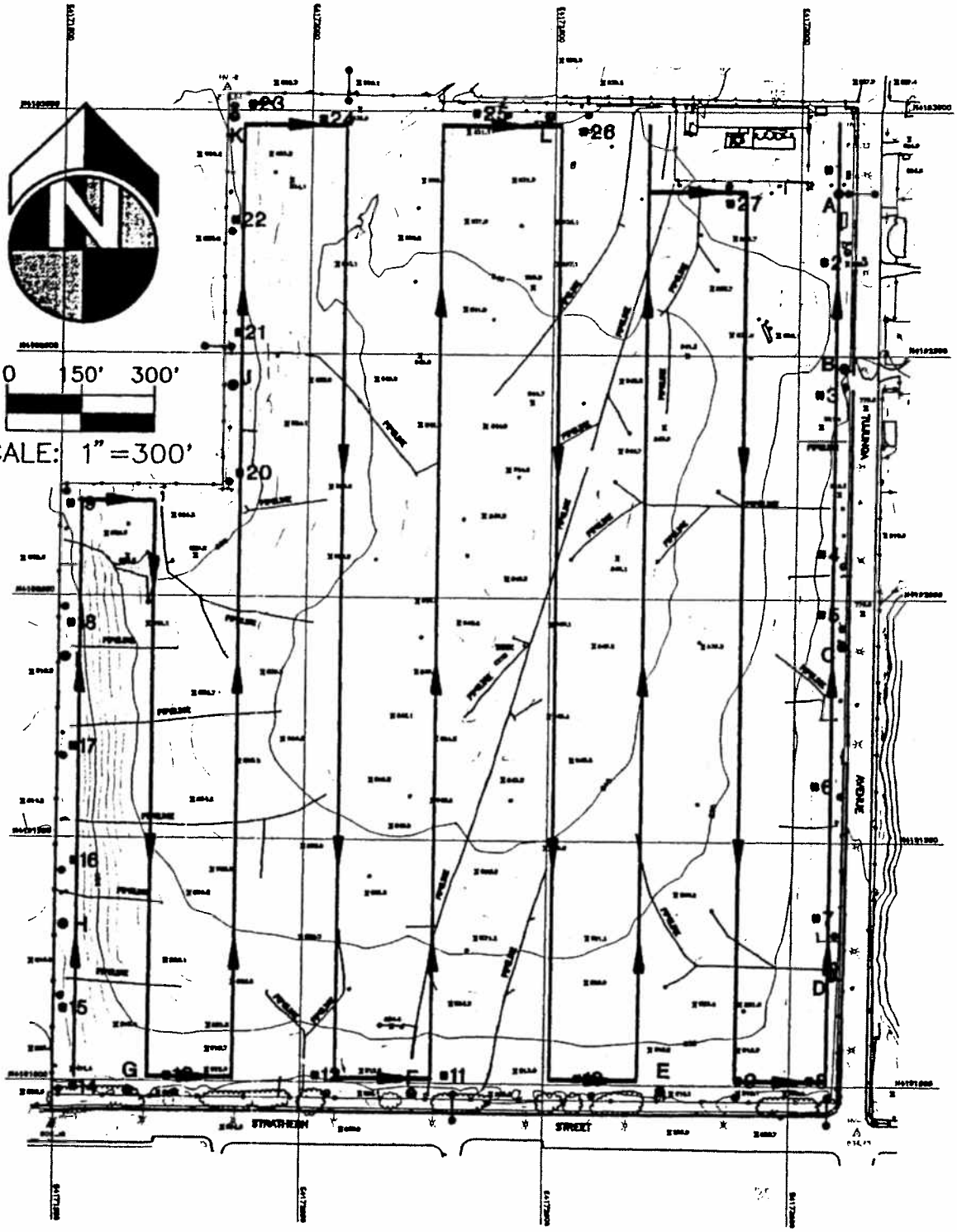
INSTANTANEOUS SURFACE MONITORING



PATH A

Drawing prepared by:
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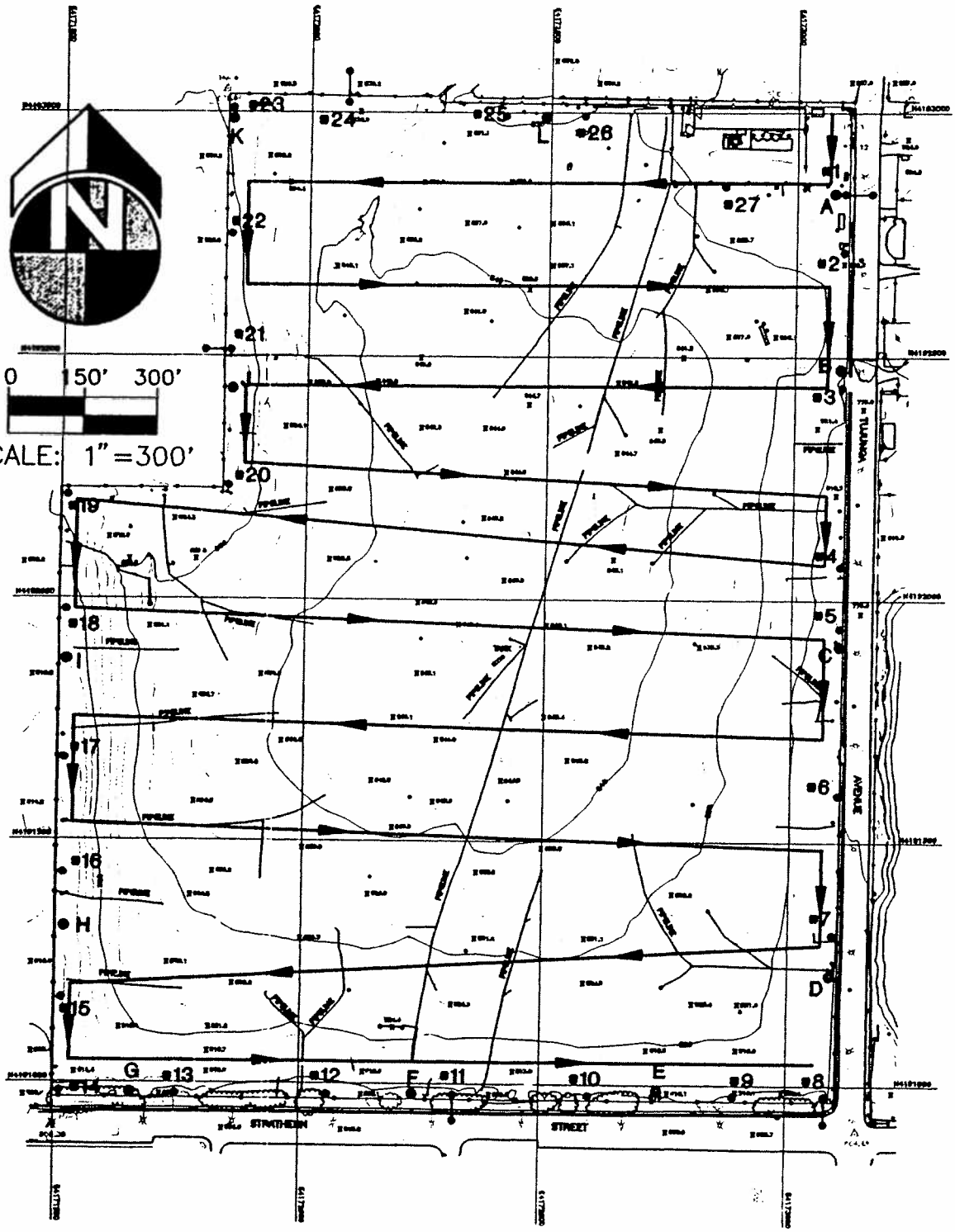
INSTANTANLOUS SURFACL MONITORING



PATH B

Drawing prepared by:
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EXHIBIT B

Core Group Toxic Air Contaminants

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TABLE I: TOXIC AIR CONTAMINANTS -- CORE GROUP

1. Acetonitrile CH_3CN
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1 Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2 Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1 Dichloroethene (Vinylidene Chloride) $CH_2:CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C:CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1 Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichloroethylene $CHCl:CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2:CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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Public Facilities Branch / SCAQMD April 15, 1994

EXHIBIT C

Field Data - First Quarter, 1994

002069

CONFIDENTIAL

7:00 - 11:30

#5

BERGH ASSOCIATES, Inc.
METHANE SPECIALISTS
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3034 (805) 373-9321
FAX: (818) 707-3012 (805) 373-9087

JOB NAME: L.A. BY-PRODUCTS PENROSE LAND FILL

JOB No. J152-6

DATE 1/20/94

METHANE SYSTEM INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain; <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F; still, breeze, wind; dry, moderate, humid

WORK AREA: INSTANTANEOUS SURFACE MONITORING

CONTRACTOR(S), PERSONS ON SITE

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
INSPECT VENT PIPING	O	O
INSPECT MEMBRANE	O	O
INSPECT ELECTRONIC SYSTEM	O	O
INSPECT MECHANICAL SYSTEM	O	O
INSPECT PROBE CONSTRUCTION	O	O
MONITOR PROBES	O	O
	O	O
	O	O
	O	O

REMARKS: • THERE WAS A 6.6 MAGNITUDE EARTHQUAKE CENTERED IN NORTHRIDGE, CA AT 4:31 AM, ON 1-17-94, FOLLOWED BY SEVERAL AFTER-SHOCKS, SOME OF WHICH HAVE EXCEEDED 5.0 MAGNITUDE. • MET WITH ALEX FRIGHT TO PICK UP WIND GAUGE AND E.S.M. RELATED DOCUMENTS. • REFILLED HYDROGEN TANK IN O.V.A. AND BERGH SHEET AT 08:15, FOLLOWING PATH-B. (O.V.A. SET AT 1X SCALE, ALARM SET AT 5. RESPONSE TIME ≤ 20 SECONDS.) • 11:00 - COMPLETED SHEET. NO GASES DETECTED >500 PPM. • BATTERY READS FULL CHARGE UPON COMPLETION OF THIS SHEET.

NOTE: O.V.A. BATTERY SWITCH KNOB IS MISSING

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION. (AT WHAT STAGE OF WORK ?)

INSPECTOR

PRINCIPAL

SHEET__OF__

002665

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 1/28/94

INSPECTION REPORT

CLIMATE: (bright) (clear) fog — cloudy overcast rain — <32° F (33°-55°) 56°-70° — 71°-85° 86°-100° >100° F — (still) breeze wind — dry (moderate) humid

LOCATION: Penrose Landfill - 8301 Tujunga Ave, Sun Valley, CA

PURPOSE: Monthly integrated & perimeter probe monitoring.

CONTRACTOR(S):

REMARKS: 0700 Started set up of Bacharach HPK. Switched out thermal filament. Catalytic Filament not available at A.F. Johnson.
0800-1040: Alex retrieved catalytic filament from office while Hugh Avery collected integrated samples from areas #1 & #3 of December 1993 areas. 1100-1415 Alex & Hugh collected perimeter probe samples NE corner to SE corner to SW corner to probe #W.
1430-1630 Hugh delivered integrated samples to PAI while Alex monitored to NW corner to NE corner then outside probes #D.
1630-1730: Alex & Hugh monitored #D-#H & #N and then monitored #K and measured depths on #B, #C & #J.

☑ REINSPECTION REQUIRED Follow-up monitoring/sampling of all probes w/ readings > 1% by Feb. 11, 94.

Alex T. Feucht
INSPECTOR

PRINCIPAL

SHEET__OF__

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Los Angeles By Products Co.
Incorporated 1975
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PENROSE LANDFILL

Date 1-28-94
Job # J152-6

GAS CONCENTRATIONS

INITIALS	HBA/ATF	HBA/ATF
TIME	11:00	11:00
INSTRUMENT	HPK	HPK
PARAMETER	CH4	O2
PROBE #	% V/V	% V/V
19" 1	ND	21
61" 2	ND	21
46" 3	ND	21
4" 4	ND	21
11" 5	ND	21
12" 6	ND	21
24" 7	ND	21
Ø 8	ND	21
24" 9	0.15	15
46" 10	ND	16
52" 11	ND	20
49" 12	ND	16
27" 13	ND	21
42" 14	ND	21
71" 15 10' South	ND	21
46" 16	ND	21
15" 17	2.4	11
9" 18	ND	20
49" 19	ND	21
4" 20	ND	21
44" 21	ND	21
34" 22	ND	21
35" 23	ND	21
57" 24	ND	21
18" 25	ND	21
35" 26	ND	21
27	DESTROYED	

REMARKS: ALL READINGS AT LEAST ONE MINUTE DURATION

PROBE #		CH4	O2 %
A		DESTROYED	
~21' B		ND	21
C	GREEN-21'	ND	21
	YELLOW-41'	ND	21
	ORANGE-61'	ND	21
	RED-81'	ND	21
14' D		ND	21
18" E		ND	21
21' F		ND	21
24' G		0.1	21
92" H		ND	21
I	GREEN-17'	ND	21
	YELLOW-37'	COMPLETED	
	ORANGE-67'		
	RED-77'		
26' J		ND	21
10' K		ND	21
L	GREEN-45'	ND	21
	YELLOW-65'	ND	21
	ORANGE-85'	ND	21
	RED-105'	ND	21
M		DESTROYED	
N	GREEN-22'	ND	21
	YELLOW-45'	ND	21
	ORANGE-68'	ND	21
	RED-90'	0.1	21
P	10'	60	1
	40'	27	12
	80'	4.5	17
P-1	120'	ND	21

PROBE #		CH4	O2
Q	10'	5.9	<1
	40'	0.8	15
	75'	0.6	16
Q-1	120'	ND	21
	158'	ND	21
R	10'	2.4	15
	40'	0.1	21
	80'	ND	21
	120'	ND	21
S	10'	0.1	17
	40'	0.3	16
	80'	0.2	19
	120'	ND	21
T	10'	ND	21
	40'	1.5	18
	73'	0.3	19
T-1	72'	0.4	19
U	10'	ND	19
	37'	4.9	4
	68'	4.2	3
V	10'	ND	21
	40'	3.2	11
	73'	ND	21
W	10'	0.1	17
	40'	0.2	17
	80'	ND	19
	120'	0.5	16
	158'	ND	21
7.5	60"	8	12
11.5	66"	ND	21

Form prepared by: SERICH ASSOCIATES, Inc. METHANE SPECIALISTS
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7:00 - 6 PM 11:0

REFICH ASSOCIATES, Inc.
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JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J1526

DATE 1/28/94

METHANE SYSTEM INSPECTION REPORT

CLIMATE: bright / clear / fog — cloudy / overcast / rain — <32° F / 33°-55° / 56°-70° — 71°-85° / 86°-100° / >100° F — still / breeze / wind — dry / moderate / humid

WORK AREA: INTEGRATED SURFACE SAMPLING / MONITOR PROBES + SAMPLE

CONTRACTOR(S), PERSONS ON SITE: ALEX PEUCHT

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS: * TOOK 10 LITRE TEDLAR BAG SAMPLES, ONE EACH AT AREAS #1 AND #3 AS SHOWN ON ATTACHED MAP. WIND < 5 MPH DURING SAMPLING PERIOD. BAGS PROTECTED FROM U.V. BY CONTAINING THEM IN A BLACK PLASTIC BAG. * 11:00 - CALIBRATED HPK AT 2.5% BEGAN MONITORING PROBES.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?)

INSPECTOR

PRINCIPAL

SHEET__OF__

WORK AREA: RE-MONITOR NORTH PROBES

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JOB NAME: PENROSE

JOB No. J152-6
DATE 1/31/94

INSPECTION REPORT

CLIMATE: (bright) (clear) fog | cloudy overcast rain | <32° F (33°-55°) 56°-70° | 71°-85° 86°-100° >100° F | still (breeze) wind | dry (moderate) humid

LOCATION: Penrose Landfill - 8301 Tujunga Ave, Sun Valley, CA

PURPOSE: Collect perimeter probe samples.

CONTRACTOR(S):

REMARKS: 0630: Alex and Hugh Avery met at Brand Blvd, Glendale. Alex got HPK, hand pump and Tedlar bags from Hugh.
0700: Transit and Alex picked up black garbage bags for storing samples.
0730 - 1015: Collected, monitored, purged gas probes P@10', Q@10', U@37' and 68' and V@40'.
1015: Met with Tony Robenson and monitored and collected Tedlar bag sample from Plant Inlet.
1035 - 1120: Delivered samples to PAI
1120 - 1300: Picked up ice, gas during transit to MCA for sampling at Stage 27.

Based on Dwyer Wind Meter. Wind occasionally gusted to 5 mph but generally was below 3 mph during sampling period.

☑ REINSPECTION REQUIRED Follow-up sampling of all probes with HKP reading > 1% by Feb. 11, 1994

Albert T. Sendt
INSPECTOR

PRINCIPAL

SHEET__OF__

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Incorporated 1925
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PENROSE LANDFILL

Date 1-31-94
Job # J152-6

GAS CONCENTRATIONS

INITIALS	CTF	
TIME	0750	
INSTRUMENT	HPK	
PARAMETER	CH_4	O_2

REMARKS:

PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

PROBE #		CH_4	O_2
A			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'	29%	4%
	40'		
	80'		
P-1	120'		

PROBE #		CH_4	O_2
Q	10'	16	13
	40'		
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'	43	7
	68'	25	13
V	10'		
	40'	45	4
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
	Plant Inlet	40	4

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Penrose Methane Monitoring

Date 02/11/94 Tech. M. Zanetti

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol	
1	–	0		S-80'	–	0	
2	–	0		S-120'	–	0	
3	–	0		14	–	0	
4	–	0		15	–	0	
5	–	0		H	–	0	
6	–	0		T-10'	–	2	
7	–	0		T-40'	–	4	
8	–	0		T-80'	–	0	
P-10'	–	46		T1-72'	–	5	
P-40'	–	65		16	–	0	
P-80'	–	33		U-10'	–	0	
P-1 120'	–	12		U-37'	–	45	
9	–	0		U-68'	–	62	
10	–	0		17	–	0	
11	–	0		V-10'	–	0	
Q-10'	–	34		V-40'	–	64	
Q-40'	–	72		V-80'	–	47	
Q-80'	005	<1.		W-10'	–	0	
Q1-120'	–	0		W-40'	–	0	
Q1-160'	–	0		W-80'	–	0	
12	–	0		W-120'	–	0	
R-10'	–	2.5		W-153'	–	0	
R-40	–	0		20	–	0	
R-80	–	0		5	–	0	
R-120	–	0		21	–	0	
13	–	0		22	–	0	
S-10	–	2		23	–	0	
S-40	–	2.5		24	–	0	

PACIFIC ENERGY DATA SHEET

CONFIDENTIA

Penrose Methane Monitoring

Date 02/11/94 Tech N. Zamzam

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol	
K	–	0					
25	–	0					
26	–	0					
B	–	0					
C	–	0					
D	–	0					
E	–	0					
F	–	0					
G	–	0					

PACIFIC ENERGY DATA SHEET

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JOB NAME: PENROSE LANDFILL

JOB No. J152-6
DATE 2/25/94

INSPECTION REPORT

CLIMATE: (bright) (clear) fog — cloudy overcast rain — AM <32° F (33°-55°) (56°-70°) — PM (71°-85°) 86°-100° >100° F — (still) AM (breeze) PM wind — dry (moderate) humid

LOCATION: 8301 Tujunga, Sun Valley, CA

PURPOSE: Probe Monitoring, Instantaneous Landfill Surface Monitoring, Surface Maintenance

CONTRACTOR(S): Instantaneous Monitoring with Bob McAllister of LA By-Products, Perimeter probe monitoring with Marcos Zanetti of Smith-Emery.

REMARKS: Calibrated Bacharach HPK to 99% and 2.5% CH_4 before departing for job site.
0635-0815: "Pre-warmed" HPK, critiqued Bob McAllister, started probe monitoring #1-#7 (all ND); at #7 HPK would not voltage adjust, returned to car to change to conventional batteries - wiring shorted on two attempts to re-assemble instrument on third attempt no short (smoke) but O_2 meter wouldn't adjust (combustible meter worked).
0815-1230: Decision to do instantaneous monitoring - could not calibrate Foxboro 128 FID Smith & Denison Inc. (1-800-660 0577) service rep said instrument should be sent in for internal repairs - Ted Phillips found & repaired problem - calibration adjust knob had been turned grossly off-scale. - Called Smith-Emery (213-749-3411) - Rick Young helped arrange for Marcos Zanetti to do perimeter probe; but he

☐ REINSPECTION REQUIRED Probe Sampling 2/28, Integrated Sampling 2/28, Plant Inlet Sampling 2/28. Follow-up monitoring within 2 weeks.

INSPECTOR

PRINCIPAL

SHEET 1 OF __

002673

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JOB NAME: PENROSE

JOB No. J152-6
DATE 2/25/94

REMARKS CONTINUED: couldn't arrive until ~1430 hr. + arranged to provide access. — Bob and I ran PATH B (see map). Hot spots: 1) down wind from drilling borehole: readings to 10 ppm near probe #17 (approximately 100 ft down wind from drilling rig (18" bucket rig)) 1000+ emitting from borehole (location: 80-85' East of PL at Probe U). 2) slump cracks north of probe #4: four hole (3"-6" long) along crack-lime emitted from 30-1000+ ppm (measured ~1" below grade). HPK later measured 14% from South hole and 8% from north hole, but the escape points were small and HPK readings beyond a foot from the holes were ND. Wind gusts had been 5 mph or less during the instantaneous monitoring.
— Called Mike Tuddy at PAI (818 704 1139). He would like to analyze integrated, and, if possible, plant inlet. — Breeze was now gusting >5 mph, aborted plans to do integrated sampling.
— 1230-1530: Bob repaired slump crack area by scraping and covering with 3 bucket loads of clean soil. Monitoring with OVA 128 indicated cracks were sealed, but fluffed soil gave FID readings for short period. Marty would scrape and drag and recover area tomorrow.
— Called Smith-Emery. Marcos had vehicle broke down — would arrive late.
— 1530-1615: Waited for Smith-Emery.
— 1615-1730: S-E ETA 1615. Gave Marcos probe #1-7 readings. Offered and monitored Probes B-G and N while Marcos monitored probes #8-26 and P-W. High readings at probes P, Q, U & V.

Alex T. Feeley
INSPECTOR

PRINCIPAL

SHEET 2 OF __

002674

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PENROSE LANDFILL

Date 2-25-92

Job #J152-6

GAS CONCENTRATIONS

INITIALS	ATP	
TIME	0700-0800 & 1615-1730	
INSTRUMENT	HPK & H	
PARAMETER	CH_4	

REMARKS: Probes 1-7 & B-G & N measured with HPK by Sepich Associates. Probes 8-26 & P-W measured with Bacharach H by Smith-Emery. SA originals given to S-E.

