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Director

177 East Colorado Boulevard, Room 938
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Pacific Telesis Company

SFUND RECORDS CTR
0639-02337

September 1, 1992

AR2950

Tom Dunkelman (H-7-1)
U.S.Environmental Protection Agency, Region IX
75 Hawthorne Street
San Francisco, California 94105

Dear Mr. Dunkelman:

Re: Request for Information - Del Amo Site, Los Angeles

This letter and the enclosed documents are in response to your Request for Information dated July 20, 1992 concerning the above-referenced site pursuant to Section 104 (e) (2) of CERCLA, 42 U.S.C. §9604 (e) (2).

By way of general statements, Pacific Bell hereby responds with information that is actually known to the management employees of its Property Portfolio Management District. As Pacific Bell is a very large corporation of over 60,000 employees and many more retirees, it would be overly burdensome and oppressive to search all existing files of the corporation as well as those of its employees and former employees.

QUESTIONS AND RESPONSES

Question No. 1

Provide the address and property description (including lot and block numbers) of all properties owned or leased by your company within the area previously described as the Del Amo Site. Indicate whether your company is a current or past owner or lessee of the property described. If you are not the owner of the property described, provide the name and address of the owner.

Response to Question No. 1

19310 Pacific Gateway Drive, Los Angeles, California, more specifically described as follows:

> Lot 27 of Tract No. 4671 in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 56, pages 30 and 31 of Maps, in the Office of the County Recorder of said County, together with that portion of Rosemead Street (vacated) adjoining said Lot 27, and together with that portion of Lot 22 of sald Tract No. 4671 lying easterly of Pacific Gateway Drive as dedicated on the map of Tract No. 32036 recorded in Book 851 at pages 12, 13 and 14 of Maps, Records of said County, and together with the southerly 37 feet of Lot 26 of said Tract No. 4671, and together wit that portion of Rosemead Street (vacated) adjoining said Lot 26, and together with the southerly 37 feet of that portion of Lot 23 of said Tract No. 4671 lying easterly of said Pacific Gateway Drive.

Question No. 2

Are you aware of any environmental investigations, evaluations, sampling, or audits conducted on the property described in Question 1? If so, please describe fully and provide copies of any related documents.

Response to Question No. 2

Yes. The following is a list of reports, studies, investigations or audits which are in our possession. We enclose copies of all such documents except for the ones we have noted were done for or on behalf of the EPA, which we assume you already have in your possession.

1. Toxic Hazard Assessment of the Cadillac Fairview Properties, Pacific Gateway, Los Angeles, Ca.

   Dated: 10/15/87

   Prepared for: Hazard Management Consultants, Inc.
   P. O. Box 75
   Southborough, MA 01772

   Prepared by: Applied Geoscience Inc.
   17321 Irvine Blvd
   Tustin, CA 92680

2. Hazardous Materials Underground Storage Plan

   Dated: 1/18/89

   Prepared for: Pacific Bell
   177 E. Colorado Blvd
   Pasadena, CA 91105

   Prepared by: Converse Environmental West
   3393 E. Foothill Blvd
   Suite B
   Pasadena, CA 91107-3112
   CEW Project No. 87-41-192-01

3. Site Inspection Report

   Dated: 11-21-89

   Prepared for: Pacific Bell
   177 E. Colorado Blvd
   Pasadena, CA 91105

   Prepared by: Converse Environmental West
   CEW Project No. 87-41-192-02 (Draft)

4. Preliminary Environmental Site Asssessment

   Dated: 12-28-89

   Prepared for: Pacific Bell
   177 E. Colorado Blvd
   Pasadena, CA 91105

   Prepared by: Converse Environmental West
   CEW Project No. 89-41-636-01

5. Expanded Review of Site Specific Historical Data

   Dated: 7-24-90

   Prepared for: Pacific Bell
   177 E. Colorado Blvd
   Pasadena, CA 91105

   Prepared by: Converse Environmental West
   CEW Project No. 90-41-416-01

6. Phase II Environmental Assessment Report

   Dated: 10-5-90

   Prepared for: Pacific Bell

   Prepared by: IT Technology Corp.
   Project No. 244039

Question No. 3

Are you aware of any remedial actions or cleanup activities taken on the property described in Question 1? If so, please describe fully and provide copies of any related documents

Response to Question No. 3

Yes. (Describe remediation of hydrocarbon contamination; and provide a description of documents evidencing the remediation and cleanup.) Some fuel spillage at overflow of fuel tank. Soil was remediated, see CEW study 87-41-192-01/2

Question No. 4

Are you aware of any releases or disposal of hazardous substances, pollutants, or contaminants at the property described in Question 1 or at the Del Amo site?