PROBE #		
1	ND	HPK
2	ND	↓
3	ND	↓
4	ND	↓
5	ND	↓
6	ND	↓
7	ND	↓
8	ND	H
9	ND	↓
10	ND	↓
11	ND	↓
12	ND	↓
13	ND	↓
14	ND	↓
15	ND	↓
16	ND	↓
17	ND	↓
18	ND	↓
19	ND	↓
20	ND	↓
21	ND	↓
22	ND	↓
23	ND	↓
24	ND	↓
25	ND	↓
26	ND	↓
27	destroyed	

PROBE #			
A		destroyed	
B		ND	HPK
C	GREEN-21'	ND	↓
	YELLOW-41'	ND	↓
	ORANGE-61'	ND	↓
	RED-81'	ND	↓
D		ND	↓
E		ND	↓
F		ND	↓
G		0.05	↓
H		ND	H
I	GREEN-17'	ND	↓
	YELLOW-37'	ND	↓
	ORANGE-57'	ND	↓
	RED-77'	ND	↓
J		ND	↓
K		ND	↓
L	GREEN-45'	ND	↓
	YELLOW-65'	ND	↓
	ORANGE-85'	ND	↓
	RED-105'	ND	↓
M		destroyed	
N	GREEN-22'	ND	HPK
	YELLOW-45'	ND	↓
	ORANGE-68'	ND	↓
	RED-90'	ND	↓
P	10'	68	H
	40'	34	↓
	80'	45	↓
P-1	120'	11	↓

PROBE #			
Q	10'	70	H
	40'	60	↓
	75'	45	↓
Q-1	120'	ND	↓
	158'	ND	↓
R	10'	ND	↓
	40'	ND	↓
	80'	ND	↓
	120'	ND	↓
S	10'	ND	↓
	40'	ND	↓
	80'	ND	↓
	120'	ND	↓
T	10'	ND	↓
	40'	ND	↓
	73'	~~H~~ ND	↓
T-1	72'	3	↓
U	10'	ND	↓
	37'	49	↓
	68'	45	↓
V	10'	25	↓
	40'	62	↓
	73'	33	↓
W	10'	ND	↓
	40'	ND	↓
	80'	ND	↓
	120'	ND	↓
	158'	ND	↓

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JOB NAME: PENROSE

JOB No. J152-6
DATE 2/28/94

INSPECTION REPORT

CLIMATE: (bright) (clear) fog | cloudy overcast rain | <32° F (33°-55) 56°-70° | 71°-85° 86°-100° >100° F | (still) breeze wind | (dry) moderate humid

LOCATION: 8301 Tujunga, Sun Valley

PURPOSE: Integrated, probe, & plant inlet sampling.

CONTRACTOR(S):

REMARKS: 0700: wind speed 0-3 mph from S.E.
0715-850: ran integrated sampling of 50,000 ft² areas near probe #4 (ISS#6) and probe #P (ISS#1).
0900: wind: 0-4 mph.
0900-1145: sampled probes P@10', Q@10', Q at 40', U@37' and V@40' + Plant Inlet
Delivered samples to PAI at 1245

NOTE: ISS#6 and ISS#1 were collected adjacent to Tujunga Ave. during very light southeast breeze. Auto/Truck exhaust and tar fumes could be smelt while collecting these samples.

☐ REINSPECTION REQUIRED

Alex T. [illegible] — INSPECTOR

[illegible] — PRINCIPAL

SHEET__OF__

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PENROSE LANDFILL

Date 2-28-94
Job # J152-6

GAS CONCENTRATIONS

INITIALS	CTR	
TIME	0900 - 1130hr	
INSTRUMENT	HPK	
PARAMETER	CH_4	O_2

REMARKS: Reading after purging and prior to sampling 0900-1130 hr. AM readings are normally lower than PM readings.

PROBE #			PROBE #		CH_4	O_2	PROBE #		CH_4	O_2
1			A		% vol	% vol	Q	10'	18	11
2			B					40'	16	11
3			C	GREEN-21'				75'		
4				YELLOW-41'			Q-1	120'		
5				ORANGE-61'				158'		
6				RED-81'			R	10'		
7			D					40'		
8			E					80'		
9			F					120'		
10			G				S	10'		
11			H					40'		
12			I	GREEN-17'				80'		
13				YELLOW-37'				120'		
14				ORANGE-57'			T	10'		
15				RED-77'				40'		
16			J					73'		
17			K				T-1	72'		
18			L	GREEN-45'			U	10'		
19				YELLOW-65'	New well had just been put on line for hours			37'	32	7
20				ORANGE-85'				68'		
21				RED-105'	New well had been on line over the week-end		V	10'		
22			M					40'	20	12
23			N	GREEN-22'				73'		
24				YELLOW-45'			W	10'		
25				ORANGE-68'				40'		
26				RED-90'				80'		
27			P	10'	35	1.5		120'		
				40'				158'		
				80'			Pump Inlet		37	1
			P-1	120'						

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Penrose Methane Monitoring

Date 03/11/94 Tech. M. Zaneski

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol.	
1		ND		S-80'		ND	
2		ND		S-120'		ND	
3		ND		14		ND	
4		ND		15		ND	
5		ND		16		ND	
6		ND		T-10'		ND	
7		ND		T-40		5	
8		ND		T-80'		ND	
P-10'		70		T1-72'		3	
P-40'		58		16		ND	
P-80'		4		U-10'		ND	
P1-120'		12		U-37'		ND	
9		ND		U-68'		ND	
10		ND		17		ND	
11		ND		V-10'		ND	
Q-10'		70		V-40'		17	
Q-40		10		V-80'		18	
Q-80'		85		W-10'		ND	
Q1-120		ND		W-40'		ND	
Q1-160'		2		W-80'		ND	
12		ND		W-120'		ND	
R-10'		ND		W-153'		ND	
40'		ND		20		ND	
80'		ND		J		ND	
120'		ND		21		ND	
13		ND		22		ND	
S-10'		ND		23		ND	
S-40'		ND		24		ND	

PACIFIC ENERGY DATA SHEET

CONFIDENTIAL

Penrose Methane Monitoring

Date 03/11/94 Tech N. Zanetti

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol	
25		ND					
K		ND					
26		ND					
		ND					
B		ND					
C		ND					
D		ND					
E		ND					
F		ND					
G		ND					
N		ND					
18		ND					
19		ND					

PACIFIC ENERGY DATA SHEET

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14 MARCH MONDAY

Sunny

7:00 Install Temp Fencing

7:30 Clean Front Area

8:00

8:30

9:00

9:30 Total 1,403

10:00 Trucks 85

Quarc 1,281

10:30 Non Quarc 122

Tons 1,754

11:00

Follow-up

11:30 QVA 9:15 - 9:45 Reads

Grid 1 Wind 1.8 Clear

12:00

Grid 2 Wind 3.8 Clear

12:30 9:15-9:30 Rain

1:00

1:30

2:00

2:30

3:00

3:30

4:00

4:30

5:00

5:30

6:00

6:30

Follow-up of 2/25/94 ISM

AREA #6: No Readings > ND

AREA #1: No readings > ND

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SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 3/24/94

INSPECTION REPORT

CLIMATE: bright / clear / fog — cloudy / overcast / rain — <32° F / 33°-55° / 56°-70° — 71°-85° / 86°-100° / >100° F — still / breeze / wind — dry / moderate / humid

LOCATION: PENROSE LAND FILL

PURPOSE: PERIMETER PROBE + P.E. INLET SAMPLING

CONTRACTOR(S): Alex Feudt/Sepich
Smith Emery / Marcos Zenetti

REMARKS: At 0630 wind gusts >10mph out of the south. Some drizzle. Met Marcos Zenetti of Smith Emery at 0705. Started at Probe P. SE readings: 72% @ 10', 50% at 40', 33% at 80' and 18% @ 120'.
0755: HPK @ 40' = 52%; collected bag sample
0810: HPK @ 10' = 65%; collected bag sample
found Marcos at parking - got readings to probe 23
0850: HPK @ 80' = 27%; collected bag sample.
0920: at Probe Q
HPK @ 40' = 28%, collected bag sample
0930 HPK @ 10' = 48%, collected bag sample
0945 at Power Plant
0950 41% CH_4 at inlet, collected bag sample.
returned extra Tedlar bag to Strathern
Delivered 6 bag samples to Performance Analytical at 1105

NOTE: used LABPC Tedlar bags.

☐ REINSPECTION REQUIRED

Colest T. Feudt
INSPECTOR

PRINCIPAL

SHEET__OF__

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Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 3-24-94

Job # J152-6

GAS CONCENTRATIONS

INITIALS	QTF	
TIME	0755	-1000
INSTRUMENT	HPK	
PARAMETER		

REMARKS: Wind gusts > 10 mph at 0630 — couldn't perform ISM or ISS due to wind restrictions.

PROBE #		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

PROBE #		CH4%	time
A			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'	65	0810
	40'	52	0755
	80'	27	0850
P-1	120'		

PROBE #		CH4	time
Q	10'	48	0930
	40'	28	0920
	75'		
Q-1	120'		
	158'		
R	10'		
	40'		
	80'		
	120'		
S	10'		
	40'		
	80'		
	120'		
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		
Plant Inlet		41	0950

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3036 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8987

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Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 3-24-94
Job #J152-6

GAS CONCENTRATIONS

INITIALS	CTF	
TIME	0710	
INSTRUMENT	H	
PARAMETER	CH4	

REMARKS: Smith-Emery Readings; Copied; Bacharach H used by S-E

PROBE #		
1	ND	
2	ND	
3	ND	
4	ND	
5	ND	
6	ND	
7	ND	
8	ND	
9	ND	
10	ND	
11	ND	
12	ND	
13	ND	
14	ND	
15	ND	
16	ND	
17	ND	
18	ND	
19	ND	
20	ND	
21	ND	
22	ND	
23	ND	
24		
25		
26		
27		

PROBE #		CH4	
A			
B			
C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
D			
E			
F			
G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M			
N	GREEN-22'		
	YELLOW-45'		
	ORANGE-68'		
	RED-90'		
P	10'	72	
	40'	50	
	80'	33	
P-1	120'	10	

PROBE #			
Q	10'	58	
	40'	51	
	75'	10	
Q-1	120'	ND	
	158'	ND	
R	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
S	10'	2	
	40'	5	
	80'	3	
	120'	3	
T	10'	2	
	40'	4	
	73'	ND	
T-1	72'	5	
U	10'	ND	
	37'	ND	
	68'	20	
V	10'	ND	
	40'	5	
	73'	4	
W	10'	ND	
	40'	ND	
	80'	ND	
	120'	ND	
	158'	ND	

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3036 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8987

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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: PENROSE

JOB No. J152-6

DATE 3/28/94

INSPECTION REPORT

CLIMATE: (bright) clear fog | (cloudy) overcast rain | <32° F 33°-55° 56°-70° | (71°-85°) 86°-100° >100° F | (still) breeze wind | (dry) (moderate) humid

LOCATION: PENROSE LANDFILL

PURPOSE: Integrated Surface Samples

CONTRACTOR(S): PAI, Canoga Park

REMARKS: Scott Van Gordon had called at ~1215 hrs. ~ he said he had gotten the landfill instantaneous monitoring late AM. There was no wind at 1215.

Arrived 1340 hr. Wind checked out at ND to occasional 3 mph breeze. Since Scott had not gotten any readings & repeated area #6 of February 94. Traversed 1350-1415 with flowmeter registering 350 cc/min.

Collected IS #1 (repeat of Feb. 94 traverse IS#1) from 1440 to 1500 hr with flowmeter registering 375 cc/min. Occasional breezes remained under 4 mph.

Delivered samples IS#1 & IS#6 to PAI at 1600 hr.

☐ REINSPECTION REQUIRED

INSPECTOR

PRINCIPAL

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28 MARCH MONDAY

INSTANTANEOUS SURFACE MONITORING 3/94

Foxboro 128 Abel TOOK

OVA'S 9:15 am approx 3 mph winds

Test completed 11:45 [illegible] Thing clear

PATH A (N-S) No readings > ND

Total yds - 1,911

Trucks - 83

Non Quake - 374

Quake - 1,037

Tons - 1,764

7:00 7:30 8:00 8:30 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30

1:00 1:30 2:00 2:30 3:00 3:30 4:00 4:30 5:00 5:30 6:00 6:30

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APR-15-'94 FRI 11:51 ID:SECO CHEM LAB TEL NO:213-745-6372 #498 P02

PENROSE METHANE MONITORING

DATE 04-15-94 TECH. H 2

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol.	
1		ND		S-80'		ND	
2		ND		S-120'		ND	
3		ND		14		ND	
4		ND		15		ND	
5		ND		H		ND	
6		ND		T-10'		2	
7		ND		T-40'		2	
8		ND		T-80'		3	
P-10'		62		T1-72'		5	
P-40'		54		16		ND	
P-80'		14		U-10'		ND	
P1-120'		ND		U-37'		ND	
9		ND		U-68'		5	
10		ND		17		ND	
11		ND		V-10'		ND	
Q-10'		46		V-40'		ND	
Q-40'		38		V-80'		ND	
Q-80'		6		W-10'		ND	
Q1-120'		ND		W-40'		ND	
Q1-160'		ND		W-80'		ND	
12		ND		W-120'		ND	
R-10'		ND		W-158'		ND	
R-40'		ND		20		ND	
R-80'		ND		J		ND	
R-120'		ND		21		ND	
13		ND		22		ND	
S-10'		ND		23		ND	
S-40'		ND		24		ND	

PACIFIC ENERGY DATA SHEET

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APR-15-'94 FRI 11:52 ID:SECO CHEM LAB TEL NO:213-745-6372 #498 P03

Penrose Methane Monitoring

Date 04/15/94 Tech. M2

Sample Point #	% LEL	% by Vol		Sample Point	% LEL	% by Vol.	
25		ND					
K		ND					
26		ND					
B		ND					
C		ND					
D		ND					
E		ND					
F		ND					
N		ND					
G		ND					

PACIFIC ENERGY DATA SHEET

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Public Facilities Branch / SCAQMD April 15, 1994

EXHIBIT D

Laboratory Analytical Results - First Quarter, 1994

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Performance Analytical Inc.
Environmental Testing and Consulting

LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	02/03/94
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	01/28/94
	Westlake Village, CA 91362	PAI Project No:	6032
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose		

Two (2) Tedlar Bag Samples labeled: "ISS-1" and "ISS-3"

The samples were received at the laboratory under chain of custody on January 28, 1994. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

SCAQMD Method 25.2 Analysis

The samples were analyzed for Methane and Total Gaseous Non-Methane Organics according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

Volatile Organic Compound Analysis

The samples were also analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The method was modified for using Tedlar Bags. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Finnigan Model 4500 GC/MS/DS interfaced to an Entech 2000 automated whole air inlet system/cryogenic concentrator. A thick film (5 micron) crossbonded 100% Dimethylpolysiloxane megabore column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are included on the attached data sheets.

Data Release Authorization:

Kathleen Aguilera

Kathleen Aguilera
Analytical Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

20954 Osborne Street, Canoga Park, CA 91304 • Phone 818 709-1139 • Fax 818 709-2915

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF METHANE &

TOTAL GASEOUS NON-METHANE ORGANICS (TGNMO) ANALYSIS

Client: Sepich Associates

Client Project ID: Penrose Landfill
PAI Project ID: #6032

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 01/28/94
Date Analyzed: 01/28/94

Client Sample ID	PAI Sample ID	Concentration in ppm, v/v	
		Methane	Total Non-Methane Organics (as Methane)
ISS-1 (01/28/94)	9400253	2.0	3.7
ISS-3 (01/28/94)	9400254	2.0	3.4
ISS-3 (01/28/94)	Lab Duplicate	2.0	3.7
N/A (01/28/94)	Method Blank	ND < 0.50	ND < 1.0

ND = Not Detected - Less Than Indicated Detection Limit

002690

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Performance Analytical Inc.
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PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 01/28/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-1 (01/28/94)

PAI Sample ID: 9400253

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 01/28/94
Date Analyzed: 01/28/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	13	5.0	2.5	0.93
71-43-2	Benzene	15	5.0	4.7	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	63	5.0	17	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	33	5.0	7.7	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-3 (01/28/94)

PAI Sample ID: 9400254

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 01/28/94
Date Analyzed: 01/28/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	4.0 TR	5.0	1.2 TR	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	21	5.0	4.0	0.93
71-43-2	Benzene	21	5.0	6.7	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	87	5.0	23	1.3
12-18-4	Tetrachloroethene	3.0 TR	5.0	0.45 TR	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	44	5.0	10	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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CONFIDENTIAL

Performance Analytical Inc.
Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-3 (01/28/94)

PAI Sample ID: 9400254 (Laboratory Duplicate)

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 01/28/94
Date Analyzed: 01/28/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	4.1 TR	5.0	1.2 TR	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	23	5.0	4.2	0.93
71-43-2	Benzene	23	5.0	7.1	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	90	5.0	24	1.3
12-18-4	Tetrachloroethene	3.4 TR	5.0	0.51 TR	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	47	5.0	11	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	02/03/94
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	01/31/94
	Westlake Village, CA 91362	PAI Project No:	6035
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose Landfill #J-152-6		

Six (6) Tedlar Bags labeled:

"P-10'" "Plant Inlet" "Q-10'" "U-37'" "U-68'" "V-40'"

The samples were received at the laboratory under chain of custody on January 31, 1994. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

SCAQMD Method 25.2 Analysis

The samples were analyzed for Total Gaseous Non-Methane Organics according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

Fixed Gases Analysis

One of the Tedlar Bag samples was analyzed for Fixed Gases (Oxygen, Nitrogen, Carbon Monoxide, Methane and Carbon Dioxide) and some of the samples were analyzed for Methane using a Hewlett Packard Model 5890 gas chromatograph equipped with a thermal conductivity detector (TCD).

Data Release Authorization:

Chris Parnell
Senior Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

002695

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Volatile Organic Compound Analysis

The samples were also analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The method was modified for using Tedlar Bags. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/ cryogenic concentration. The instrumentation used for sample analysis was comprised of a Finnigan Model 4500 GC/MS/DS interfaced to a Tekmar 5010 Automatic Desorber. A thick film (5 micron) crossbonded 100% Dimethylpolysiloxane megabore column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are included on the attached data sheets.

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6035

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 01/31/94
Date Analyzed: 01/31/94

Client Sample ID	PAI Sample ID	Methane (%, v/v) Result	Detection Limit
P-10' (01/31/94)	9400262	37.2	0.200
Q-10' (01/31/94)	9400263	41.1	0.200
U-37' (01/31/94)	9400264	46.5	0.200
U-68' (01/31/94)	9400265	52.5	0.200
V-40' (01/31/94)	9400266	54.8	0.200
N/A (01/31/94)	Method Blank	ND	0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF METHANE &

TOTAL GASEOUS NON-METHANE ORGANICS (TGNMO) ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6035

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 01/31/94
Date Analyzed: 01/31/94

Client Sample ID	PAI Sample ID	Total Non-Methane Organics (as Methane) Concentration in ppm, v/v Result	Detection Limit
P-10' (01/31/94)	9400262	1200	6.2
Q-10' (01/31/94)	9400263	1700	6.2
U-37' (01/31/94)	9400264	1900	6.2
U-68' (01/31/94)	9400265	2900	6.2
V-40' (01/31/94)	9400266	2900	6.2
Plant Inlet (01/31/94)	9400267	9200	6.2
Plant Inlet (01/31/94)	Lab Duplicate	8900	6.2
N/A (01/31/94)	Method Blank	ND	1.0

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6035

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bag
Date Received: 01/31/94
Date Analyzed: 01/31/94

Client Sample ID	PAI Sample ID	Oxygen (%, v/v)	Nitrogen (%, v/v)
Plant Inlet (01/31/94) (10:15)	9400267	1.64	21.1
Plant Inlet (01/31/94) (10:15)	Lab Duplicate	1.52	21.2
N/A (01/31/94)	Method Blank	ND < 0.0300	ND < 0.100

ND = Not Detected - Less Than Indicated Detection Limit

Client Sample ID	PAI Sample ID	Carbon Monoxide (%, v/v)	Methane (%, v/v)	Carbon Dioxide (%, v/v)
Plant Inlet (01/31/94) (10:15)	9400267	ND < 0.200	40.8	36.4
Plant Inlet (01/31/94) (10:15)	Lab Duplicate	ND < 0.200	40.9	36.4
N/A (01/31/94)	Method Blank	ND < 0.0200	ND < 0.0200	ND < 0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Casteel
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 02/01/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Plant Inlet (01/31/94) (10:15)

PAI Sample ID: 9400267

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 01/31/94
Date Analyzed: 02/01/94
Volume Analyzed: 5.0 ml

CAS #	COMPOUND	RESULT (MG/M^3)	DETECTION LIMIT (MG/M^3)	RESULT (PPM)	DETECTION LIMIT (PPM)
75-01-4	Vinyl Chloride	2.7	1.0	1.1	0.39
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene Chloride	ND	1.0	ND	0.29
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	5.3	1.0	1.7	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
79-01-6	Trichloroethene	1.9	1.0	0.35	0.19
108-88-3	Toluene	91	1.0	24	0.27
12-18-4	Tetrachloroethene	2.8	1.0	0.42	0.15
108-90-7	Chlorobenzene	7.8	1.0	1.7	0.22
1330-20-7	Total Xylenes	110	1.0	25	0.23
541-34-5	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-73-1	1,4-Dichlorobenzene	9.4	1.0	1.6	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17
100-44-7	Benzyl Chloride	ND	1.0	ND	0.19

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Performance Analytical Inc.
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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-10' (01/31/94) (08:00)

PAI Sample ID: 9400262

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 01/31/94
Date Analyzed: 02/01/94
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	790	250	310	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	1700	250	530	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	ND	250	ND	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	1700	250	360	55
1330-20-7	Total Xylenes	ND	250	ND	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	890	250	150	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-10' (01/31/94) (08:30)

PAI Sample ID: 9400263

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 01/31/94
Date Analyzed: 02/01/94
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	5200	250	2100	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	1700	250	540	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	ND	250	ND	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	650	250	140	55
1330-20-7	Total Xylenes	ND	250	ND	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	940	250	160	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-10' (01/31/94) (08:30)

PAI Sample ID: 9400263 (Laboratory Duplicate)

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 01/31/94
Date Analyzed: 02/01/94
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	5400	250	2100	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	1800	250	570	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	ND	250	ND	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	780	250	170	55
1330-20-7	Total Xylenes	ND	250	ND	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	2000	250	330	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: U-37' (01/31/94) (09:00)

PAI Sample ID: 9400264

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 01/31/94
Date Analyzed: 02/01/94
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	2500	250	990	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	1100	250	330	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	200 TR	250	54 TR	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	690	250	150	55
1330-20-7	Total Xylenes	ND	250	ND	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	1600	250	270	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: U-68' (01/31/94) (09:15)

PAI Sample ID: 9400265

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 01/31/94
Date Analyzed: 02/01/94
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	530	250	210	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	320	250	99	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	240 TR	250	45 TR	47
108-88-3	Toluene	540	250	140	66
12-18-4	Tetrachloroethene	150 TR	250	22 TR	37
108-90-7	Chlorobenzene	2200	250	480	55
1330-20-7	Total Xylenes	ND	250	ND	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	3800	250	630	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: V-40' (01/31/94) (09:30)

PAI Sample ID: 9400266

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 01/31/94
Date Analyzed: 02/01/94
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	250	ND	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	410	250	130	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	690	250	130	47
108-88-3	Toluene	250	250	67	66
12-18-4	Tetrachloroethene	850	250	130	37
108-90-7	Chlorobenzene	2200	250	480	55
1330-20-7	Total Xylenes	230 TR	250	52 TR	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	3700	250	610	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Methane Specialists
3617E. Thousand Oaks Blvd. #303
Westlake Village, CA 91362
805 373 9321

#6035

BAG SAMPLE CUSTODY FORM

PROJECT PENROSE JOB # 152-6 DATE: 1-31-94

BAGS (ID #)	P-10' 0800	Q-10' 0830	U-37' 0900	U-68' 0915	V-40' 0930	Plant Inlet 1015				
CONDITION (1) RECEIVED IN LAB	9400262	9400263	9400264	9400265	9400266	9400267				

BAGS (ID #)										
CONDITION (1) RECEIVED IN LAB										

Bags Prepared By: Alex T. Fewlet Time: 0800 - 1015

Date: 1-31-94

Bags Taken Out By: Alex T. Fewlet Time: 1035

Bags Taken to Lab By: Alex T. Fewlet

Bags Received In Lab By: [illegible] Time: 1115

(1) F = 1/2 full to full, O = overfull (bulging), L = 1/3 full to 1/2 full, E = less than 1/4 full but contains some sample, N = no sample at all.

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002708

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J152-6

Performance Analytical Inc.
Environmental Testing and Consulting

LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	03/15/94
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	02/28/94
	Westlake Village, CA 91362	PAI Project No:	6153
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose Landfill #J-152-6		

Eight (8) Tedlar Bags labeled:

"ISS #6"	"ISS #1"	"P-10'"	"Q-40'"	"Q-10'"
"U-37'"	"V-40'"	"Plant Inlet"		

The samples were received at the laboratory under chain of custody on February 28, 1994. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

SCAQMD Method 25.2 Analysis

The samples were analyzed for Total Gaseous Non-Methane Organics according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

Fixed Gases Analysis

One of the Tedlar Bag samples was analyzed for Fixed Gases (Oxygen, Nitrogen, Carbon Monoxide, Methane and Carbon Dioxide) and some of the samples were analyzed for Methane using a Hewlett Packard Model 5890 gas chromatograph equipped with a thermal conductivity detector (TCD).

Data Release Authorization:

Chris Parnell
Senior Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

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Volatile Organic Compound Analysis

The samples were also analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The method was modified for using Tedlar Bags. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Finnigan Model 4500 GC/MS/DS interfaced to a Tekmar 5010 Automatic Desorber. A thick film (5 micron) crossbonded 100% Dimethylpolysiloxane megabore column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are included on the attached data sheets.

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6153

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bag
Date Received: 02/28/94
Date Analyzed: 02/28/94

Client Sample ID	PAI Sample ID	Oxygen (%, v/v)	Nitrogen (%, v/v)
Plant Inlet (02/28/94) (11:30)	9400762	0.514	19.1
Plant Inlet (02/28/94) (11:30)	Lab Duplicate	0.489	19.2
N/A (02/28/94)	Method Blank	ND < 0.0300	ND < 0.100

ND = Not Detected - Less Than Indicated Detection Limit

Client Sample ID	PAI Sample ID	Carbon Monoxide (%, v/v)	Methane (%, v/v)	Carbon Dioxide (%, v/v)
Plant Inlet (02/28/94) (11:30)	9400762	ND < 0.200	41.6	38.8
Plant Inlet (02/28/94) (11:30)	Lab Duplicate	ND < 0.200	41.5	38.8
N/A (02/28/94)	Method Blank	ND < 0.0200	ND < 0.0200	ND < 0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6153

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 02/28/94
Date Analyzed: 02/28/94

Client Sample ID	PAI Sample ID	Methane (%, v/v) Result	Detection Limit
P-10' (02/28/94)	9400757	53.2	0.200
Q-40' (02/28/94)	9400758	34.3	0.200
Q-10' (02/28/94)	9400759	28.8	0.200
U-37' (02/28/94)	9400760	48.6	0.200
V-40' (02/28/94)	9400761	46.4	0.200
N/A (02/28/94)	Method Blank	ND	0.0200

ND = Not Detected - Less Than Indicated Detection Limit

002712

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6153

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 02/28/94
Date Analyzed: 02/28/94

RESULTS OF TOTAL GASEOUS NON-METHANE ORGANICS (TGNMO) ANALYSIS

Client Sample ID	PAI Sample ID	Total Non-Methane Organics (as Methane) Concentration in ppm, v/v	
		Result	Detection Limit
ISS #6 (02/28/94)	9400755	2.4	1.0
ISS #1 (02/28/94)	9400756	1.6	1.0
P-10' (02/28/94)	9400757	1300	6.2
Q-40' (02/28/94)	9400758	1500	6.2
Q-10' (02/28/94)	9400759	2500	6.2
U-37' (02/28/94)	9400760	3100	6.2
V-40' (02/28/94)	9400761	3000	6.2
Plant Inlet (02/28/94)	9400762	8800	6.2
Plant Inlet (02/28/94)	Lab Duplicate	9500	6.2
N/A (02/28/94)	Method Blank	ND	1.0

ND = Not Detected - Less Than Indicated Detection Limit

RESULTS OF METHANE ANALYSIS

Client Sample ID	PAI Sample ID	Methane Concentration in ppm, v/v	
		Result	Detection Limit
ISS #6 (02/28/94)	9400755	2.3	0.50
ISS #1 (02/28/94)	9400756	1.8	0.50
N/A (02/28/94)	Method Blank	ND	0.50

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Casteel
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 02/28/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 03/02/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 03/04/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS #6 (02/28/94) (07:50)

PAI Sample ID: 9400755

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 02/28/94
Date Analyzed: 02/28/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	3.5 TR	5.0	1.0 TR	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	18	5.0	3.3	0.93
71-43-2	Benzene	15	5.0	4.7	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	71	5.0	19	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	34	5.0	7.9	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	3.8 TR	5.0	0.64 TR	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS #1 (02/28/94) (08:50)

PAI Sample ID: 9400756

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 02/28/94
Date Analyzed: 02/28/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	6.0	5.0	1.1	0.93
71-43-2	Benzene	12	5.0	3.8	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	61	5.0	16	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	37	5.0	8.5	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	4.5 TR	5.0	0.75 TR	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-10' (02/28/94) (09:15)

PAI Sample ID: 9400757

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 02/28/94
Date Analyzed: 02/28/94
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	640	250	250	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	2300	250	730	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	ND	250	ND	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	3600	250	790	55
1330-20-7	Total Xylenes	ND	250	ND	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	990	250	170	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-10' (02/28/94) (09:15)

PAI Sample ID: 9400757 (Laboratory Duplicate)

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 02/28/94
Date Analyzed: 02/28/94
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	890	250	350	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	2400	250	750	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	ND	250	ND	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	3700	250	800	55
1330-20-7	Total Xylenes	ND	250	ND	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	990	250	170	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-40' (02/28/94) (10:00)

PAI Sample ID: 9400758

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 02/28/94
Date Analyzed: 02/28/94
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	1600	250	650	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	590	250	190	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	180 TR	250	33 TR	47
108-88-3	Toluene	ND	250	ND	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	3300	250	720	55
1330-20-7	Total Xylenes	ND	250	ND	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	2600	250	430	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-10' (02/28/94) (10:15)

PAI Sample ID: 9400759

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 02/28/94
Date Analyzed: 02/28/94
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	3300	250	1300	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	1900	250	600	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	ND	250	ND	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	1700	250	370	55
1330-20-7	Total Xylenes	ND	250	ND	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	5800	250	970	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: U-37' (02/28/94) (10:45)

PAI Sample ID: 9400760

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 02/28/94
Date Analyzed: 03/02/94
Volume Analyzed: 0.050 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	2700	100	1100	39
75-35-4	1,1-Dichloroethene	ND	100	ND	25
75-09-2	Methylene Chloride	ND	100	ND	29
75-34-3	1,1-Dichloroethane	ND	100	ND	25
67-66-3	Chloroform	ND	100	ND	21
107-06-2	1,2-Dichloroethane	ND	100	ND	25
71-55-6	1,1,1-Trichloroethane	ND	100	ND	19
71-43-2	Benzene	1000	100	330	31
56-23-5	Carbon Tetrachloride	ND	100	ND	16
79-01-6	Trichloroethene	ND	100	ND	19
108-88-3	Toluene	ND	100	ND	27
12-18-4	Tetrachloroethene	ND	100	ND	15
108-90-7	Chlorobenzene	890	100	190	22
1330-20-7	Total Xylenes	ND	100	ND	23
541-34-5	1,3-Dichlorobenzene	ND	100	ND	17
106-73-1	1,4-Dichlorobenzene	3000	100	500	17
95-50-1	1,2-Dichlorobenzene	ND	100	ND	17
100-44-7	Benzyl Chloride	ND	100	ND	19

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: V-40' (02/28/94) (11:10)

PAI Sample ID: 9400761

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 02/28/94
Date Analyzed: 03/02/94
Volume Analyzed: 0.050 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	100	ND	39
75-35-4	1,1-Dichloroethene	ND	100	ND	25
75-09-2	Methylene Chloride	ND	100	ND	29
75-34-3	1,1-Dichloroethane	ND	100	ND	25
67-66-3	Chloroform	ND	100	ND	21
107-06-2	1,2-Dichloroethane	ND	100	ND	25
71-55-6	1,1,1-Trichloroethane	ND	100	ND	19
71-43-2	Benzene	ND	100	ND	31
56-23-5	Carbon Tetrachloride	ND	100	ND	16
79-01-6	Trichloroethene	320	100	61	19
108-88-3	Toluene	ND	100	ND	27
12-18-4	Tetrachloroethene	560	100	83	15
108-90-7	Chlorobenzene	2000	100	430	22
1330-20-7	Total Xylenes	ND	100	ND	23
541-34-5	1,3-Dichlorobenzene	ND	100	ND	17
106-73-1	1,4-Dichlorobenzene	4800	100	810	17
95-50-1	1,2-Dichlorobenzene	ND	100	ND	17
100-44-7	Benzyl Chloride	ND	100	ND	19

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Plant Inlet (02/28/94) (11:30)

PAI Sample ID: 9400762

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 02/28/94
Date Analyzed: 03/04/94
Volume Analyzed: 0.0020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	2700	2500	1100	990
75-35-4	1,1-Dichloroethene	ND	2500	ND	640
75-09-2	Methylene Chloride	ND	2500	ND	730
75-34-3	1,1-Dichloroethane	ND	2500	ND	620
67-66-3	Chloroform	ND	2500	ND	520
107-06-2	1,2-Dichloroethane	ND	2500	ND	620
71-55-6	1,1,1-Trichloroethane	ND	2500	ND	460
71-43-2	Benzene	5500	2500	1700	780
56-23-5	Carbon Tetrachloride	ND	2500	ND	400
79-01-6	Trichloroethene	1500 TR	2500	280 TR	470
108-88-3	Toluene	90000	2500	24000	660
12-18-4	Tetrachloroethene	2700	2500	400	370
108-90-7	Chlorobenzene	4800	2500	1000	550
1330-20-7	Total Xylenes	83000	2500	19000	580
541-34-5	1,3-Dichlorobenzene	ND	2500	ND	420
106-73-1	1,4-Dichlorobenzene	3200	2500	540	420
95-50-1	1,2-Dichlorobenzene	ND	2500	ND	420
100-44-7	Benzyl Chloride	ND	2500	ND	490

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Sepich Associates

#6153

BAG SAMPLE CUSTODY FORM

PROJECT PENROSE JOB #J152-6 DATE: 2-28-94

BAGS (ID #)	ISS#6 0750	ISS#1 0850	P-10' 0915	Q-40' 1000	Q-10' 1015	U-37' 1045	V-40' 1110	Plant inlet 1130		
CONDITION (1) RECEIVED IN LAB	9400755	9400756	9400757	9400758	9400759	9400760	9400761	9400762		

BAGS (ID #)										
CONDITION (1) RECEIVED IN LAB										

Bags Prepared By: Alex Fendt Time: 0730 - 1130

Date: 2-28-94

Bags Taken Out By: Alex T. Fendt Time: 12:45

Bags Taken to Lab By: Alex T. Fendt

Bags Received In Lab By: Robin Taylor Time: 12:45

(1) F = 1/2 full to full, O = overfull (bulging), L = 1/3 full to 1/2 full, E = less than 1/4 full but contains some sample, N = no sample at all.

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LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	03/29/94
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	03/24/94
	Westlake Village, CA 91362	PAI Project No:	6251
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose Landfill #J-152-6		

Six (6) Tedlar Bags labeled:

"P-40'" "P-10'" "P-80'" "Q-40'" "Q-10'"
"Plant Inlet"

The samples were received at the laboratory under chain of custody on March 24, 1994. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

SCAQMD Method 25.2 Analysis

The samples were analyzed for Total Gaseous Non-Methane Organics, and one was analyzed for Carbon Monoxide according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

Fixed Gases Analysis

One of the Tedlar Bag samples was analyzed for Fixed Gases (Oxygen, Nitrogen, Carbon Monoxide, Methane and Carbon Dioxide) and the rest were analyzed for Methane using a Hewlett Packard Model 5890 gas chromatograph equipped with a thermal conductivity detector (TCD).

Data Release Authorization:

Chris Parnell

Chris Parnell
Senior Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

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Volatile Organic Compound Analysis

The samples were also analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The method was modified for using Tedlar Bags. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/ cryogenic concentration. The instrumentation used for sample analysis was comprised of a Finnigan Model 4500 GC/MS/DS interfaced to a Tekmar 5010 Automatic Desorber. A thick film (5 micron) crossbonded 100% Dimethylpolysiloxane megabore column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are included on the attached data sheets.

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6251

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 03/24/94
Date Analyzed: 03/24/94

RESULTS OF TOTAL GASEOUS NON-METHANE ORGANICS (TGNMO) ANALYSIS

Client Sample ID	PAI Sample ID	Total Non-Methane Organics (as Methane) Concentration in ppm, v/v	
		Result	Detection Limit
P-40' (03/24/94)	9401218	3000	6.2
P-10' (03/24/94)	9401219	1800	6.2
P-80' (03/24/94)	9401220	3000	6.2
Q-40' (03/24/94)	9401221	3300	6.2
Q-10' (03/24/94)	9401222	3800	6.2
Plant Inlet (03/24/94)	9401223	6600	6.2
Plant Inlet (03/24/94)	Lab Duplicate	6300	6.2
N/A (03/24/94)	Method Blank	ND	1.0

ND = Not Detected - Less Than Indicated Detection Limit

RESULTS OF CARBON MONOXIDE ANALYSIS

Client Sample ID	PAI Sample ID	Carbon Monoxide Concentration in ppm, v/v	
		Result	Detection Limit
Plant Inlet (03/24/94)	9401223	39	9.3
Plant Inlet (03/24/94)	9401223	57	9.3
N/A (03/24/94)	Method Blank	ND	1.5

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6251

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 03/24/94
Date Analyzed: 03/24/94

Client Sample ID	PAI Sample ID	Methane (%, v/v) Result	Detection Limit
P-40' (03/24/94)	9401218	46.6	0.200
P-10' (03/24/94)	9401219	56.4	0.200
P-80' (03/24/94)	9401220	28.8	0.200
Q-40' (03/24/94)	9401221	46.6	0.200
Q-10' (03/24/94)	9401222	48.4	0.200
N/A (03/24/94)	Method Blank	ND	0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #6251

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bag
Date Received: 03/24/94
Date Analyzed: 03/24/94

Client Sample ID	PAI Sample ID	Oxygen (%, v/v)	Nitrogen (%, v/v)
Plant Inlet (03/24/94) (09:50)	9401223	1.42	23.4
Plant Inlet (03/24/94) (09:50)	Lab Duplicate	1.36	23.3
N/A (03/24/94)	Method Blank	ND < 0.0300	ND < 0.100

ND = Not Detected - Less Than Indicated Detection Limit

Client Sample ID	PAI Sample ID	Methane (%, v/v)	Carbon Dioxide (%, v/v)
Plant Inlet (03/24/94) (09:50)	9401223	39.0	36.2
Plant Inlet (03/24/94) (09:50)	Lab Duplicate	39.3	36.0
N/A (03/24/94)	Method Blank	ND < 0.0200	ND < 0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 03/25/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	10	ND	2.9
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-40' (03/24/94) (07:55)

PAI Sample ID: 9401218

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 03/24/94
Date Analyzed: 03/25/94
Volume Analyzed: 0.050 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	6800	100	2700	39
75-35-4	1,1-Dichloroethene	ND	100	ND	25
75-09-2	Methylene Chloride	ND	200	ND	58
75-34-3	1,1-Dichloroethane	170	100	42	25
67-66-3	Chloroform	ND	100	ND	21
107-06-2	1,2-Dichloroethane	ND	100	ND	25
71-55-6	1,1,1-Trichloroethane	ND	100	ND	19
71-43-2	Benzene	710	100	220	31
56-23-5	Carbon Tetrachloride	ND	100	ND	16
79-01-6	Trichloroethene	200	100	38	19
108-88-3	Toluene	780	100	210	27
12-18-4	Tetrachloroethene	65 TR	100	9.7 TR	15
108-90-7	Chlorobenzene	4900	100	1100	22
1330-20-7	Total Xylenes	940	100	220	23
541-34-5	1,3-Dichlorobenzene	ND	100	ND	17
106-73-1	1,4-Dichlorobenzene	170	100	28	17
95-50-1	1,2-Dichlorobenzene	ND	100	ND	17
100-44-7	Benzyl Chloride	ND	100	ND	19

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-10' (03/24/94) (08:10)

PAI Sample ID: 9401219

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 03/24/94
Date Analyzed: 03/25/94
Volume Analyzed: 0.10 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	770	50	300	20
75-35-4	1,1-Dichloroethene	ND	50	ND	13
75-09-2	Methylene Chloride	110	100	31	29
75-34-3	1,1-Dichloroethane	140	50	36	12
67-66-3	Chloroform	ND	50	ND	10
107-06-2	1,2-Dichloroethane	ND	50	ND	12
71-55-6	1,1,1-Trichloroethane	ND	50	ND	9.3
71-43-2	Benzene	1300	50	400	16
56-23-5	Carbon Tetrachloride	ND	50	ND	8.0
79-01-6	Trichloroethene	39 TR	50	7.3 TR	9.4
108-88-3	Toluene	120	50	31	13
12-18-4	Tetrachloroethene	ND	50	ND	7.5
108-90-7	Chlorobenzene	660	50	140	11
1330-20-7	Total Xylenes	130	50	31	12
541-34-5	1,3-Dichlorobenzene	ND	50	ND	8.4
106-73-1	1,4-Dichlorobenzene	90	50	15	8.4
95-50-1	1,2-Dichlorobenzene	ND	50	ND	8.4
100-44-7	Benzyl Chloride	ND	50	ND	9.7

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-80' (03/24/94) (08:50)

PAI Sample ID: 9401220

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 03/24/94
Date Analyzed: 03/25/94
Volume Analyzed: 0.050 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	6300	100	2500	39
75-35-4	1,1-Dichloroethene	ND	100	ND	25
75-09-2	Methylene Chloride	220	200	64	58
75-34-3	1,1-Dichloroethane	150	100	38	25
67-66-3	Chloroform	ND	100	ND	21
107-06-2	1,2-Dichloroethane	ND	100	ND	25
71-55-6	1,1,1-Trichloroethane	ND	100	ND	19
71-43-2	Benzene	300	100	94	31
56-23-5	Carbon Tetrachloride	ND	100	ND	16
79-01-6	Trichloroethene	510	100	96	19
108-88-3	Toluene	170	100	45	27
12-18-4	Tetrachloroethene	190	100	28	15
108-90-7	Chlorobenzene	5700	100	1200	22
1330-20-7	Total Xylenes	160	100	37	23
541-34-5	1,3-Dichlorobenzene	ND	100	ND	17
106-73-1	1,4-Dichlorobenzene	190	100	31	17
95-50-1	1,2-Dichlorobenzene	ND	100	ND	17
100-44-7	Benzyl Chloride	ND	100	ND	19

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-40' (03/24/94) (09:20)

PAI Sample ID: 9401221

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 03/24/94
Date Analyzed: 03/25/94
Volume Analyzed: 0.10 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	4400	50	1700	20
75-35-4	1,1-Dichloroethene	53	50	13	13
75-09-2	Methylene Chloride	110	100	31	29
75-34-3	1,1-Dichloroethane	60	50	15	12
67-66-3	Chloroform	ND	50	ND	10
107-06-2	1,2-Dichloroethane	ND	50	ND	12
71-55-6	1,1,1-Trichloroethane	ND	50	ND	9.3
71-43-2	Benzene	540	50	170	16
56-23-5	Carbon Tetrachloride	ND	50	ND	8.0
79-01-6	Trichloroethene	150	50	28	9.4
108-88-3	Toluene	120	50	32	13
12-18-4	Tetrachloroethene	31 TR	50	4.6 TR	7.5
108-90-7	Chlorobenzene	800	50	170	11
1330-20-7	Total Xylenes	150	50	34	12
541-34-5	1,3-Dichlorobenzene	ND	50	ND	8.4
106-73-1	1,4-Dichlorobenzene	210	50	35	8.4
95-50-1	1,2-Dichlorobenzene	ND	50	ND	8.4
100-44-7	Benzyl Chloride	ND	50	ND	9.7

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-10' (03/24/94) (09:30)

PAI Sample ID: 9401222

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 03/24/94
Date Analyzed: 03/25/94
Volume Analyzed: 0.050 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	3600	100	1400	39
75-35-4	1,1-Dichloroethene	ND	100	ND	25
75-09-2	Methylene Chloride	240	200	71	58
75-34-3	1,1-Dichloroethane	ND	100	ND	25
67-66-3	Chloroform	ND	100	ND	21
107-06-2	1,2-Dichloroethane	ND	100	ND	25
71-55-6	1,1,1-Trichloroethane	ND	100	ND	19
71-43-2	Benzene	1600	100	510	31
56-23-5	Carbon Tetrachloride	ND	100	ND	16
79-01-6	Trichloroethene	73 TR	100	14 TR	19
108-88-3	Toluene	240	100	65	27
12-18-4	Tetrachloroethene	ND	100	ND	15
108-90-7	Chlorobenzene	440	100	96	22
1330-20-7	Total Xylenes	320	100	74	23
541-34-5	1,3-Dichlorobenzene	ND	100	ND	17
106-73-1	1,4-Dichlorobenzene	330	100	55	17
95-50-1	1,2-Dichlorobenzene	ND	100	ND	17
100-44-7	Benzyl Chloride	ND	100	ND	19

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Environmental Testing and Consulting

PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Plant Inlet (03/24/94) (09:50)

PAI Sample ID: 9401223

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 03/24/94
Date Analyzed: 03/25/94
Volume Analyzed: 2.0 ml