Response to Question No. 4

Yes. We are aware of the matters contained in the documents identified above in response to Question No. 2 and as to the remediation referenced in response to Question No. 3.

Sincerely,

for Michael J. Williams
Director
Portfolio Management District

bv

Attachments

[redacted]

0639-0337

Copy No. 7

15 October 1987

TOXIC HAZARD ASSESSMENT OF THE CADILLAC FAIRVIEW COMPANIES PACIFIC GATEWAY CENTER LOS ANGELES, CALIFORNIA

Prepared For:

HAZARD MANAGEMENT CONSULTING, INC.
P.O. Box 75
Southborough, MA 01772

Prepared By:

Applied Geosciences Inc.
17321 Irvine Boulevard
Tustin, California 92680
(714) 838-8545

Project No. AGI1110A

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TOXIC HAZARD ASSESSMENT OF THE CADILLAC FAIRVIEW COMPANIES PACIFIC GATEWAY CENTER LOS ANGELES, CALIFORNIA

1.0 INTRODUCTION

This report presents the results of a toxic hazard assessment and preliminary field investigation for the Cadillac Fairview Companies (Cadillac) Pacific Gateway Center (site) located in the city of Los Angeles, California (Figure 1). The assessment was conducted in response to the request and authorization of Mr. John Lundblad of Hazard Management Consulting, Inc. (HMCI) and pursuant to Attachment 20 to the contract between HMCI and Applied Geosciences Inc. dated October 1986.

It is the understanding of Applied Geosciences Inc. that HMCI represents a potential buyer of Cadillac. As part of this acquisition, HMCI is conducting an environmental due-diligence toxic hazard assessment of properties owned by Cadillac in consideration of the purchase of the properties from Cadillac. Field work for the assessment was conducted by Applied Geosciences Inc. between 2 June and 24 June 1987.

2.0 OBJECTIVE

The objective of this assessment has been to assess the likelihood that potentially hazardous materials may be present on-site as a result of current and past site usage.

3.0 APPROACH

A phased approach was developed by Applied Geosciences Inc., which was designed to discover potential "fatal flaws", if any, at the site during Phase 1, and investigate these potential flaws in a second phase. Phase 1 consisted of site visits and review of readily available information from governmental agencies and others. Based upon information obtained from Phase 1 of the assessment, a Phase 2 investigation was conducted at selected facilities within the site. Phase 2 investigation included soil borings and laboratory analysis of selected soil samples.

4.0 SCOPE

The scope of services used in the approach included the following:

<u>Phase 1</u>

- Performance of site visits to assess present site use and observe the handling practices of potentially hazardous materials by current tenants;

- Review of readily available aerial photographs of the site and vicinity to assess historical land use and property development;

- Review of topographic maps and other literature as available; and,

- Review of readily available data held by government agencies concerning the site vicinity.

Phase 2

- Drilling of seven borings to provide information on subsurface conditions and collection of soil samples for laboratory analyses; and

- Laboratory analyses of selected soil samples for selected hazardous materials.

5.0 HYDROGEOLOGIC SETTING

The site is located within the West Coast Basin, part of the larger Los Angeles Coastal Basin (DWR, 1961). Physical boundaries of the West Coast Basin include the Ballona Escarpment to the northwest; the Newport-Inglewood Structural Zone to the northeast; the Palos Verdes Hills to the southwest; and the Pacific Ocean to the west and south (DWR, 1961).