CAS #	COMPOUND	RESULT (MG/M^3)	DETECTION LIMIT (MG/M^3)	RESULT (PPM)	DETECTION LIMIT (PPM)
75-01-4	Vinyl Chloride	2.2 TR	2.5	0.87 TR	0.99
75-35-4	1,1-Dichloroethene	ND	2.5	ND	0.64
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	2.5	ND	0.62
67-66-3	Chloroform	ND	2.5	ND	0.52
107-06-2	1,2-Dichloroethane	ND	2.5	ND	0.62
71-55-6	1,1,1-Trichloroethane	2.7	2.5	0.50	0.46
71-43-2	Benzene	5.8	2.5	1.8	0.78
56-23-5	Carbon Tetrachloride	ND	2.5	ND	0.40
79-01-6	Trichloroethene	1.9 TR	2.5	0.35 TR	0.47
108-88-3	Toluene	72	2.5	19	0.66
12-18-4	Tetrachloroethene	2.9	2.5	0.44	0.37
108-90-7	Chlorobenzene	6.0	2.5	1.3	0.55
1330-20-7	Total Xylenes	64	2.5	15	0.58
541-34-5	1,3-Dichlorobenzene	ND	2.5	ND	0.42
106-73-1	1,4-Dichlorobenzene	ND	2.5	ND	0.42
95-50-1	1,2-Dichlorobenzene	ND	2.5	ND	0.42
100-44-7	Benzyl Chloride	ND	2.5	ND	0.49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Plant Inlet (03/24/94) (09:50)

PAI Sample ID: 9401223 (Laboratory Duplicate)

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 03/24/94
Date Analyzed: 03/25/94
Volume Analyzed: 2.0 ml

CAS #	COMPOUND	RESULT (MG/M^3)	DETECTION LIMIT (MG/M^3)	RESULT (PPM)	DETECTION LIMIT (PPM)
75-01-4	Vinyl Chloride	2.5 TR	2.5	0.98 TR	0.99
75-35-4	1,1-Dichloroethene	ND	2.5	ND	0.64
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	2.5	ND	0.62
67-66-3	Chloroform	ND	2.5	ND	0.52
107-06-2	1,2-Dichloroethane	ND	2.5	ND	0.62
71-55-6	1,1,1-Trichloroethane	2.7	2.5	0.50	0.46
71-43-2	Benzene	5.3	2.5	1.7	0.78
56-23-5	Carbon Tetrachloride	ND	2.5	ND	0.40
79-01-6	Trichloroethene	2.0 TR	2.5	0.37 TR	0.47
108-88-3	Toluene	71	2.5	19	0.66
12-18-4	Tetrachloroethene	2.8	2.5	0.42	0.37
108-90-7	Chlorobenzene	6.2	2.5	1.4	0.55
1330-20-7	Total Xylenes	64	2.5	15	0.58
541-34-5	1,3-Dichlorobenzene	ND	2.5	ND	0.42
106-73-1	1,4-Dichlorobenzene	ND	2.5	ND	0.42
95-50-1	1,2-Dichlorobenzene	ND	2.5	ND	0.42
100-44-7	Benzyl Chloride	ND	2.5	ND	0.49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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Sepich Associates, Inc
3617 E. Thousand Oaks Blvd, #303
Westlake Village, CA

#6251

Ph: 818 707 3036

BAG SAMPLE CUSTODY FORM

PROJECT PENROSE JOB # J 152-6 DATE: 3-24-94

BAGS (ID #)	P-40' 0755	P-10' 0810	P-80' 0850	Q-40' 0920	Q-10' 0930	Plant Inlet 0950				
CONDITION (1) RECEIVED IN LAB	9401218	9401219	9401220	9401221	9401222	9401223				

BAGS (ID #)										
CONDITION (1) RECEIVED IN LAB										

Bags Prepared By: Alex T. Fenkt Time: 0755-0950

Date: 3-24-94

Bags Taken Out By: _____ Time: _____

Bags Taken to Lab By: 1105

Bags Received In Lab By: Robin Taylor Time: Alex T. Fenkt

(1) F = 1/2 full to full, O = overfull (bulging), L = 1/3 full to 1/2 full, E = less than 1/4 full but contains some sample, N = no sample at all.

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LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	04/04/94
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	03/28/94
	Westlake Village, CA 91362	PAI Project No:	6260
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose Landfill #J-152-6		

Two (2) Tedlar Bags labeled: "ISS #6" and "ISS #1"

The samples were received at the laboratory under chain of custody on March 28, 1994. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

SCAQMD Method 25.2 Analysis

The samples were analyzed for Methane and Total Gaseous Non-Methane Organics according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

Volatile Organic Compound Analysis

The samples were also analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The method was modified for using Tedlar Bags. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/ cryogenic concentration. The instrumentation used for sample analysis was comprised of a Finnigan Model 4500 GC/MS/DS interfaced to a Tekmar 5010 Automatic Desorber. A thick film (5 micron) crossbonded 100% Dimethylpolysiloxane megabore column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are included on the attached data sheets.

Data Release Authorization:

Chris Parnell
Senior Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

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RESULTS OF METHANE &

TOTAL GASEOUS NON-METHANE ORGANICS (TGNMO) ANALYSIS

Client: Sepich Associates

Client Project ID: #J152-6
PAI Project ID: #6260

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 03/28/94
Date Analyzed: 03/28/94

Client Sample ID	PAI Sample ID	Concentration in ppm, v/v	
		Methane	Total Non-Methane Organics (as Methane)
ISS #6 (03/28/94)	9401260	2.0	ND < 1.0
ISS #1 (03/28/94)	9401261	2.1	ND < 1.0
ISS #1 (03/28/94)	Lab Duplicate	2.0	ND < 1.0
N/A (03/28/94)	Method Blank	ND < 0.50	ND < 1.0

ND = Not Detected - Less Than Indicated Detection Limit

002742

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Casteel
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 03/29/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS #6 (03/28/94) (14:15)

PAI Sample ID: 9401260

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 03/28/94
Date Analyzed: 03/29/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	12	5.0	3.6	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	9.0	5.0	1.7	0.93
71-43-2	Benzene	12	5.0	3.8	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	520	5.0	140	1.3
12-18-4	Tetrachloroethene	6.3	5.0	0.94	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	87	5.0	20	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS #1 (03/28/94) (15:00)

PAI Sample ID: 9401261

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 03/28/94
Date Analyzed: 03/29/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	12	5.0	3.6	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	6.4	5.0	1.2	0.93
71-43-2	Benzene	11	5.0	3.5	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	220	5.0	59	1.3
12-18-4	Tetrachloroethene	4.8 TR	5.0	0.71 TR	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	60	5.0	14	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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PERFORMANCE ANALYTICAL INC.

RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS #1 (03/28/94) (15:00)

PAI Sample ID: 9401261 (Laboratory Duplicate)

Test Code: GC/MS Mod. EPA TO-14
Analyst: Chris Parnell
Instrument ID: Finnigan 4500C/Tekmar 5010
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 03/28/94
Date Analyzed: 03/29/94
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	11	5.0	3.2	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	6.9	5.0	1.3	0.93
71-43-2	Benzene	11	5.0	3.3	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	210	5.0	57	1.3
12-18-4	Tetrachloroethene	4.9 TR	5.0	0.73 TR	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	57	5.0	13	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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JOB NAME: PENROSE

FILE (JOB#): J152-6

DATE: 3-28-94 PM

CHAIN OF CUSTODY RECORD

SHEET ___ OF ___

SAMPLE TAKEN BY: Robert T. Fenchel

#6260

JOHN SEPICH ASSOCIATES, INC.

SAMPLE DATA

SAMPLE I.D./NO.	DATE SAMPLED	TIME SAMPLED	COMPOSITE "C" OR GRAB "G"	NUMBER OF CONTAINERS	SAMPLE ~~DESCRIPTION~~	ANALYSES REQUIRED: Core Grain	NMHC	CH4						REMARKS
	3/28/94	1415	C 25min	1	ISS# 6	✓	✓	✓						9401260
	3/28/94	1500	C 20min	1	ISS# 1	✓	✓	✓						9401261

CUSTODY	SIGNATURE	COMPANY	DATE	TIME
RELINQUISHED BY:	Robert T. Fenchel	Sepich Assoc	3-28-94	1600
RECEIVED BY:	Kelvin De Zeu	PERFORMANCE ANALY	3/28/94	16:00
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				

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EXHIBIT E

Documentation for Annual Requirements

First Quarter, 1994

002748

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PENROSE LANDFILL

Landfill Gas Generation

Year	Estimated Generation (BTU)	Collection Efficiency	Collected (BTU)
Actual:			
1988	533,722	85.00%	453,664
1989	507,036	85.78%	434,912
1990	481,684	83.78%	403,572
1991	457,600	78.25%	358,055
1992	434,720	83.57%	363,291
1993	412,984	85.00%	389,842
Projected:			
1994	392,335	85.00%	333,485
1995	372,718	85.00%	316,810
1996	354,082	85.00%	300,970
1997	336,378	85.00%	285,921
1998	319,559	85.00%	271,625
1999	303,581	85.00%	258,044
2000	288,402	85.00%	245,142
2001	273,982	85.00%	232,885
2002	260,283	85.00%	221,240
2003	247,269	85.00%	210,178
2004	234,905	85.00%	199,669

NOTES: (1) The amount of landfill gas collected during the years 1988 through 1993 represent the actual amount of landfill gas burned at the Penrose electrical generation facility.

(2) The estimate of landfill gas being generated is based on an assumed 85% collection efficiency and an average decline in the generation of 5% each year.

(3) The 5% decline in landfill gas generation is based on Pacific Energy's experience with other landfills and the average annual gas generation decline, based on historical collection rates at Penrose.

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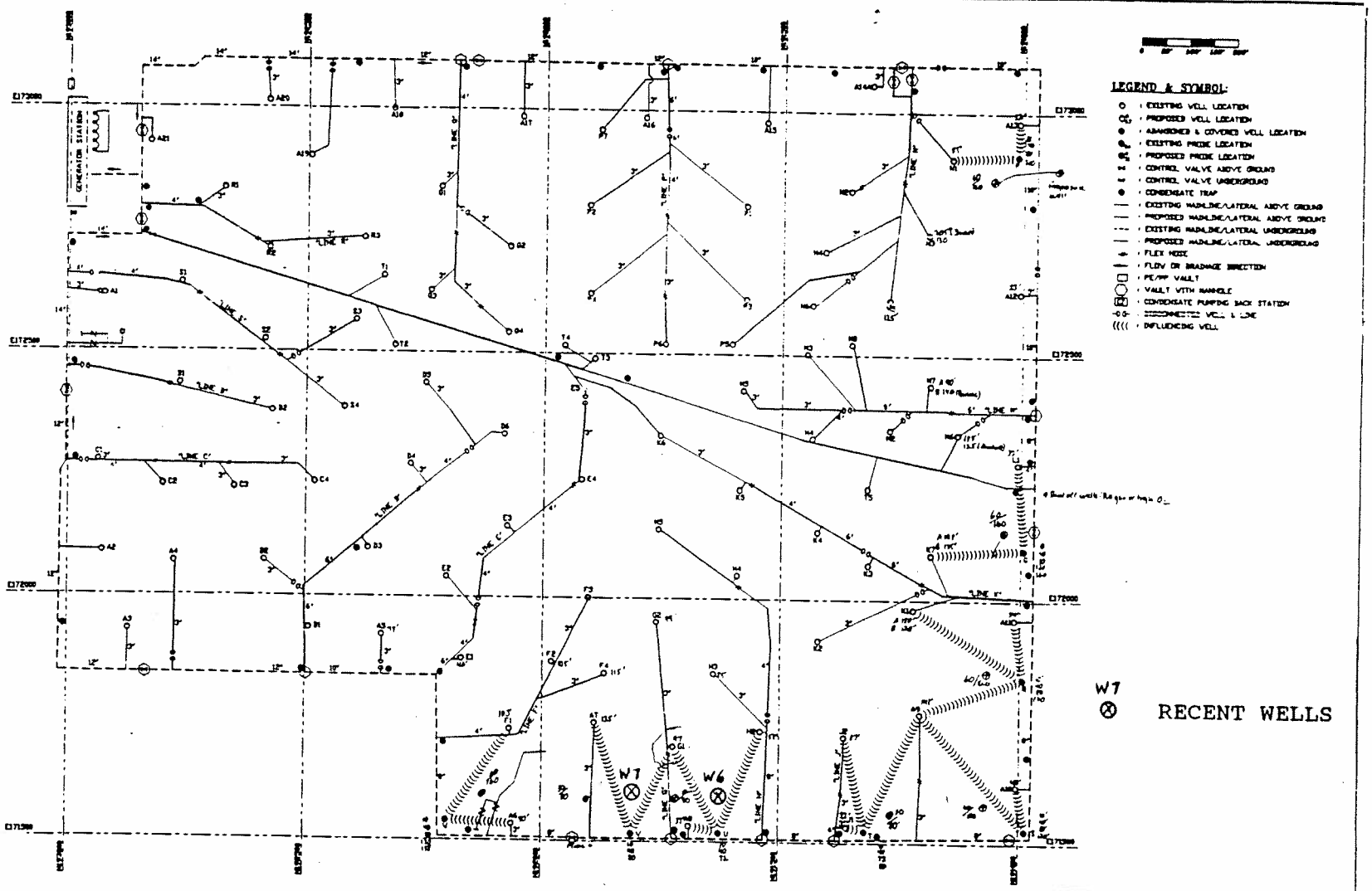
To Alex Feucht	From George Dawson
Co. John Sepich & Assoc.	Co. Pacific Energy
Dept.	Phone # (213) 725-1139
Fax # (805) 373-8987	Fax #

TOTAL P.01



PENROSE GAS COLLECTION SYSTEM

WELL PLAN/PRODUCTION MAINLINE

NO.	REVISION	DRAWN	CHECK	DATE
B	REVISED	Y.W.C		1/21/94
A	INITIAL	Y.W.C		12/16/92

PACIFIC ENERGY
6055 E. WASHINGTON BLVD, COMMERCE, CA. 90040

DRAWN Y.W.C CHECK APPR DATE 12/16/92 NO. TOP-V1

PENROSE SANITARY LANDFILL
TOPOGRAPHY/SITE PLAN &
WELL LOCATION/PRODUCTION MAINLINE

NO. D-7280-TP-001 SHEET 1 of 1 SCALE 1"=60' REV. B

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Sepich Associates Inc.

METHANE SPECIALISTS

3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362

TEL (818) 707-3036
(805) 373-9321

FAX (818) 707-3012
(805) 373-8987

January 14, 1994

California South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, California 91765-4182

Attention: Senior Engineering Manager
Public Facilities Branch

Landfill Monitoring Report for Fourth Quarter, 1993
Penrose Landfill - 8301 Tujunga Avenue, Sun Valley, California
Rule 1150.1 Compliance Plan

This is the first quarterly landfill monitoring report submitted to the State of California South Coast Air Quality Management District (SCAQMD), and is for the period October - December, 1993. Monitoring for this report was performed on October 22 and December 14, 17, and 20, 1993. Follow-up perimeter probe samples were collected on November 10 and December 21, 1993. Instantaneous surface monitoring was conducted on December 14, 1993. A plant inlet sample was collected on December 20, 1993. Integrated surface samples were collected on December 21, 1993.

A. MONITORING AND REPORTING PROGRAM (PERMIT REQUIREMENTS)

- General: To meet the provisions contained in Rule 1150.1 Compliance Plan for the Penrose Landfill and Guidelines for Implementation of Rule 1150.1 (latest revision October 1989) of the SCAQMD, and the provisions of the State of California, Health and Safety Code Section 41805.5 (Calderon Bill) and regulations and guidelines adopted thereunder, Los Angeles By-Products was ordered to comply with requirements for Rule 1150.1, that were approved by SCAQMD on February 10, 1993 for the Penrose Landfill, located at 8301 Tujunga Avenue, Sun Valley, California.

- Project Specific: On September 10, 1993, at the requrest of L.A. ByProducts, Mr. John Sepich of Sepich Associates met with Mr. Ted Kowalczyk of the SCAQMD. Guidance was sought regarding the implementation of the program for the specific conditions at the Penrose site. Mr. Kowalczyk clarified requirements regarding the number, depth and location of new probes; and the integrated surface and ambient air sqampling requirements.

- New Probes: Rule 1150.1 requires installation of perimeter probes at specified intervals based on adjacent occupancy. Based on Rule 1150.1, eight probe clusters (each cluster consists of three or more probes installed in one or two borings in close proximity to each other) were installed in September and October of 1993 to supplement the previous array of perimeter probes. Hereafter probe clusters will be referred to as probes, with probe depths designated where necessary to distinguish individual probes. The recently installed probes consist of one-half inch PVC pipe with a one-foot screened interval at the bottom of the probe and a valve at the probe-head for sample extraction. Exhibit A, Probe Location

Map, shows the locations of the new perimeter probes (Probes P through W). Exhibit B contains the boring logs and probe installation details.

Rule 1150.1 requires perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, ambient air sampling, and plant inlet gas sampling on a monthly basis, with reporting effected on quarterly and annual bases. Penrose Landfill has been exempted from the ambient air sampling requirements pending results from initial monitoring. The Rule also requires plant inlet gas analyses on a quarterly basis and simultaneous source tests at the inlet and outlet of the gas disposal system, on an annual basis.

A.1 Perimeter Probe Monitoring (Rule 1150.1 Requirement 2.0)

Initial perimeter probe monitoring requires measurement, at all probe locations, for total organic compounds (TOC), measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on the results of the initial monitoring, one of two possible requirements govern follow-up sampling:

2.4: If the TOC concentration in any of the probes is greater than five percent (5%) by volume, one 10-liter bag sample shall be collected from each of those probes with highest concentration above 5% TOC (up to a maximum of five probes) and the contents analyzed for total non-methane hydrocarbons (NMHC) and the core group toxic air contaminants specified in Table I of the "Guidelines for Implementation of Rule 1150.1" (revised in October 1989 or the most recent revision).

2.5: If the TOC concentrations in all of the probes are five percent (5%) by volume or less, one 10-liter bag sample from the probe with the highest reading shall be collected and the contents analyzed for total NMHC and the core group toxic air contaminants.

See Exhibit C, Table I for core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

2.6 If perimeter probe monitoring at any probe location shows that the TOC concentration is greater than one percent (1%) by volume, mitigation measures such as adjusting the gas collection system shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 1%, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.2 Integrated Surface Sampling (Rule 1150.1 Requirement 3.0)

Initial integrated surface sampling requires collection and analysis (for TOC measured as methane) of 10-liter gas samples, taken in a 25 minute period, over approved, pre-determined 50,000 square-foot grids, using an approved integrated surface sampler. Exhibit D includes two maps with approved sampling grids (instantaneous surface monitoring plans A and B). Based on the results of the initial monitoring one of two possible requirements govern follow-up sampling:

3.4 If the TOC concentration in any of the integrated surface samples is greater than 50 ppmv (parts per million by volume), a minimum of two (2) samples or ten percent (10%) of all samples which have a TOC concentration greater than 50 ppmv, whichever is greater, shall be analyzed for methane, total NMHC and core group toxic air contaminants.

3.5 If the TOC concentrations in all integrated surface samples are 50 ppmv or less, a minimum of two (2) samples shall be analyzed for methane, total NMHC and core group toxic air contaminants.

Based on monitoring results, the requirement for mitigation is stated as follows:

3.6 If the integrated surface sampling at any grid shows that the TOC concentration is greater than 50 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented on the affected grid immediately. A follow-up sampling for TOC on the affected grid shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 50 ppmv, additional mitigation measures such as installation of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.3 Instantaneous Surface Monitoring (Rule 1150.1 Requirement 4.0)

Instantaneous surface monitoring requires measurement, over the landfill surface, for total organic compounds (TOC) measured as methane, using a flame ionization detector (FID) or other approved instrument. Based on monitoring results, the requirement for mitigation is stated as follows:

4.3 If the instantaneous surface monitoring at any location shows that the TOC concentration is greater than 500 ppmv, mitigation measures such as adjusting the gas collection system and adding and compacting cover soil shall be implemented at the affected location immediately. A follow-up sampling for TOC at the affected probe shall be conducted and the results recorded within two (2) weeks after the exceedance is detected. If the TOC concentration is still greater than 500 ppmv, additional mitigation measures such as installation

of additional landfill gas collection wells shall be implemented upon approval by the executive officer.

A.4 Collection Systems Inlet Sampling (Rule 1150.1 Requirement 6.0)

Plant inlet sampling requires collection a of 10-liter gas sample for tests for flow rate, temperature, and pressure; and analyses for oxygen, carbon dioxide, methane, total NMHC, and core group toxic air contaminants.

A.5 Collection and Disposal Systems Sampling (Rule 1150.1 Requirement 7.0)

On an annual basis, simultaneous source test sampling at the inlet and outlet of the gas disposal system is required for analyses for methane, NMHC, and core group toxic air contaminants.

A.6 Reporting Requirements (Rule 1150.1 Requirement 8.0)

Rule 1150.1 requires quarterly reports containing results from monthly perimeter probe sampling, integrated surface sampling, instantaneous surface monitoring, and landfill gas sampling. With the first quarterly report and annually thereafter six additional items of informational are required:

1. Identification of owners and operators of all facilities within the landfill property.

2. Types and weights of waste materials deposited in the reporting year.

3. Total amount of waste materials deposited to date.

4. Contour map showing updated landfill boundary.

5. An estimation of current and projected maximum gas generation rate with all supporting data and calculations upon which the estimation is based.

6. A description of the gas collection and disposal system including gas disposal rate.

B. FIELD MONITORING AND SAMPLING

During this past monitoring period, October through December 1993, field monitoring was conducted on October 22 and December 14 through 20. Perimeter probe samples were collected for laboratory analysis on November 10, and December 21, 1993. The October monitoring event was a post probe installation monitoring of the perimeter probes only. In November several attempts to collect integrated surface samples were aborted due to winds in excess of 5 miles per hour (mph).

The December monitoring began December 14, 1993 with the instantaneous surface monitoring conducted between 7:40 and 10:40 AM, with a Foxboro Century 128 FID. Perimeter probe monitoring was started on December 17, and finished on December 20. Integrated surface samples were collected on December 21.

B.1 Perimeter Probe Monitoring and Sampling

Before commencing monitoring on October 22, and December 17 and 20, the Bacharach HPK was calibrated using 2.5% by volume methane calibrant. Before monitoring or sampling from a gas probe, the probe was evacuated until the TOC concentration remained constant for at least 30 seconds. Tedlar bag samples were collected using the direct pump sampling procedure. The sample bags were labeled and then stored in a light-free environment. Samples and chain-of-custody documentation were delivered to Performance Analytical Inc. (PAI), a certified analytical laboratory in Canoga Park, California, within 24 hours of sampling.

Perimeter probe monitoring on October 22, 1993 with a Bacharach HPK combustible gas detector, resulted in sampling at Probes C, P, Q, and U on November 10, 1993.

Perimeter probe monitoring on December 17 and 20, with a Bacharach HPK, resulted in sampling at Probes I, P, and Q on December 21. Monitoring results were discussed with Pacific Energy (operator of the gas extraction system at the landfill) personnel who said they would increase production from areas with high perimeter probe monitoring readings. Evacuation of Probe I (screen depth 37 feet), preparatory to sampling on December 21, 1993, reduced combustible gas readings to zero as measured with the HPK, therefore, no sample was collected from Probe I for laboratory analysis. A map of probe locations can be found in Exhibit A and perimeter probe monitoring data sheets are included in Exhibit E.

B.2 Integrated Surface Sampling

Integrated surface sampling was conducted on December 21, 1993 by focusing sampling efforts in zones where previously conducted instantaneous surface monitoring had found the highest TOC concentrations. During instantaneous surface monitoring, five areas in October and only one area in December had TOC greater than 500 ppmv, area 5 in the southwest corner of the property, as displayed on the grid plan A map (Exhibit E). The integrated samples were taken at the five zones of higher TOC, marked on the map. The integrated surface sampling was conducted, with the sampling funnel held less than 3 inches from the ground surface, at a time when surface winds were less than 5 mph. While filling the Tedlar bags, the sampling rate was maintained at approximately 400 cubic centimeters per minute.

B.3 Instantaneous Surface Monitoring

Instantaneous surface monitoring was conducted on October 29 and December 14, 1993. In October both grid plan A and grid plan B were traversed.

In December traversing was conducted between 7:40 and 10:40 AM, with a recently calibrated Foxboro Century 128 FID. Grid plan A (Exhibit D) was traversed during the monitoring. By 9:40 AM a slight breeze had developed which may have momentarily exceeded 5 mph during the last hour of monitoring.

B.4 Plant Inlet Sampling

A 10-liter bag sample was collected from the Pacific Energy electrical generation plant input pipeline on December 20, 1993. Inlet gas was monitored with recently calibrated Bacharach HPK and Industrial Scientific Corporation, HS267, hydrogen sulfide (H_2S) detectors.

B.5 Simultaneous Inlet/Exhaust Sampling

We did not collect simultaneous inlet/exhaust samples. The gas collection system and the electrical power (disposal system) plant operated by Pacific Energy is operating under an SCAQMD permit to operate, an SCAQMD permit for the collection system, and a power plant permit. These permits are managed by the SCAQMD Landfill Group. Information regarding inlet and exhaust analytical data was not made availble by the plant operator and owner, Pacific Energy to L.A.ByProducts. SCAQMD files regarding those permits are hereby referred to for all information regarding plant inlet/exhaust sampling data.

B.6 Reporting Requirements

This is the first in a series of reports for Penrose Landfill. We hope that by working with SCAQMD, Los Angeles By-Products, SCAQMD, and Pacific Energy we can fine-tune our procedures and develop excellent reports for this project.

C. FIELD AND LABORATORY RESULTS

Field monitoring data was reported on gas concentration forms. Pertinent field data is included with this report. Samples for laboratory analyses were collected following specifications of Rule 1150.1 and delivered to Performance Analytical Inc. Field monitoring data are included in Exhibit E. Laboratory analytical results and chain-of-custody documentation are enclosed in Exhibit F.

C.1 Perimeter Probe Monitoring and Laboratory Results

October 22 monitoring results were highest from Probes C (23% @ 61'), P (50% @ 40'), Q (45% @ 40'), and U (26% @ 68'). The November 10 Tedlar bag samples were analyzed for methane by SCAQMD Method 25.2 (C-61) and by a gas chromatograph equipped with a thermal conductivity detector (GC/TCD) (P-40, Q-40, and U-68). Analytical results were 230 ppmv, 44% by volume, 38% by volume, and 49% by volume from Probes C, P, Q, and U, respectively.

The December HPK readings from Probes P and Q (10 and 40-foot depths) ranged from 8% to 30% by volume. Tedlar bag samples were analyzed for methane by SCAQMD Method 25.2 and by GC/TCD, for total NMHC by SCAQMD Method 25.2, and for Volatile Organic Compounds (VOC) by EPA Method TO-40. Analytical results were 44%, 43%, 42%, and 33% by volume methane in samples P-10, P-40, Q-10, and Q-40, respectively. NMHC and VOC analytical results are included in Exhibit E.

C.2 Integrated Surface Sample Analytical Results

Tedlar bag samples were analyzed for methane by SCAQMD Method 25.2 and by GC/TCD, for total NMHC by SCAQMD Method 25.2, and for VOC by EPA Method TO-40. Analytical results were 2.6, 2.3, 2.3, 2.1, and 3.4 ppmv methane in samples from zones 1, 2, 3, 4, and 5, respectively. NMHC and VOC analytical results are included in Exhibit F.

C.3 Instantaneous Surface Monitoring Results

In October the instantaneous surface monitoring found five areas with TOC concentrations greater than 500 ppmv. Three of the areas were at settlement cracks, one was at a large pothole, and one was near a well in the southeast corner of the landfill. Mitigation was accomplished by grading, filling, and compacting. Integrated surface sampling in December indicated that the mitigation had been successful.

In December TOC concentration greater than 500 ppmv was detected in one area, area 5 in the southwest corner of the landfill, as displayed on the grid plan A map (Exhibit D). Areas of highest TOC concentrations were later used as a basis for focusing integrated surface sampling efforts.

C.4 Plant Inlet Monitoring and Laboratory Analytical Results

The combustible gas detector recorded 15% methane and 15.5% oxygen. The HS267 detected 65 ppm H_2S. Laboratory results indicated 43% methane, 0.76% NMHC, less than 0.2% hydrogen, 0.3% oxygen, 18% nitrogen, less than 0.2% carbon monoxide, and 39% carbon dioxide.

C.5 Simultaneous Inlet/Exhaust Sampling

The gas collection system and the electrical power (disposal system) plant operated by Pacific Energy is operating under an SCAQMD permit to operate, an SCAQMD permit for the collection system, and a power plant permit. These permits are managed by the SCAQMD Landfill Group. Information regarding inlet and exhaust analytical data is routinely submitted to SCAQMD by Pacific Energy. We hereby refer to SCAQMD files regarding that information.

C.6 Report Requirements

This report constitutes the initial Rule 1150.1 Compliance Plan report for Penrose Landfill.

As the initial quarterly report the required annual requirements 8.0 are included below.

1. Pacific Energy's power plant is the only facility operating on the property.

2. No wastes materials have been deposited in the landfill during this reporting period.

3. The total material deposited in Penrose Landfill to date is estimated at 14 million tons.

4. A contour map with the landfill boundary is included in Exhibit A. Trash extends throughout the site to within 10 feet of the property line, except along the south property line where trash is approximately 50 feet north of the property line and at the northeast and southwest corners of the site as shown.

5. The collection system and the electrical power (disposal system) plant operated by Pacific Energy is operating under an SCAQMD permit to operate, an SCAQMD permit for the collection system, and a power plant permit. These permits are managed by the SCAQMD Landfill Group. Historical information regarding flow rates and information necessary for estimating future rates should be available from SCAQMD files regarding those permits.

6. As-built and modification diagrams should be available from SCAQMD file regarding the permits referenced above.

D. CONCURRENT COMPLIANCE EFFORTS

Based on the current monitoring and laboratory results, mitigation measures are being implement as ordered by Rule 1150.1 Compliance Plan requirements 2.6, 3.6, and 4.3. Follow-up sampling and analytical analyses will be accomplished as required by Rule 1150.1.

E. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Sepich Associates, Inc.

REGISTERED PROFESSIONAL ENGINEER
JOHN E. SEPICH
NO. C 37509
JUN. 30 1996
CIVIL
STATE OF CALIFORNIA

John Sepich, P.E.
President

J152rept.601/atf

(1 copy submitted)

Distribution: Los Angeles By-Products Company

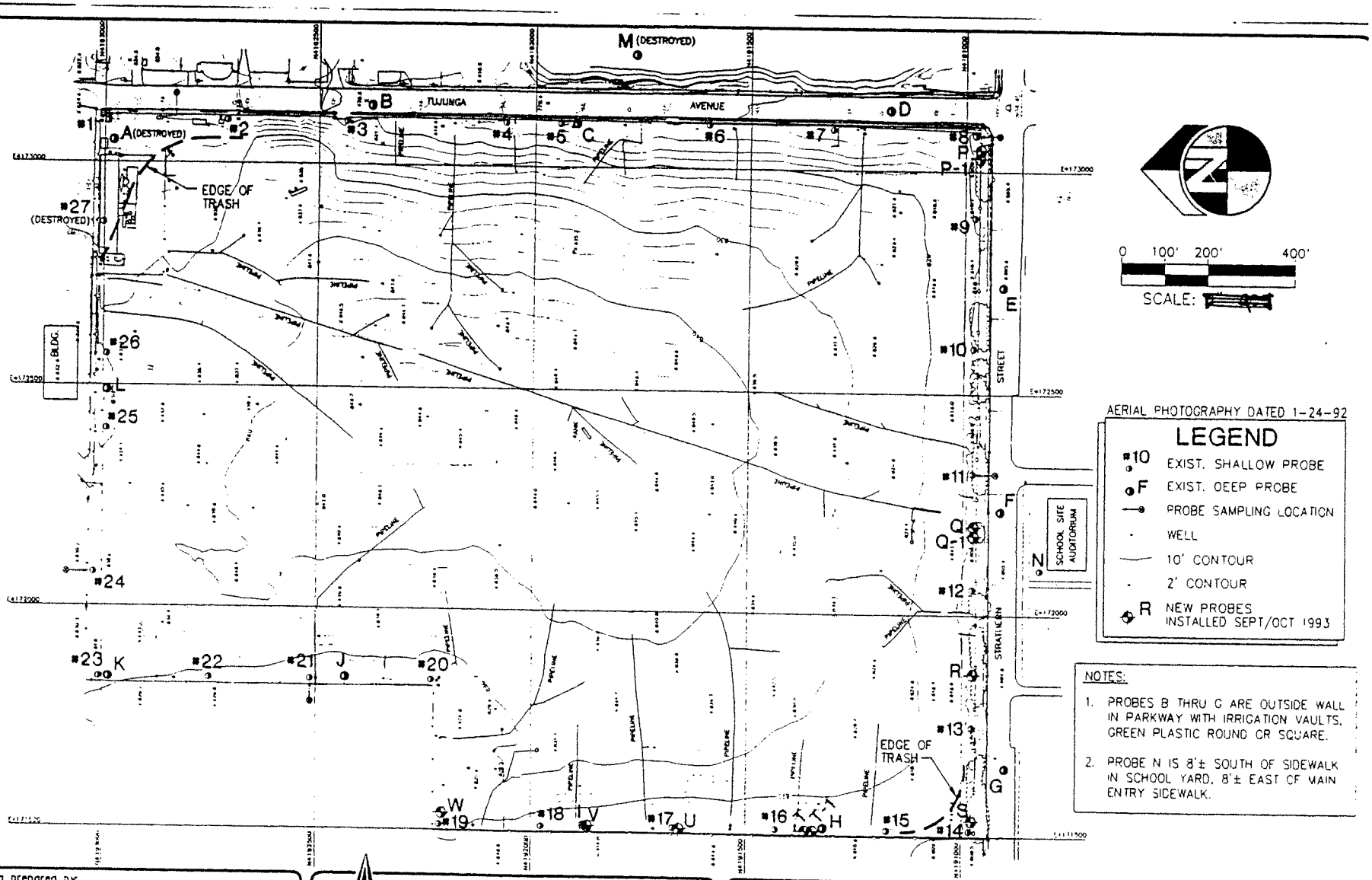
- Mr. Mike McAllister

Enclosures:

- EXHIBIT A: Penrose Landfill - Probe Location Map
- EXHIBIT B: Penrose Landfill - New Probe Data
- EXHIBIT C: Core Group Toxic Air Contaminants
- EXHIBIT D: Traverse Grids and Schematic Diagram of Integrated Surface Sampler
- EXHIBIT E: Field Data - Fourth Quarter, 1993
- EXHIBIT F: Laboratory Analytical Results - Fourth Quarter, 1993

EXHIBIT A

Penrose Landfill - Probe Location Map



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Public Facilities Branch / SCAQMD January 14, 1994

EXHIBIT B

Penrose Landfill - New Probe Data

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PETROSE LANDFILL

J152-6
9 22 93

by Alex T. Fenelt
Calif. RG #4433

BORING LOG

NAME BORING #P

Layne Rig #455 (CME 95) w/ 8" Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry, brown				0
Boulder/ Cobbles			PLUG	5'
SAND with Silt, some Gravel, moist, green gray			#3 SAND	10'
				15'
SAND, very fine to very coarse, moist, green gray to blue gray				20'
				25'
Common Gravel and Cobble layers with some Boulders				30'
			PLUG	35'
			#3 SAND	40'
brown 43' - 49'				45'
SAND, as above, blue gray				50'
				55'
				60'
				65'
				70'
Cobbles, Gravel, and Boulders with some sand			PLUG	75'
			#3 SAND	80'
REFUSAL at 82'			82'	
			Depth to bottoms of gas probes 10.0' 40.0' 80.0'	85'
				90'
				95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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PENROSE LANDFILL

J152 6
10 2 93

BORING LOG

by Alex T. Fenchel
Calif. RG #4433

NAME BORING # P-1
(9' West of Boring P)

Layne Rig #404 (AP1000) w/ 9" dia. Air Hammer

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry, light brown		PLUG 3.0'		0
SAND with Silt, some Gravel, moist, green gray				5' 10' 15'
SAND, very fine to very coarse, moist, green gray to blue gray.				20' 25'
common Gravel and Cobble layers with some Boulders				30' 35' 40'
brown 43'-49'				45'
SAND, as above, blue gray				50' 55' 60' 65'
SAND, Gravel and Cobbles				70'
Cobbles, Gravel, and Boulders		84.0' PLUG 86.7'		75' 80' 85' 90' 95' 100'
Cobbles, Gravel, and Boulders with some thin brown Sand layers		116.5' PLUG 118.3' #3 SAND 120.2'		105' 110' 115' 120'
		122.0' TOTAL DEPTH		125'
		Depth to bottom of gas probe 120.0'		130' 135' 140' 145' 150' 155' 160' 165' 170' 175' 180' 185' 190' 195' 200'

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PENROSE LANDFILL

J152-6
9 22 93

by Alex T. Feucht
Calif. RG #4433

BORING LOG

NAME BORING #Q

Layne Rig #455 (CME 95) w/ 8" dia. Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT with Gravel, dry, brown				0
SAND with Gravel, very fine to very coarse, moist, green gray			6.5' PLUG; 7.8' #3 SAND	5'
				10'
occasional Gravel and Cobble layers				15'
				20'
				25'
				30'
				35'
SAND, as above			PLUG; 38.0' #3 SAND	40'
				45'
				50'
				55'
				60'
				65'
Cobbles, Boulders, and Gravel with Sand			PLUG; 72.4' #3 SAND	70'
REFUSAL at 75'			75.0' TOTAL DEPTH	75'
			Depths to bottoms of gas probes 10.0' 40.0' 75.0'	80'
				85'
				90'
				95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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PENROSE LANDFILL

J152-6
10 04 93

by Alex T. Feucht
Calif. RG #4433

BORING LOG

NAME BORING # Q-1
(10' West of Boring Q)

Layne Rig # 404 (AP 1000) w/ 9" dia. AIR Hammer

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry brown			PLUG 5.0'	5'
SAND, fine to coarse, some Gravel, moist, blue gray				10'
occasional Gravel and Cobble layers				15'
				20'
				25'
SILTY CLAY, blue gray to olive brown				30'
				35'
SAND with Gravel, very fine to very coarse, moist, light blue gray to green gray				40'
				45'
occasional Gravel, Cobble, and Boulder layers				50'
				55'
				60'
				65'
SAND below 70' is brown				70'
				75'
Cobbles, Boulders, and Gravel with some thin Sand layers			83.0' PLUG 85.0'	80'
				85'
				90'
				95'
				100'
Cobbles, Boulders, and Gravel with occasional thin Sand layers			115.8' PLUG 117.0' #3 SAND 119.0'	105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
SAND, as above				150'
Cobbles			154.0' PLUG 156.0' #3 SAND	155'
			157.6' TOTAL DEPTH	160'
				165'
			DEPTH to bottom of gas probes	170'
				175'
			119.0'	
			157.5'	180'
				185'
				190'
				195'
				200'

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PENROSE LANDFILL

J152 6
10 5/6 93

by Alex T. Feurbst
Calif. RG # 4433

BORING LOG

NAME BORING # R

Layne Rig # 404 (AP1000) w/9" dia. Air Hammer

DESCRIPTION	NOTES
SANDY SILT, dry	
SAND, Silty, moist, brown	
SAND, very fine to very Coarse, some Gravel, moist gray (with slight blue tint)	
cobble layer	
SAND, as above	
olive gray zone	
SAND, as above, gray with slight blue tint	
SAND, as above, gray brown	
Cobbles, Gravel and Boulders with thin SAND layers	
Cobbles, Boulders, Gravel	
Cobbles, Boulders, and Gravel with thin Sand layers	
120' TOTAL DEPTH	
Depths to bottoms of gas probes	
9.8'	
39.8'	
79.7'	
118.2'	

LITHOLOGY / PROBE/WELL

PLUG 2.5'
6.0'
PLUG 8.3'
#3 SAND 9.8'
36.0'
PLUG 38.3'
#3 SAND 40.0'
77.0'
PLUG 78.0'
#3 SAND 79.9'
85.0'
PLUG 87.0'
114.2'
PLUG 115.7'
#3 SAND 118.4'

DEPTH: 5', 10', 15', 20', 25', 30', 35', 40', 45', 50', 55', 60', 65', 70', 75', 80', 85', 90', 95', 100', 105', 110', 115', 120', 125', 130', 135', 140', 145', 150', 155', 160', 165', 170', 175', 180', 185', 190', 195', 200'

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PERIMETER LANDFILL

J152 6
10 5 93

BORING LOG

by Alan T. Fendt
Calif. RG #4433

NAME BORING # S

Layne Rig # 404 (AP1000) w/ 9" dia. Air Hammer

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SAND, very fine to medium, dry, brown some silt		PLUG 2.5'		5'
		6.0' PLUG 8.3'		
SAND, very fine to coarse, moist, brown, some Gravel and Cobbles		#3 SAND 10.2'		10'
				15'
SAND, as above, yellow brown				20'
				25'
				30'
occasional Gravel and Cobble layers		36.7' PLUG 38.0' #3 SAND 40.0'		35'
				40'
				45'
				50'
				55'
				60'
SAND, very fine to very coarse, gray brown, with Gravel, Cobble and Boulder layers				65'
				70'
		76.7' PLUG 78.0' #3 SAND 80.0'		75'
Cobbles, Boulders, and Gravel				80'
		83.5' PLUG 87.0'		85'
				90'
				95'
				100'
Cobbles, Boulders, and Gravel with thin Sand layers				105'
				110'
		114.8' PLUG 116.7' #3 SAND 118.8'		115'
				120'
			120.0' TOTAL DEPTH	125'
			Depths to bottoms of gas probes 10.0' 39.8' 79.8' 118.6'	130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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PENROSE LANDFILL

J152-6
10 12 93

by Alex T. Fenlit
Calif. RG #4433

BORING LOG

NAME BORING #T

Layne Rig #D-34 (B-61XD) 8" dia. Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry, brown		PLUG 3.0'		0
		7.3'		5'
SILTY SAND, with Gravel, dry, brown		PLUG 8.5' #3 SAND 10.2'		10'
GRAVELLY SAND, very fine to very coarse, with Silt, dry, brown				15'
				20'
SAND, very fine to very coarse, with Gravel, some Cobbles, moist, brown		31.0' PLUG 34.5' SLOUGH 38.0' #3 SAND 40.2'		25'
				30'
				35'
				40'
SAND, as above				45'
				50'
				55'
				60'
SAND, as above				65'
Cobbles, Gravel and Boulders, with SAND, moist, brown		70.5' PLUG 73.0' #3 SAND 76.5'		70'
				75'
REFUSAL at 76.5'		Depths to bottoms of gas probes 10.0' 39.9' 76.2' deep probe rose 3' to 73.0'		80'
				85'
				90'
				95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

CONFIDENTIAL

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 FAX: (818) 707-3012

PETROSE LANDFILL

J152 G
10 12 93

by Alex T. Feucht
Calif. RG #4433

BORING LOG

NAME BORING # T-1
(5.5' South of Boring # T)

Layne Rig # D-34 (B-61XD) w/ 8" dia. Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry, brown			PLUG 2.0'	0
				5'
SILTY SAND, with Gravel, dry, brown				10'
GRAVELLY SAND, very fine to very coarse, with Silt, dry, brown				15'
				20'
SAND, very fine to very coarse, with Gravel, some Cobbles, moist, brown				25'
				30'
				35'
				40'
				45'
SAND, as above				50'
				55'
				60'
SAND, as above			64.1' PLUG 65.4' #3 SAND	65'
				70'
Cobbles, Gravel, and Boulders			72.4'	
				75'
REFUSAL at 72.5'			Depth to bottom of gas probe 72.1'	80'
				85'
				90'
				95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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PENROSE LANDFILL

J152-6
10 11 93

BORING LOG

by Alex T. Feucht
Calif. RG # 4433

NAME BORING #U

Layne Rig # D-34 (B-61XD) w/ 8" dia. Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SILT, Sandy, dry, brown,		PLUG 4'		0
		6.7' PLUG 8'		5'
SAND, Silty, dry, brown		#3 SAND 10.2'		10'
SAND, with Gravel, moist well graded, brown, very fine to very coarse grained				15'
				20'
				25'
SAND, as above, olive gray to light blue gray		33.8' PLUG 25'		30'
		#3 SAND 38'		35'
				40'
				45'
				50'
SAND, as above, light blue gray				55'
				60'
		64.3' PLUG 66.8'		65'
		#3 SAND w/ some slough 71.5'		70'
COBBLES				
Refusal at 72'		72' TOTAL DEPTH		75'
		Depths to bottom of gas probes 10.0' 37.3' 71.3'		80'
				85'
				90'
				95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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PETIROSI LANDFILL

J152-6
10 11 93

by Alex T. Fecht
Calif. RG # 4433

BORING LOG

NAME BORING # V

Layne Rig # D-34 (B-61XD) w/ 8" dia. Hollow Stem Auger

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SANDY SILT, dry, brown			PLUG 3.6'	5'
			6.7' PLUG 8.5'	
			#3 SAND 10.2'	10'
SILTY SAND, slightly moist, brown				15'
SAND, very fine to very coarse, slightly silty at the top, some Gravel, moist, gray brown at top changing to olive grey at 30 feet, slight bluish tint 30-70 feet.				20'
				25'
				30'
			34.3' PLUG 37.7'	35'
			#3 SAND 40.4'	40'
				45'
				50'
				55'
				60'
SAND, as above				65'
			67.0' PLUG 69.8'	70'
Cobbles, Gravel & Boulders			#3 SAND 73.5'	
Refusal at 74'			74' TOTAL DEPTH	75'
			Depths to bottoms of gas probes 10.0' 40.0' 73.5'	80'
				85'
				90'
				95'
				100'

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
				105'
				110'
				115'
				120'
				125'
				130'
				135'
				140'
				145'
				150'
				155'
				160'
				165'
				170'
				175'
				180'
				185'
				190'
				195'
				200'

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PENROSE LANDFILL

J152-6
10 01 93

by Alex T. Fouchet
Calif. R.G #4433

BORING LOG

NAME BORING #W

Layne Rig #404 (AP1000) w/9" dia. Air Hammer

DESCRIPTION	LITHOLOGY	PROBE/WELL	NOTES	DEPTH
SAND, very fine to coarse, well graded, dry, brown, some Gravel, some Silt			PLUG 4'	0
			7.0' PLUG	5'
			8' #3 SAND 10.2'	10'
				15'
SAND with Gravel, very fine to very coarse, moist, occasional Gravel, cobble and boulder layers				20'
				25'
				30'
			34.7' PLUG 36' #3 SAND 37.8'	35'
				40'
				45'
				50'
				55'
				60'
				65'
				70'
Cobbles, Boulders, and Gravel			74.5' PLUG 76.0' #3 SAND 78.2'	75'
SAND, poorly graded, brown				80'
Cobbles, Boulders, and Gravel				85'
				90'
				95'
				100'
Cobbles, Boulders, and Gravel			115.2' PLUG 116.5' #3 SAND 118.5'	105'
				110'
				115'
				120'
				125'
				130'
				135'
occasional thin Sand layers				140'
				145'
				150'
			154.5' PLUG 156.5' #3 SAND	155'
			158.4' TOTAL DEPTH	160'
				165'
			Depths to bottom of gas probes 10.0' 37.6' 78.0' 118.0' 158.0'	170'
				175'
				180'
				185'
				190'
				195'
				200'

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EXHIBIT C

Core Group Toxic Air Contaminants

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TABLE I: TOXIC AIR CONTAMINANTS -- CORE GROUP

1. Acetonitrile CH_3CN
2. Benzene C_6H_6
3. Benzyl Chloride $C_6H_5CH_2Cl$
4. Chlorobenzene C_6H_5Cl
5. Dichlorobenzene $C_6H_4Cl_2$
6. 1,1 Dichloroethane (Ethylidene Chloride) CH_3CHCl_2
7. 1,2 Dichloroethane (Ethylene Dichloride) $ClCH_2CH_2Cl$
8. 1,1 Dichloroethene (Vinylidene Chloride) $CH_2:CCl_2$
9. Dichloromethane (Methylene Chloride) CH_2Cl_2
10. Hydrogen Sulfide H_2S
11. Tetrachloroethylene (Perchloroethylene) $Cl_2C:CCl_2$
12. Tetrachloromethane (Carbon Tetrachloride) CCl_4
13. Toluene $C_6H_5CH_3$
14. 1,1,1 Trichloroethane (Methyl Chloroform) CH_3CCl_3
15. Trichloroethylene $CHCl:CCl_2$
16. Trichloromethane (Chloroform) $CHCl_3$
17. Vinyl Chloride $CH_2:CHCl$
18. Xylene $C_6H_4(CH_3)_2$

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EXHIBIT D

Traverse Grid Maps

002776

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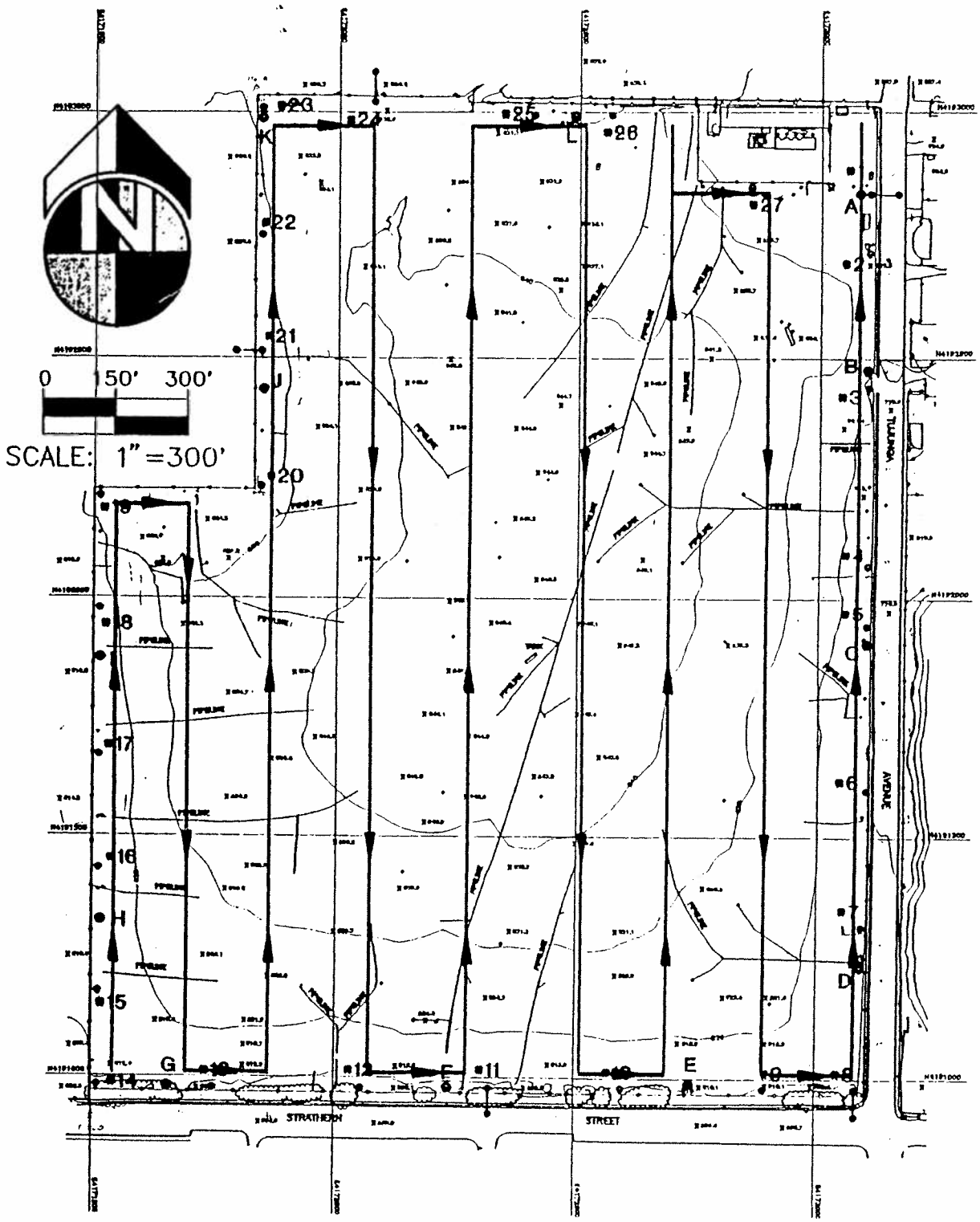
INSTANTANEOUS SURFACE MONITORING



PATH A

Drawing prepared by:

SEPICH ASSOCIATES, Inc.
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For:

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

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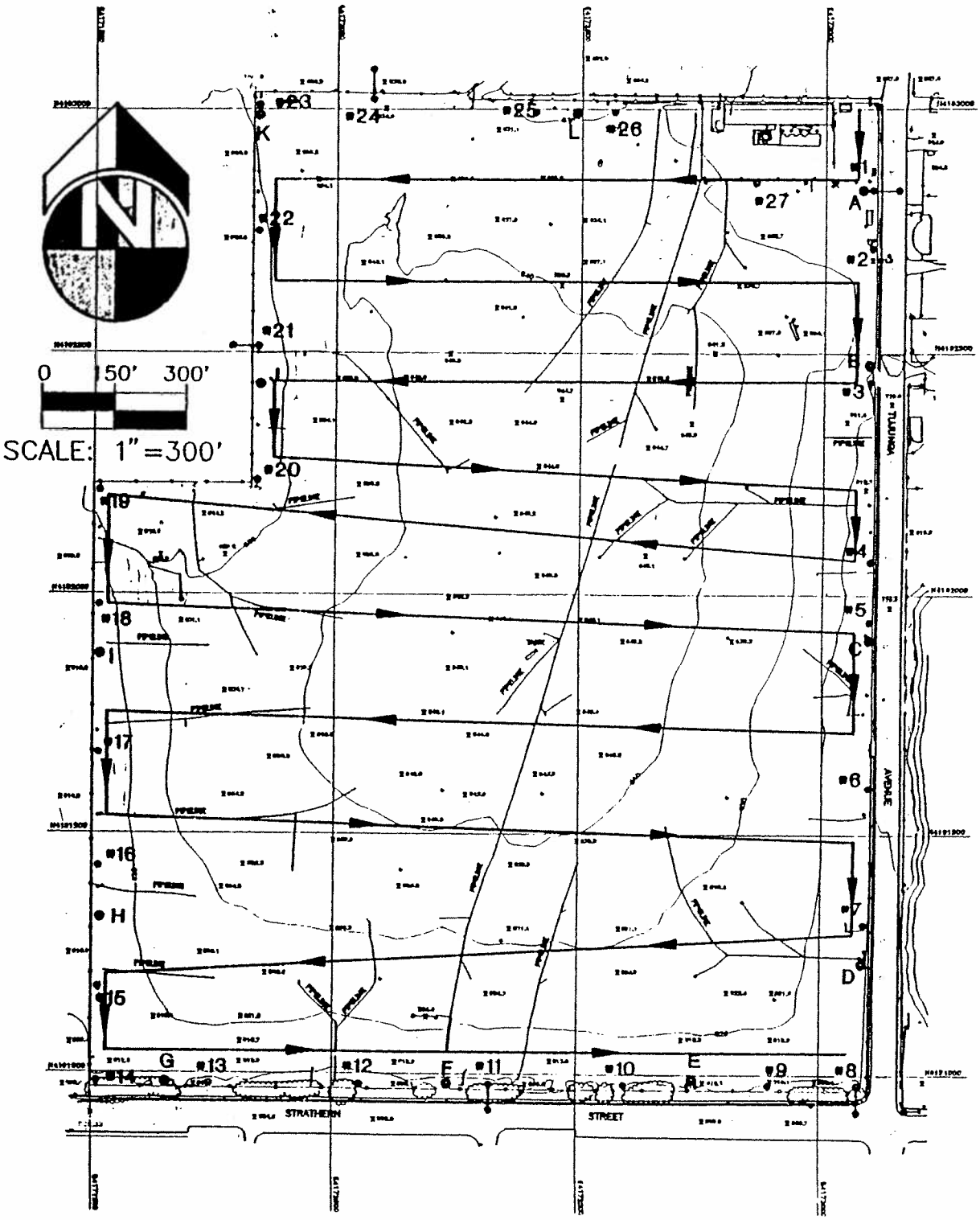
INSTANTANLOUS SURFACL MONITORING



PATH B

Drawing prepared by:

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EXHIBIT E

Field Data - Fourth Quarter, 1993 / EXHIBIT A

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9115-5:00

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8087

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 10/20/92

INSPECTION REPORT

CLIMATE: bright / clear / fog — cloudy / overcast / rain — <32° F / 33°-55° / 56°-70° — 71°-85° / 86°-100° / >100° F — still / breeze / wind — dry / moderate / humid

LOCATION: PERIMETER PROBES

PURPOSE: MONITOR WITH HFK

CONTRACTOR(S): L.A. BY-PRODUCTS: SCOTT, BOB MCCALLISTER
SEPICH ASSOC: JEFF KUNGER
OTHERS: ALEX FOUCHT

REMARKS: • PROBES 1 THRU 27 ARE TYPICALLY VERY SHALLOW - 1 TO 2 FEET DEEP. THEY ARE 1/2" PLUMBING PIPE DRIVEN INTO GROUND WITH A SLEDGE HAMMER AND ARE NOT CAPPED. • PROBE "27" NOT FOUND ON MAP. • SEE "GAS CONCENTRATIONS" LOG FOR FINDINGS. • UNABLE TO MONITOR "N" LOCATED AT SCHOOL. WILL MONITOR 10-23-92.

• RECOMMENDATIONS: TO HELP PRESERVE AND IDENTIFY PROBES, I SUGGEST EACH LOCATION BE MARKED WITH A WOODEN WIRE POST, PAINTED A BRIGHT COLOR, AND EQUIPPED WITH A PLACARD IDENTIFYING THE PROBE #.

☐ REINSPECTION REQUIRED

INSPECTOR

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Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 11/20/93

Job # J150

GAS CONCENTRATIONS

INITIALS	[illegible]	JK
TIME	10:15	AF
INSTRUMENT	HPK	
PARAMETER	CH4	

REMARKS: (1) All CH4 readings are in %. Lower are 1% switch on 0-4% scale. Higher: 2 switch on 0-100% scale. (2) Need probes P, Q, R, S, T, U, V and W

PROBE #		
1 (1')	Ø	
2 (1')	Ø	
3 (1')	Ø	
4 (1')	Ø	
5 (1')	Ø	
6 (1')	Ø	Blocking 1'
7 (1')	Ø	Block 1'
8 (1')	Ø	Water
9 (1')	Ø	Block - 1'
10 (1')	Ø	Block 1'
11 (>5')	Ø	>5'
12 (>5')	Ø	>5'
13	Ø	Blocked 1.5
14	Ø	>5'
15	Ø	BLOCKED AT 1.0'
16	Ø	>5'
17	Ø	BLOCKED AT 0.5'
18	Ø	BLOCKED AT 0.5
19	Ø	>5'
20	Ø	O_2 SPIKE >25%
21	0.1	>5'
22	Ø	BLOCKED AT 1'
23	Ø	BLOCKED AT 1.5'
24	Ø	>5'
25	Ø	1.5' [illegible]
26	Ø	BLOCKED AT 2.5'
27	UNDER CONCRETE SLAB AT CHANNEL	

PROBE #			
A		DESTROYED	
B		Ø	
C	GREEN-21'	Ø	
	YELLOW-41'	Ø	
	ORANGE-61'	23%	100-% SCALE
	RED-81'	Ø	
D	STEADY	1-3% @ 1%	SPIKE AT 12%
E		Ø	18% O_2
F		1.5	5% O_2
G		Ø	5% O_2
H		Ø	
I	GREEN-17'	CAPPED	FLOOD
	YELLOW-37'	CAPPED	FLOOD
	ORANGE-57'	Ø	
	RED-77'	CAPPED	FLOOD
J		Ø	
K		Ø	IN THE CACTUS
L	GREEN-45'	PROBE BURIED AT GRADE	5' FROM FENCE
	YELLOW-65'	Ø	6' EAST OF BLDG CORNER
	ORANGE-85'	Ø	
	RED-105'	Ø	
M		BURIED PER LA BY PROD.	
N	GREEN-22'	Ø	19% O_2
	YELLOW-45'	Ø	8% O_2
	ORANGE-68'	Ø	2% O_2
	RED-90'	Ø	
P	10'	15%	
	40'	[illegible]	
	80'	[illegible]	
P-1	120'	Ø	

PROBE #			
Q	10'	13%	
	40'	[illegible]	
	75'	0.25%	
Q-1	120'	0.2%	
	158'	3%	
R	10'	[illegible]	
	40'	5%	
	80'	3.2%	
	120'	[illegible]	
S	10'	Ø	
	40'	7.5%	
	80'	Ø	
	120'	Ø	
T	10'	0.15%	
	40'	1.6%	
	73'	5.0E4%	
T-1	72'	2.8E-7%	
U	10'	0.5%	
	37'	26%	
	68'	3%	
V	10'	0.7%	
	40'	17%	100% SCALE
	73'	Ø	
W	10'	Ø	
	40'	0.1%	
	80'	0.2%	
	120'	0.8%	
	158'	0.3%	

REMARKS (3) None of Probes [illegible] N [illegible] (4) [illegible]

Form prepared by: SEPICH ASSOCIATES, Inc. METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362
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FAX: (818) 707-3012 (805) 373-8987

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9:00-3:00 6.0 HRS.

REPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3030 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8867

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 10/25/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain | <32' F, 33'-55', 56'-70', 71'-85', 86'-100', >100' F | still, breeze, wind | dry, moderate, humid

WORK AREA: METHANE GAS PROBE READINGS / OFFICE

CONTRACTOR(S), PERSONS ON SITE:
PACIFIC ENERGY (TONY)
L.A. BY-PRODUCTS (MARTIN)

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
■ MONITOR PROBES	○	●
☐	○	○
☐	○	○
☐	○	○

REMARKS: • OBTAINED THE ASSISTANCE OF MARTIN AND TONY TO LOCATE PROBES NOT FOUND ON 10-22-93, AND TO DETERMINE WHICH PROBES HAVE BEEN DESTROYED OR OTHERWISE LOST. • TOOK HPK READINGS OF REMAINING PROBES. UPDATED GAS CONCENTRATION REPORT. • REVIEWED REPORT WITH J. SZPICH AND UPDATED OUR MAP TO REFLECT ACCURATE LOCATIONS AND STATUS OF ALL PROBES INSTALLED TO DATE.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?)

INSPECTOR

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9:30-5:30 8.0 HRS.

SEPICH ASSOCIATES, Inc.
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 10/29/93

INSPECTION REPORT

CLIMATE: bright; (clear) fog; cloudy; overcast; rain

<32° F; 33°-55°; (56°-70°); 71°-85°; 86°-100°; >100° F

still; (breeze) wind

dry; (moderate) humid

LOCATION:

PURPOSE: COMPLIANCE WITH AQMD RULE 1150.1 PARTICULARLY SECTIONS 9.2, 9.3 AND 9.4

CONTRACTOR(S):

REMARKS: • FOXBORO OVA, MODEL: CENTURY 128. SET AT 1X SCALE ALARM SET AT 5 PPM. RESPONSE TIME IS APPROX. 2 SECONDS.
11:00 — BEGIN SWEEP AND FOLLOW GRID PER SEPICH ASSOC PATH-A.
2:30 - COMPLETED PATH-A. AS NOTED ON MAP, THERE IS ONLY ONE WELL WHICH READ OVER 500 PPM (100X SCALE). ~~OTHER~~ 500 PPM + ZONES ARE:

SEE LOCATIONS ON 2ND PAGE PLAN

1. ALONG THE SOUTH BOUNDARY, EASTERN END, AT SETTLEMENT CRACKS
2. ALONG EAST BOUNDARY IN THE VICINITY OF PROBE 6, AT SETTLEMENT CRACKS
3. AT SETTLEMENT CRACK DUE WEST OF LANDFILL SECONDARY GATE
4. AT LARGE POTHOLES ADJACENT TO PIPELINE IN N.E. QUADRANT.
5. AT WELL #E

500 LBS. OF HYDROGEN CONSUMED. COMBINED DISTANCE OF PATHS A AND B IS APPROX. 6 MILES AND DOES NOT INCLUDE SIDETRACKING TO WELLS, NOR IRREGULAR PATHS DUE TO LACK OF LANDMARKS.

LA Bypro. H_2 supply cylinder down too low for good recharge. Brought OVA to Sepich Associates office to recharge from higher pressure H_2 cylinder there.

☒ REINSPECTION REQUIRED AFTER 500 ppm SOURCES ARE FIXED.

INSPECTOR

PRINCIPAL

SHEET OF

002783

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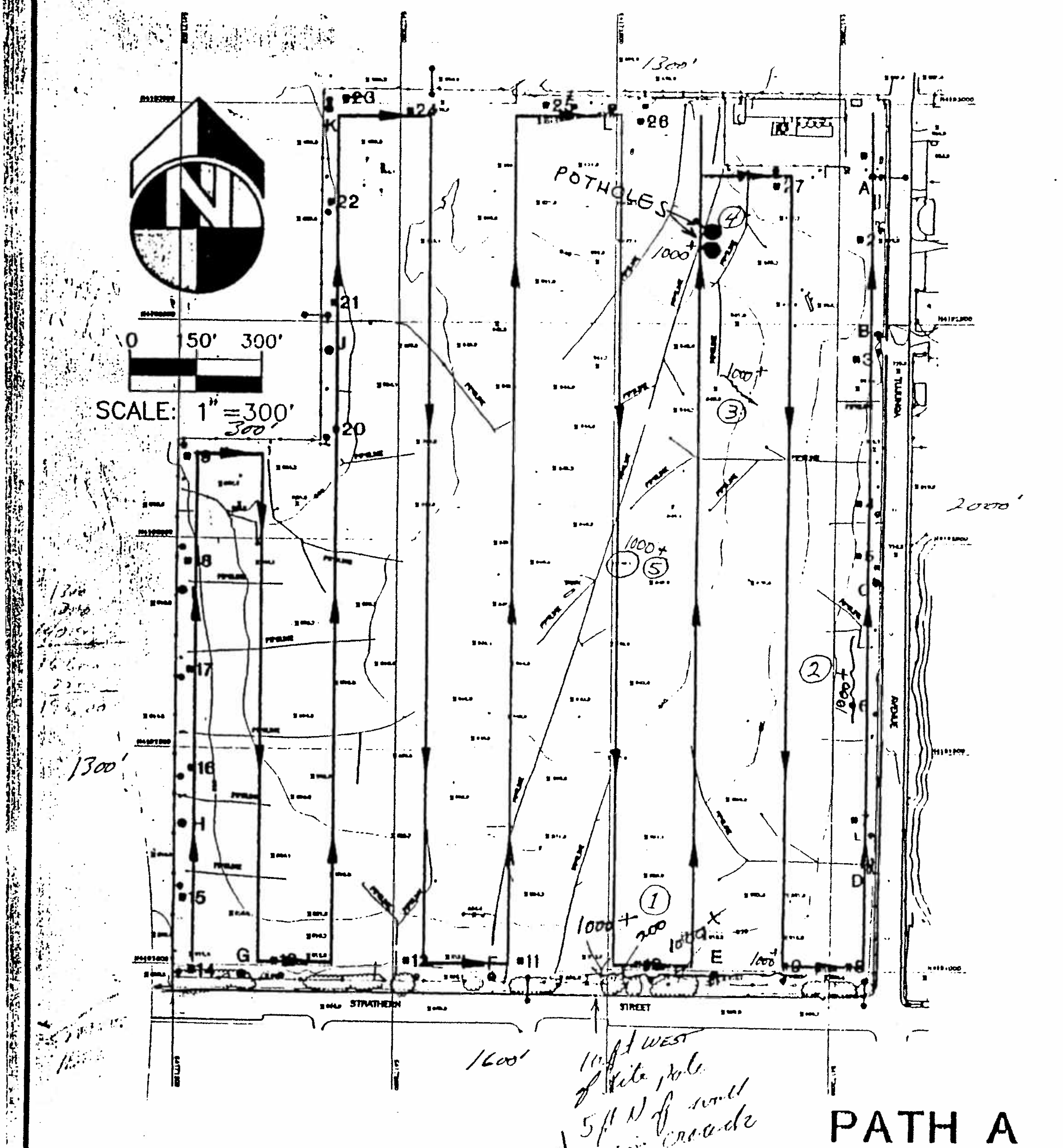
INSTANTANLOUS SURFACL MONITORING



PATH A

Drawing prepared by:

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For:

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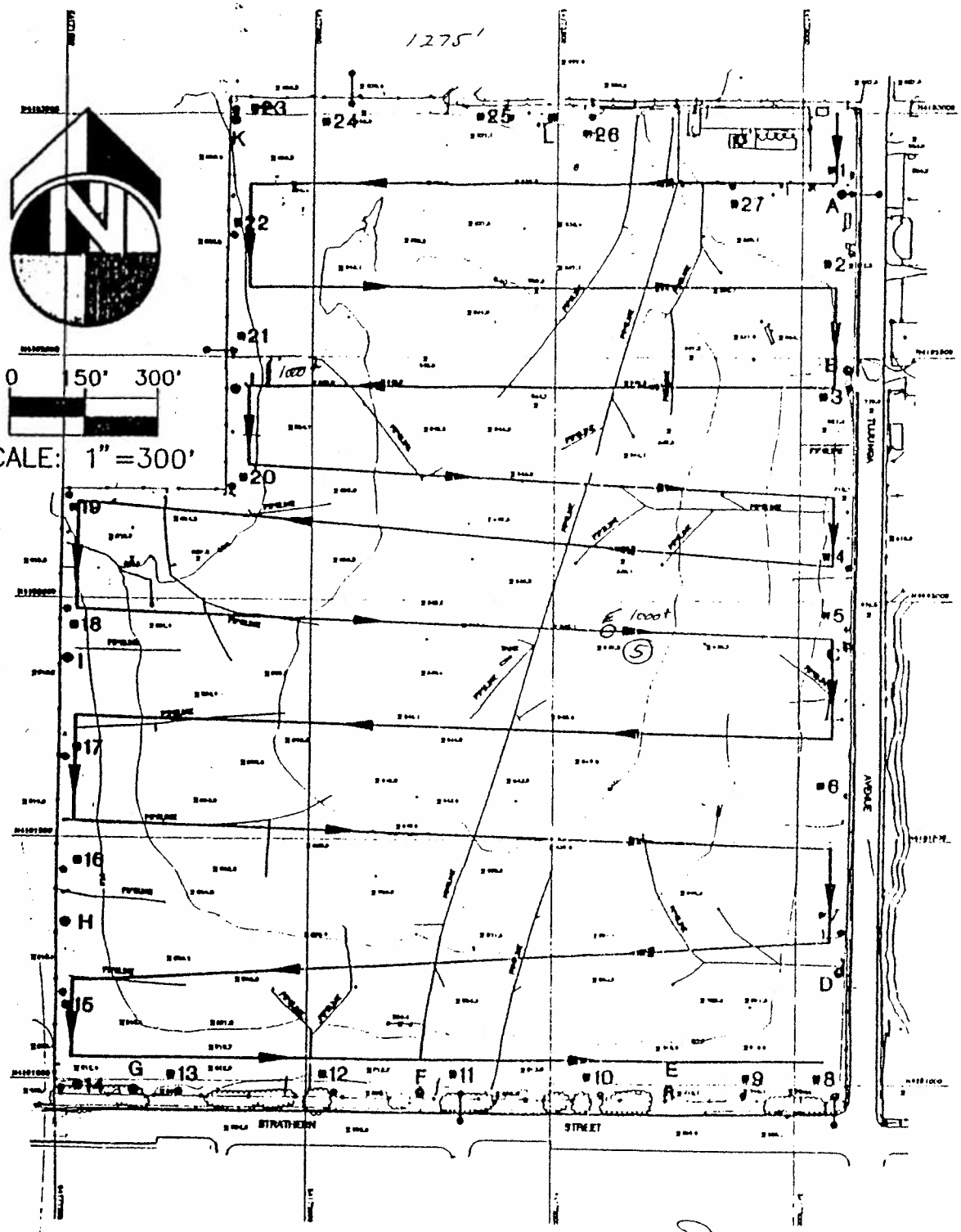
INSTANTANLOUS SURFACL MONITORIN



10-29-93 PATH B

Drawing prepared by:

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For:

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SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
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WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-6967

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 11/10/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still	dry
clear	overcast	33°-55°	86°-100°	breeze	moderate
fog	rain	56°-70°	>100° F	wind	humid

WORK AREA: _____

CONTRACTOR(S), PERSONS ON SITE

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS:
- MET W/ J. SEPICH AT LA BREA AND SAN VICENTE TO PICK UP TEDLAR BAGS AND COMPLETE CONSTRUCTION OF VACCOM BOX.
- 9:00 SAMPLED AIR INTO 1 LITER BAGS AT:
  1.) C-61
  2.) P-40
  3.) Q-45
  4.) U-68 (PACIFIC ENERGY DETECTED 50% L.E.L. YESTERDAY)
  5.) PACIFIC ENERGY PLANT SUPPLY GAS FROM PENROSE
- TOOK SAMPLES TO PERFORMANCE ANALYTICAL, CANOGA PARK SEE CHAIN OF CUSTODY LETTER.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION. (AT WHAT STAGE OF WORK ?) _____

INSPECTOR

OF ___

002786

CONFIDENTIAL

7:00-8:00 1.0 Hrs

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 11/12/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE: bright, cloudy, clear, overcast, fog, rain | <32° F, 71°-85°, 33°-55°, 86°-100°, 56°-70°, >100° F | still, breeze, wind | dry, moderate, humid

WORK AREA: INTEGRATED SURFACE SAMPLING

CONTRACTOR(S), PERSONS ON SITE
SCOTT
BOB MCCALLISTER

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS: • WIND IS IN EXCESS OF 5 MPH. SAMPLING POSTPONED TO TUESDAY, 11-16-93 @ 7Am

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?)

INSPECTOR

PRINCIPAL

002787

CONFIDENTIA

1.0 HRS.

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 11/12/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still	dry
clear	overcast	33°-55°	86°-100°	breeze	moderate
fog	rain	56°-70°	>100° F	wind	humid

WORK AREA: AQMD INTEGRATED SURFACE SAMPLING

CONTRACTOR(S), PERSONS ON SITE

BOB McCALLISTER

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS: WIND SPEED AT LANDFILL IS IN EXCESS OF 5 MPH. SAMPLES CANNOT BE TAKEN PER RULE 1150.1. SAMPLING RESCHEDULED FOR TUESDAY, NOV. 16.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?)

INSPECTOR

OF

002788

CONFIDENTIA

0150-1:50 2:00-2:20 2.5 HRS.

REPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-9987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 11/16/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still	dry
clear	overcast	33°-55°	86°-100°	breeze	moderate
fog	rain	56°-70°	>100° F	wind	humid

WORK AREA: _____

CONTRACTOR(S), PERSONS ON SITE

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS: • MET WITH SCOTT, L.A. B.P., AT STRATHERN DALY HOUSE. WIND AT PENROSE IN EXCESS OF 5 MPH (7.5 FT/SECOND). ABANDONED EFFORT TO MAKE INTEGRATED SURFACE SWEEP 1:45 - TEL. CALL TO MARTIN CONFIRMS THAT IT IS STILL WINDY AT PENROSE. • DELIVERED LABP'S EMPTY HYDROGEN BOTTLE TO PATTERSON INDUSTRIAL GAS, CUCAMONGA, AND PICKED UP NEW BOTTLE. GAS CHARGED TO LABP'S ACCOUNT.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?) _____

INSPECTOR

PRINCIPAL

OF

CONFIDENTIAL

8:30 – 10:00 1.5

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J 152-6

DATE 11/18/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°–85°	still	dry
clear	overcast	33°–55°	86°–100°	breeze	moderate
fog	rain	56°–70°	>100° F	wind	humid

WORK AREA: _____

CONTRACTOR(S), PERSONS ON SITE

SCOTT
ADEL
MARTY

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
☐	○	○
☐	○	○
☐	○	○

REMARKS: • BEGAN INTEGRATED SURFACE SAMPLING. BEFORE FIRST 10 LITRE BAG WAS FILLED, WINDS EXCEEDED 5 MPH. EFFORT TO CONTINUE WAS ABANDONED.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?) _____

INSPECTOR

PRINC

002790

CONFIDENTIAL

9:00 – 11:30 **PENROSE** 4.5

BRIGH ASSOCIATES, INC.
METHANE SPECIALISTS
3017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8087

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J-152-6

DATE 12/14/94

METHANE SYSTEM INSPECTION REPORT

CLIMATE: bright, clear, fog, (cloudy), overcast, rain

52°F, (33°–55°), 56°–70°, 71°–85°, 86°–100°, >100°F

(still), breeze, wind

dry, (moderate), humid

WORK AREA: INSTANTANEOUS SURFACE MONITORING (ISM)

CONTRACTOR(S), PERSONS ON SITE
SCOTT
KENNETH
ABEL

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
O INSPECT VENT PIPING	O	O
O INSPECT MEMBRANE	O	O
O INSPECT ELECTRONIC SYSTEM	O	O
O INSPECT MECHANICAL SYSTEM	O	O
O INSPECT PROBE CONSTRUCTION	O	O
O MONITOR PROBES	O	O
O	O	O
O	O	O
O	O	O

REMARKS: * USING FOXBORO CENTURY 12 [illegible] V.A. INSTALLED BATTERY [illegible] HAS BEEN ON CHARGER FOR SEVERAL [illegible] FILLED [illegible] ALARM SET @ 5 SCALE SET @ 1X. • 7:40 BEGAN ISM ON PATH-A. LAST RAINFALL WAS 12-11-93 • 9:45 - BREEZY. • 10:40 - COMPLETED ISM. ONLY ONE LOCATION > 500 PPM AT S.W. CORNER, AS NOTED ON MAP.

O NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?) _____

INSPECTOR _____ PRINCIPAL _____

002791

CONFIDENTIAL

12:30 – 3:30 3:0

REFISH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3034 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8687

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J152-6

DATE 12/17/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE: bright / (clear) / fog; cloudy / overcast / rain; <32° F / 33°–55° / (56°–70°) / 71°–85° / 86°–100° / >100° F; still / (breeze) / wind; dry / (moderate) / humid

WORK AREA: MONITOR PROBES W/ HPK

CONTRACTOR(S), PERSONS ON SITE
SCOTT
ABEL

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
■ MONITOR PROBES	○	●
☐	○	○
☐	○	○
☐	○	○

REMARKS: • MONITORED PROBES PER RULE 1150.1 (7.2) WITH DETARACH MODEL HPK. EACH PROBE MONITORED FOR A MINIMUM OF ONE (1) MINUTE. • PROBES #P, Q ARE PROTECTED BY 12" Φ PVC TUBING AND CAP. • 3:30 – PROBES 1 THRU 14, AND P, P-1, Q, Q-1, R AND S HAVE BEEN MONITORED AND RECORDED.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?)

INSPECTOR PRINCIPAL

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
Tel (213) 233-4179 Fax (213) 233-4170

PENROSE LANDFILL

Date 12/17/93
Job # J152-6

GAS CONCENTRATIONS

INITIALS	HBA	HBA
TIME	13:00	15:00
INSTRUMENT	HPK	HPK
PARAMETER	100%	[redacted]%
PROBE #	CH4	O2
1	ND	21.0
2	ND	21.0
3	ND	20.0
4	ND	20.0
5	ND	21.0
6	ND	21.0
7	ND	20.5
8	/	18.0
9	/	18.0
10	/	20.0
11	ND	21.0
12	ND	20.0
13	0.5	18.0
14	ND	21.0
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27	DESTROYED	

REMARKS: DECEMBER 1993
AQMD 1150.1 COMPLIANCE

PROBE #		CH4	O2
A		DESTROYED	
* B			
* C	GREEN-21'		
	YELLOW-41'		
	ORANGE-61'		
	RED-81'		
* D			
* E			
* F			
* G			
H			
I	GREEN-17'		
	YELLOW-37'		
	ORANGE-57'		
	RED-77'		
J			
K			
L	GREEN-45'		
	YELLOW-65'		
	ORANGE-85'		
	RED-105'		
M		DESTROYED	
* N	GREEN-22'		
	YELLOW-46'		
	ORANGE-68'		
	RED-90'		
P	10'	10	17.0
	40'	12	17.0
	80'	3	19.5
P-1	120'	2	19.0

PROBE #		CH4	O2
Q	10'	8	16.0
	40'	10	19.0
	75'	3	18.5
Q-1	120'	0.5	19.0
	158'	ND	21.0
R	10'	0.5	20.0
	40'	1	16.0
	80'	ND	21.0
	120'	ND	21.0
S	10'	ND	21.0
	40'	ND	21.0
	80'	1	20.0
	120'	ND	21.0
T	10'		
	40'		
	73'		
T-1	72'		
U	10'		
	37'		
	68'		
V	10'		
	40'		
	73'		
W	10'		
	40'		
	80'		
	120'		
	158'		

Form prepared by: METHANE SPECIALISTS 3617 E. THOUSAND OAKS BLVD. #303 WESTLAKE VILLAGE, CA. 91362 TEL: (818) 707-3038 (805) 373-8321 FAX: (818) 707-3012 (805) 373-8987

CONFIDENTIAL

8:45-2:45 PENROSE 6.0

REPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3039 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J-152-6

DATE 12/20/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE:

bright	cloudy	<32° F	71°-85°	still		dry	
(clear)	overcast	33°-55°	86°-100°	(breeze)		(moderate)	
fog	rain	(56°-70°)	>100° F	wind		humid	

WORK AREA: MONITOR PERIMETER PROBES

CONTRACTOR(S), PERSONS ON SITE

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
■ MONITOR PROBES	○	●
☐	○	○
☐	○	○
☐	○	○

REMARKS: CONTINUATION OF PERIMETER PROBE MONITORING BEGUN 12-17-93.
• TOOK TEDLAR BAG SAMPLE FROM PLANT INPUT PIPELINE.
HPK @ 100%: 15 CH_4, 15.5 O_2. LSC #HS267: 65 PPM-H_2S
• MANY OF THE PROBES ARE DIFFICULT TO LOCATE. RECOMMEND A STANDARD, BRIGHT COLORED PLACARD TO IDENTIFY PROBE LOCATIONS, AND BRASS I.D. TAGS ON EACH PROBE TUBE. • READINGS AT SHALLOW (NUMBERED) PROBES MAY BE RESULTING FROM RECENT RAINS (2 WEEKS) WHICH WOULD HAVE A SEALING EFFECT AT TOP SOIL. • AT PROBE-N, THE RED TYGON TUBE BREAKS EASILY, AS DOES THE GREEN, BUT NOT SO EASILY. • THE 5 HIGHEST READINGS ARE: P-40 (12%), P-10 (10%), Q-40 (10%), Q-10 (8%), I-COMB (5%)
• COMPLETED MONITORING AT 1:30.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION.
(AT WHAT STAGE OF WORK ?) _____

INSPECTOR _____ PRINCIPAL _____

002794

CONFIDENTIAL

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE LANDFILL

Date 12/17/93 12/20/93

Job # J152-6

GAS CONCENTRATIONS

INITIALS	HBA	HBA
TIME	13:00	15:00
INSTRUMENT	HPK	HPK
PARAMETER	100%	%

REMARKS: DECEMBER 1993 AQMD 1150.1 COMPLIANCE

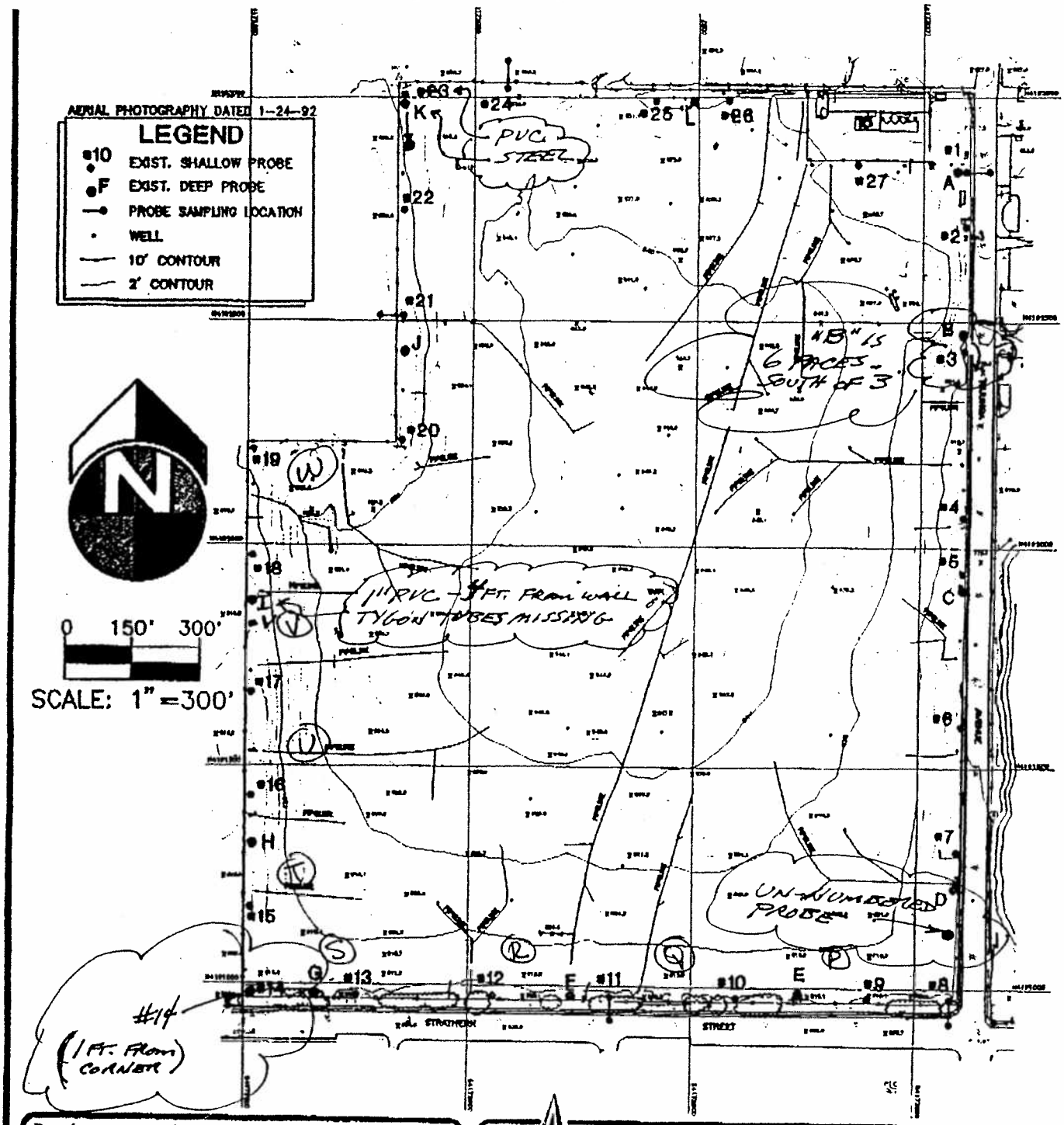
PROBE #	CH4	O2
1	ND	21.0
2	ND	21.0
3	ND	20.0
4	ND	20.0
5	ND	21.0
6	ND	21.0
7	ND	20.5
8	1	18.0
9	1	18.0
10	1	20.0
11	ND	21.0
12	ND	20.0
13	0.5	18.0
14	ND	21.0
15	ND	21.0
16	ND	21.0
17	0.5	20.5
18	ND	21.0
19	ND	21.0
20	ND	21.0
21	ND	21.0
22	ND	21.0
23	ND	21.0
24	ND	21.0
25	ND	21.0
26	ND	21.0
27	DESTROYED	

PROBE #		CH4	O2
A		DESTROYED	
* B		1	18.0
* C	GREEN-21'	ND	21.0
	YELLOW-41'	ND	21.0
	ORANGE-61'	1	16.0
	RED-81'	ND	21.0
* D		1	19.0
* E		ND	20.2
* F		1	17.7
* G		2	15.0
H		1	20.7
I	GREEN-17'	only 1/4" pvc exists	
	YELLOW-37'	5	15.0
	ORANGE-57'	no LA Method	
	RED-77'	1 1/4" tubes	
J		ND	21.0
K		ND	21.0
L	GREEN-45'	1	19.0
	YELLOW-65'	ND	21.0
	ORANGE-85'	ND	21.0
	RED-105'	ND	21.0
M		DESTROYED	
SCH N	GREEN-22'	ND	21.0
	YELLOW-46'	1	18.5
	ORANGE-68'	1	19.0
	RED-90'	1.5	18.5
P	10'	10	17.0
	40'	12	17.0
	80'	3	19.5
P-1	120'	2	19.0

PROBE #		CH4	O2
Q	10'	8	16.0
	40'	10	17.0
	75'	3	18.5
Q-1	120'	0.5	19.0
	158'	ND	21.0
R	10'	0.5	20.0
	40'	1	18.0
	80'	ND	21.0
	120'	ND	21.0
S	10'	ND	21.0
	40'	ND	21.0
	80'	1	20.0
	120'	ND	21.0
T	10'	ND	21.0
	40'	ND	21.0
	73'	ND	21.0
T-1	72'	ND	21.0
U	10'	ND	21.0
	37'	ND	21.0
	68'	ND	21.0
V	10'	ND	21.0
	40'	ND	21.0
	73'	ND	21.0
W	10'	ND	21.0
	40'	ND	21.0
	80'	ND	21.0
	120'	ND	21.0
	158'	ND	21.0

METHANE SPECIALISTS & WESTLAKE VILLAGE, CA. (818) 707-3036 (805) 373-9321 FAX: (818) 707-3012 (805) 373-8887

CONFIDENTIA



Drawing prepared by:

SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

For:

Los Angeles By-Products Co.
Incorporated 1925
1810 East 25th ST., Los Angeles, CA 90058
Tel: (213) 233-4175 Fax: (213) 233-4170

PENROSE PIT

WELL AND PROBE LOCATIONS

CONFIDENTIA

7:30-5:30 10.0

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3017 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8687

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No. J-152-6

DATE 12/21/93

METHANE SYSTEM INSPECTION REPORT

CLIMATE: bright, clear, fog, cloudy, overcast, rain; <32° F, 33°-55°, 56°-70°, 71°-85°, 86°-100°, >100° F; still, breeze, wind; dry, moderate, humid

WORK AREA: > 5% CH4 PROBES / Integrated Surface Sampling

CONTRACTOR(S), PERSONS ON SITE

INSPECTION ACTIVITIES	ACCEPTABLE	SEE REMARKS
☐ INSPECT VENT PIPING	○	○
☐ INSPECT MEMBRANE	○	○
☐ INSPECT ELECTRONIC SYSTEM	○	○
☐ INSPECT MECHANICAL SYSTEM	○	○
☐ INSPECT PROBE CONSTRUCTION	○	○
☐ MONITOR PROBES	○	○
■ COLLECT 10 L AIR SAMPLES	○	●
☐	○	○
☐	○	○

REMARKS: • 8:30 - BEGAN > 5% CH4 PROBE MONITORING AND AIR SAMPLING INCLUDING PLANT SUPPLY LINE. COMPLETED WORK AT 11:30 • PREPARED EQUIPMENT FOR INTEGRATED SURFACE SAMPLING. • 2:15 - BEGAN I.S.S. - SEE ATTACHED MAP FOR LOCATIONS. 4:55 - COMPLETED I.S.S. - 5 ZONES.

☐ NOTIFY CONTRACTOR TO CALL FOR REINSPECTION. (AT WHAT STAGE OF WORK ?)

INSPECTOR

PRINCIPAL

CONFIDENTIA

SEPICH ASSOCIATES, Inc.
METHANE SPECIALISTS
3617 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3038 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8867

JOB NAME: L.A. BY-PRODUCTS PENROSE LANDFILL

JOB No.: J-152-6

GAS CONCENTRATIONS

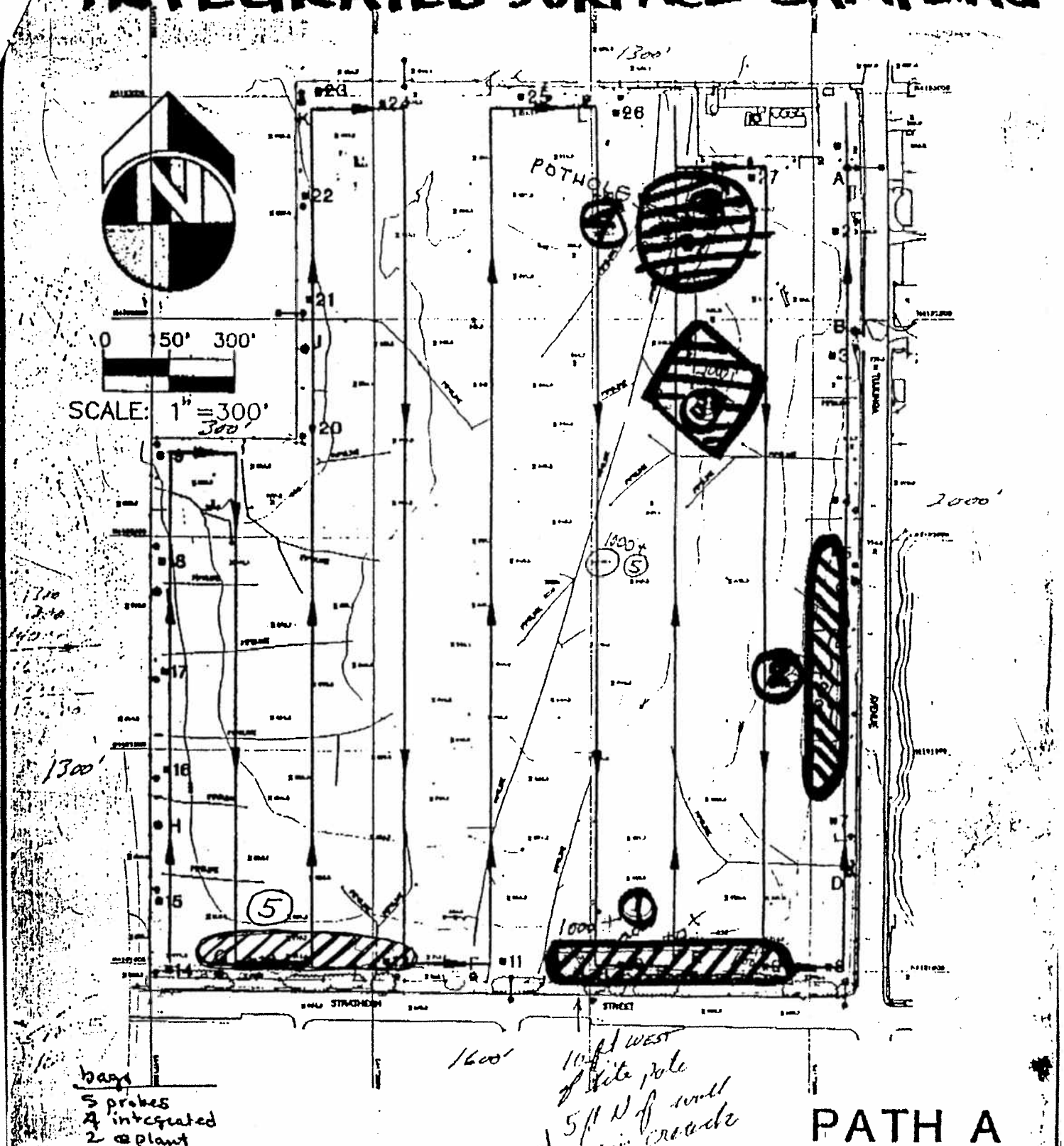
DATE	12/21/93	12/21/93	12/21/93				REMARKS
TIME	08:30	08:30	08:30				
INITIALS	HBA	HBA	HBA				
INSTRUMENT	HPK 100%	HPK 100%	HS 267				
PARAMETER	CH4	O2	H2S				
P-40 FT.	30	09.0	000				10 LITRE SAMPLE
P-10 FT.	16	15.5	000				" " "
Q-40 FT.	8	17.0	000				" " "
Q-10 FT.	27	11.5	000				" " "
I-COMBINED	Ø	21.0	000				NO SAMPLE TAKEN*
PLANT INLET	45	02.0	099				10 LITRE SAMPLE

* PLANT HAS BEEN PULLING GAS "HARD" FROM THIS ZONE, PER TONY, PACIFIC ENERGY

SHEET__OF__

CONFIDENTIAL

~~INSTANTANEOUS SURFACE MONITORING~~
INTEGRATED SURFACE SAMPLING



Drawing prepared by:
SEPICH ASSOCIATES, Inc.
3817 E. THOUSAND OAKS BLVD. #303
WESTLAKE VILLAGE, CA. 91362
TEL: (818) 707-3036 (805) 373-9321
FAX: (818) 707-3012 (805) 373-8987

For:

Los Angeles By-Products Co.
Incorporated 1925
1811 East 25th St., Los Angeles, CA 90058
Tel: (213) 233-4101 Fax: (213) 233-4120

CONFIDENTIAL

EXHIBIT F

Laboratory Analytical Results - Fourth Quarter, 1993

CONFIDENTIAL

Performance Analytical Inc.
Environmental Testing and Consulting

LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	11/18/93
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	11/10/93
	Westlake Village, CA 91362	PAI Project No:	5786
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose Landfill		

Five (5) Tedlar Bag Samples labeled:

"PAC-Energy-In" "C-61" "P-40"
"Q-45" "U-68"

The samples were received at the laboratory under chain of custody on November 10, 1993. The samples were received intact. The samples were analyzed on November 10, 1993.

Methane Analysis

One of the samples was analyzed for Methane according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

The other samples were analyzed for Methane using a gas chromatograph equipped with a thermal conductivity detector (GC/TCD).

The results of analyses are included on the attached data sheet.

Data Release Authorization:

Sharon L. Gibson
Analytical Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

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RESULTS OF METHANE ANALYSIS

Client: Sepich Associates

Client Project ID: Penrose Landfill
PAI Project ID: #5786

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bag
Date Received: 11/10/93
Date Analyzed: 11/10/93

Client Sample ID	PAI Sample ID	Methane Concentration in ppm, v/v	
		Result	Detection Limit
C-61 (11/10/93) (09:45)	9304448	230	0.50
C-61 (11/10/93) (09:45)	Lab Duplicate	230	0.50
N/A (11/10/93)	Method Blank	ND	0.50

ND = Not Detected - Less Than Indicated Detection Limit

RESULTS OF FIXED GASES ANALYSIS

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Sharon Gibson
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 11/10/93
Date Analyzed: 11/10/93

Client Sample ID	PAI Sample ID	Methane (%, v/v)	
		Result	Detection Limit
PAC-ENERGY-IN (11/10/93)	9304447	42.5	0.0200
P-40 (11/10/93) (10:00)	9304449	43.9	0.0200
Q-45 (11/10/93) (10:15)	9304450	37.6	0.0200
U-68 (11/10/93) (10:30)	9304451	49.1	0.0200
U-68 (11/10/93) (10:30)	Lab Duplicate	49.0	0.0200
N/A (11/10/93)	Method Blank	ND	0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	ANALYSES	PAI Project No.
SEPICH ASSOCIATES	818-707-3036 3617 E. THOUSAND OAKS WESTLAKE VILLAGE		5786
Project Location: PENROSE LANDFILL	Client Project No.		
Contact: JOHN SEPICH OR HUGH AVERY	Sampler (Signature): [signature]	P.O. No.	

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	CH4						Expected Turnaround Time	Remarks
✓ PAC-ENERGY-IN	11-10-93	09:30	9304447		✓							
✓ C-61	11-10-93	09:45	9304448		✓							
✓ P-40	11-10-93	10:00	9304449		✓							
✓ Q-45	11-10-93	10:15	9304450		✓							
✓ U-68	11-10-93	10:30	9304451		✓							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	11-10-93	12:12	[signature]	11/10/93	12:12
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Disposal Method					
Disposed by: (Signature)	Date	Time			

White Copy : Accompanies Samples

Yellow Copy : Sampler

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TABLE 1 SUMMARY OF ANALYTICAL RESULTS

SUMMARY OF ANALYTICAL RESULTS										
SAMPLE / CONSTITUENT (Units)[2]	P-10	P-40	Q-10	Q-40	ISS-1	ISS-2	ISS-3	ISS-4	ISS-5	PLANT INLET
Methane (% V/V)[3]	43.6	42.7	41.6	33.3	0.00026	0.00023	0.00023	0.00021	0.00034	42.6
NMHC (% V/V)	0.13	0.24	0.14	0.21	0.00075	0.00047	0.00066	0.00053	0.00043	0.73
Vinyl Chloride	<99	3700	1900	1200	<2.0	<2.0	<2.0	<2.0	<2.0	<1200
1,1-Dichloroethene	<64	<64	<64	<64	<1.3	<1.3	<1.3	<1.3	<1.3	<790
Methylene Chloride	<73	<73	<73	<73	2.2	2.1	2.1	2.3	3.1	2,900
1,1-Dichloroethane	51 TR	<62	<62	<62	<1.2	<1.2	<1.2	<1.2	<1.2	<770
Chloroform	<52	<52	<52	<52	<1.0	<1.0	<1.0	<1.0	<1.0	<640
1,2-Dichloroethane	<62	<62	<62	<62	<1.2	<1.2	<1.2	<1.2	<1.2	<770
1,1,1-Trichloroethane	<46	<46	<46	<42	3.2	3.1	3.1	3.0	2.8	<570
Benzene	980	290	1100	210	23	20	29	16	25	2,000
Carbon Tetrachloride	<40	<40	<40	<40	<0.80	<0.80	<0.80	<0.80	<0.80	<500
Trichloroethene	<47	65	<47	92	<0.94	<0.94	0.54 TR	1.4	<0.94	<580
Toluene	<66	82	190	75	31	33	40	32	43	31,000
Tetrachloroethene	<37	<37	<37	<37	1.9	<0.75	3.4	5.6	2.0	250 TR
Chlorobenzene	1800	7900	1100	1300	<1.1	<1.1	<1.1	<1.1	<1.1	1,400
Total Xylenes	520	66	1200	69	28	33	39	35	28	32,000
1,3-Dichlorobenzene	<42	<42	<42	<42	<0.84	<0.84	<0.84	<0.84	<0.84	<520
1,4-Dichlorobenzene	530	680	1500	850	<0.84	<0.84	<0.84	<0.84	<0.84	660
1,2-Dichlorobenzene	<42	<42	160	<42	<0.84	<0.84	<0.84	<0.84	<0.84	<520
Benzyl Chloride	<49	<49	<49	<49	<0.97	<0.97	<0.97	<0.97	<0.97	<600

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SUMMARY OF ANALYTICAL RESULTS										
SAMPLE / CONSTITUENT (Units)[2]	P-10	P-40	Q-10	Q-40	ISS-1	ISS-2	ISS-3	ISS-4	ISS-5	PLANT INLET
Hydrogen (% V/V)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2
Oxygen (% V/V)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.218
Nitrogen (% V/V)	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.0
Carbon Monoxide (% V/V)	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2
Carbon Dioxide (% V/V)	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.2

NOTES:

1. Sample designations P and Q correspond to vapor probes P and Q. The numbers 10 and 40 correspond to the screen depths of the particular vapor probes from which the samples were collected. ISS = Integrated surface samples.
2. All analytical results are in parts per billion (ppb) except where noted.
3. % V/V = volume percent of constituent.
4. < = less than the detection limit given.
5. NMHC = non-methane hydrocarbons.
6. TR = trace level below indicated detection limit.
7. NA = sample was not analyzed for the constituent.

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LABORATORY REPORT

Client:	SEPICH ASSOCIATES	Date of Report:	01/04/93
Address:	3617 E. Thousand Oaks Blvd., Suite 303	Date Received:	12/22/93
	Westlake Village, CA 91362	PAI Project No:	5945
Contact:	Mr. John Sepich	Purchase Order:	Verbal
Project ID:	Penrose Landfill #J-152-6		

Ten (10) Tedlar Bags labeled:

"P-10"	"P-40"	"Q-10"	"Q-40"	"ISS-1"
"ISS-2"	"ISS-3"	"ISS-4"	"ISS-5"	"Plant Inlet"

The samples were received at the laboratory under chain of custody on December 22, 1993. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

SCAQMD Method 25.2 Analysis

The samples were analyzed for Methane and Total Gaseous Non-Methane Organics according to SCAQMD Method 25.2. The analyses were performed using gas chromatography/flame ionization detection/total combustion analysis.

Fixed Gases Analysis

One of the Tedlar Bag samples and were analyzed for Fixed Gases (Hydrogen, Oxygen, Nitrogen, Carbon Monoxide, Methane and Carbon Dioxide) and some of the samples were analyzed for Methane using a Hewlett Packard Model 5890 gas chromatograph equipped with a thermal conductivity detector (TCD).

Data Release Authorization:

Kathleen Aguilera

Kathleen Aguilera
Analytical Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

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Volatile Organic Compound Analysis

The samples were also analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The method was modified for using Tedlar Bags. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/ cryogenic concentration. The instrumentation used for sample analysis was comprised of a Finnigan Model 4500 GC/MS/DS interfaced to an Entech 2000 automated whole air inlet system/cryogenic concentrator. A thick film (5 micron), crossbonded 100% Dimethylpolysiloxane megabore column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are included on the attached data sheets.

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RESULTS OF METHANE &

TOTAL GASEOUS NON-METHANE ORGANICS (TGNMO) ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #5945

Test Code: (FID/TCA)/SCAQMD Method 25.2
Instrument ID: HP 5890A/FID #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 12/22/93
Date Analyzed: 12/22/93

Client Sample ID	PAI Sample ID	Concentration in ppm, v/v	
		Methane	Total Non-Methane Organics (as Methane)
P-10 (12/21/93)	9305218	N/A	1300
P-40 (12/21/93)	9305219	N/A	2400
Q-10 (12/21/93)	9305220	N/A	1400
Q-40 (12/21/93)	9305221	N/A	2100
ISS-1 (12/21/93)	9305222	2.6	7.5
ISS-2 (12/21/93)	9305223	2.3	4.7
ISS-3 (12/21/93)	9305224	2.3	6.6
ISS-4 (12/21/93)	9305225	2.1	5.3
ISS-5 (12/21/93)	9305226	3.4	4.3
Plant Inlet (12/21/93)	9305227	N/A	7300
Plant Inlet (12/21/93)	Lab Duplicate	N/A	7600
N/A (12/22/93)	Method Blank	ND < 0.50	ND < 1.0

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #5945

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bags
Date Received: 12/22/93
Date Analyzed: 12/22/93

Client Sample ID	PAI Sample ID	Methane (%, v/v) Result	Detection Limit
P-10 (12/21/93)	9305218	43.6	0.200
P-40 (12/21/93)	9305219	42.7	0.200
Q-10 (12/21/93)	9305220	41.6	0.200
Q-40 (12/21/93)	9305221	33.3	0.200
N/A (12/22/93)	Method Blank	ND	0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF FIXED GASES ANALYSIS

Client: Sepich Associates

Client Project ID: #J-152-6
PAI Project ID: #5945

Test Code: GC/TCD
Instrument ID: HP 5890A/TCD #1
Analyst: Ku-Jih Chen
Verified By: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/22/93

Client Sample ID	PAI Sample ID	Hydrogen (%, v/v)	Oxygen (%, v/v)	Nitrogen (%, v/v)
Plant Inlet	9305227	ND < 0.200	0.218	18.0
Plant Inlet	Lab Duplicate	ND < 0.200	0.326	18.2
N/A (12/22/93)	Method Blank	ND < 0.0200	ND < 0.0300	ND < 0.100

ND = Not Detected - Less Than Indicated Detection Limit

Client Sample ID	PAI Sample ID	Carbon Monoxide (%, v/v)	Methane (%, v/v)	Carbon Dioxide (%, v/v)
Plant Inlet	9305227	ND < 0.200	42.6	39.2
Plant Inlet	Lab Duplicate	ND < 0.200	42.2	39.3
N/A (12/22/93)	Method Blank	ND < 0.0200	ND < 0.0200	ND < 0.0200

ND = Not Detected - Less Than Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/~~MS Mod.~~ EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 12/22/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: N/A

PAI Sample ID: PAI Method Blank

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: N/A
Date Analyzed: 12/23/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	ND	5.0	ND	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	ND	5.0	ND	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	ND	5.0	ND	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-10 (12/21/93)

PAI Sample ID: 9305218

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	250	ND	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	200 TR	250	51 TR	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	3100	250	980	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	ND	250	ND	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	8100	250	1800	55
1330-20-7	Total Xylenes	2200	250	520	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	3200	250	530	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-10 (12/21/93)

PAI Sample ID: 9305218 (Laboratory Duplicate)

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	250	ND	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	200 TR	250	51 TR	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	3200	250	990	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	ND	250	ND	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	8300	250	1800	55
1330-20-7	Total Xylenes	2200	250	520	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	3200	250	540	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: P-40 (12/21/93)

PAI Sample ID: 9305219

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	9400	250	3700	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	920	250	290	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	340	250	65	47
108-88-3	Toluene	310	250	82	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	36000	250	7900	55
1330-20-7	Total Xylenes	290	250	66	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	4100	250	680	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-10 (12/21/93)

PAI Sample ID: ~~9305~~220

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	4800	250	1900	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	3500	250	1100	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	ND	250	ND	47
108-88-3	Toluene	700	250	190	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	4900	250	1100	55
1330-20-7	Total Xylenes	5200	250	1200	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	9200	250	1500	42
95-50-1	1,2-Dichlorobenzene	950	250	160	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Q-40 (12/21/93)

PAI Sample ID: 9305221

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 0.020 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	3100	250	1200	99
75-35-4	1,1-Dichloroethene	ND	250	ND	64
75-09-2	Methylene Chloride	ND	250	ND	73
75-34-3	1,1-Dichloroethane	ND	250	ND	62
67-66-3	Chloroform	ND	250	ND	52
107-06-2	1,2-Dichloroethane	ND	250	ND	62
71-55-6	1,1,1-Trichloroethane	ND	250	ND	46
71-43-2	Benzene	680	250	210	78
56-23-5	Carbon Tetrachloride	ND	250	ND	40
79-01-6	Trichloroethene	490	250	92	47
108-88-3	Toluene	280	250	75	66
12-18-4	Tetrachloroethene	ND	250	ND	37
108-90-7	Chlorobenzene	6100	250	1300	55
1330-20-7	Total Xylenes	300	250	69	58
541-34-5	1,3-Dichlorobenzene	ND	250	ND	42
106-73-1	1,4-Dichlorobenzene	5100	250	850	42
95-50-1	1,2-Dichlorobenzene	ND	250	ND	42
100-44-7	Benzyl Chloride	ND	250	ND	49

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-1 (12/21/93)

PAI Sample ID: 9305222

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/22/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	7.5	5.0	2.2	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	17	5.0	3.2	0.93
71-43-2	Benzene	73	5.0	23	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	120	5.0	31	1.3
12-18-4	Tetrachloroethene	13	5.0	1.9	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	120	5.0	28	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

ND = Not Detected TR = Trace Level - Below Indicated Detection Limit

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-2 (12/21/93)

PAI Sample ID: 9305223

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/22/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	7.4	5.0	2.1	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	17	5.0	3.1	0.93
71-43-2	Benzene	64	5.0	20	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	130	5.0	33	1.3
12-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	140	5.0	33	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-3 (12/21/93)

PAI Sample ID: 9305224

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/22/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	7.3	5.0	2.1	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	17	5.0	3.1	0.93
71-43-2	Benzene	92	5.0	29	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	2.8 TR	5.0	0.54 TR	0.94
108-88-3	Toluene	150	5.0	40	1.3
12-18-4	Tetrachloroethene	23	5.0	3.4	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	170	5.0	39	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-4 (12/21/93)

PAI Sample ID: 9305225

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	8.0	5.0	2.3	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	16	5.0	3.0	0.93
71-43-2	Benzene	52	5.0	16	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	7.5	5.0	1.4	0.94
108-88-3	Toluene	120	5.0	32	1.3
12-18-4	Tetrachloroethene	38	5.0	5.6	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	150	5.0	35	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: ISS-5 (12/21/93)

PAI Sample ID: 9305226

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 1.00 Liter

CAS #	COMPOUND	RESULT (UG/M^3)	DETECTION LIMIT (UG/M^3)	RESULT (PPB)	DETECTION LIMIT (PPB)
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene Chloride	11	5.0	3.1	1.5
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	15	5.0	2.8	0.93
71-43-2	Benzene	81	5.0	25	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
79-01-6	Trichloroethene	ND	5.0	ND	0.94
108-88-3	Toluene	160	5.0	43	1.3
12-18-4	Tetrachloroethene	13	5.0	2.0	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
1330-20-7	Total Xylenes	120	5.0	28	1.2
541-34-5	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-73-1	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84
100-44-7	Benzyl Chloride	ND	5.0	ND	0.97

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RESULTS OF ANALYSIS

Client: Sepich Associates

Client Sample ID: Plant Inlet (12/21/93)

PAI Sample ID: 9305227

Test Code: GC/MS Mod. EPA TO-14
Analyst: Kathleen Aguilera
Instrument ID: Finnigan 4500B/Entech 2000
Verified by: Michael Tuday

Matrix: Tedlar Bag
Date Received: 12/22/93
Date Analyzed: 12/23/93
Volume Analyzed: 1.6 ml

CAS #	COMPOUND	RESULT (MG/M^3)	DETECTION LIMIT (MG/M^3)	RESULT (PPM)	DETECTION LIMIT (PPM)
75-01-4	Vinyl Chloride	ND	3.1	ND	1.2
75-35-4	1,1-Dichloroethene	ND	3.1	ND	0.79
75-09-2	Methylene Chloride	9.8	3.1	2.9	0.90
75-34-3	1,1-Dichloroethane	ND	3.1	ND	0.77
67-66-3	Chloroform	ND	3.1	ND	0.64
107-06-2	1,2-Dichloroethane	ND	3.1	ND	0.77
71-55-6	1,1,1-Trichloroethane	ND	3.1	ND	0.57
71-43-2	Benzene	6.5	3.1	2.0	0.97
56-23-5	Carbon Tetrachloride	ND	3.1	ND	0.50
79-01-6	Trichloroethene	ND	3.1	ND	0.58
108-88-3	Toluene	120	3.1	31	0.82
12-18-4	Tetrachloroethene	1.7 TR	3.1	0.25 TR	0.46
108-90-7	Chlorobenzene	6.4	3.1	1.4	0.67
1330-20-7	Total Xylenes	140	3.1	32	0.72
541-34-5	1,3-Dichlorobenzene	ND	3.1	ND	0.52
106-73-1	1,4-Dichlorobenzene	3.9	3.1	0.66	0.52
95-50-1	1,2-Dichlorobenzene	ND	3.1	ND	0.52
100-44-7	Benzyl Chloride	ND	3.1	ND	0.60

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