Groundwater zones (aquifers) beneath the site include the Gage, Lynwood, and Silverado aquifers. The aquifers and the interbedded low permeability zones (aquitards) are part of the Lakewood and San Pedro formations of Early Pleistocene to Late Pleistocene age, respectively (DWR, 1961). These formations consist of continental and marine sediments representing several episodes of marine advances and regressions during Pleistocene time (approximately 800,000 years before the present). Locally, perched groundwater conditions may exist resulting in shallow water tables above the regional aquifers (DWR, 1961).

A perched groundwater table is reported to be present in the immediate site vicinity within the Bellflower aquitard. First groundwater occurs at a depth of approximately 65 feet below ground surface (Dames and Moore/Radian, 1984). The Bellflower aquitard is reported to act as the confining layer to the underlying Gage aquifer. First groundwater is present in beds consisting of fine to medium grained sand. The flow direction of the first groundwater is reportedly to the south-southeast (Dames and Moore/Radian, 1984). However, it is noted in Dames and Moore/Radian (1984), that slight changes in local groundwater levels may change the flow direction.

The Gage aquifer is present at an approximate depth of 120 feet below the ground surface and is estimated to be about 50 feet thick. The general flow direction in this deeper groundwater is reportedly toward the east-southeast (DWR, 1961). Groundwater in

the Gage aquifer is reported to have been degraded by historic industrial activity in the area and is not considered to be a water-producing zone for domestic uses (Woodward-Clyde Consultants (WCC), 1985).

The Lynwood aquifer is separated from the Gage aquifer by approximately 75 feet of silt and clay strata. The Lynwood aquifer occurs at a depth of approximately 250 feet below the ground surface. The Lynwood aquifer is separated from the underlying Silverado aquifer by a 175-foot thick layer of silts and clays (WCC, 1985).

The Silverado aquifer is the major water-producing formation in the area. It occurs at depths as great as 700 feet below the ground surface (WCC, 1985). The general groundwater flow direction is toward the east-northeast.

6.0 SITE DATA

In this assessment, reference to the "site" includes buildings and property owned by Cadillac within the Pacific Gateway Center, "immediate site vicinity" includes adjacent properties, and "site vicinity" includes the area surrounding the site within an approximately two-mile radius.

6.1 Site Setting

The site, for purposes of this assessment, is located in the city of Los Angeles, California. The site is located in an area bounded by 190th Street to the north, Vermont Avenue to the east, a Department of Water and Power (DWP) right-of-way to the south, and Normandie Avenue to the west (Figure 2). The site is not continuous within those major boundaries, but consists of 24 buildings on several parcels of land and one vacant lot. The site is surrounded by commercial developments, including manufacturing, industrial, and office facilities, except to the south; across the DWP right-of-way, beyond the southern boundary of the site, is the Del Amo Superfund site. The Del Amo Superfund site is located along Del Amo Boulevard between Normandie Avenue and Vermont Avenue; a residential neighborhood is located to the south of the Del Amo Boulevard site. The Del Amo site is actually a portion of the Cadillac holding and due to the complex environmental issues surrounding the Del Amo site, a separate report has been prepared by Applied Geosciences Inc. (1987) to discuss these issues. A summary of the Del Amo site is presented in Subsection 6.6.1 of this report.

6.2 Historical Review

Historical aerial photographs and United States Geological Survey (USGS) topographic maps were reviewed by Applied Geosciences Inc. personnel. These provided information concerning land use and developmental history for the site. Aerial photographs dated 1928, 30 August 1941, 22 August 1947, and 18 December 1954 from the Fairchild Aerial Photography Collection (housed at Whittier

College in Whittier, California) were reviewed; a USGS topographic map from 1964 (photorevised in 1981) was also reviewed. California Department of Health Services (DHS) records were also reviewed concerning the former use of the site as part of a synthetic rubber manufacturing facility. An enlargement of the 1954 aerial photograph is shown in Figure 4.

The aerial photographs taken in 1928 and 1941 indicate that the site was used for agricultural purposes at the time the photographs were taken. Some farm structures were present on the site. Adjacent to the southwest corner of the site was a group of above-ground tanks. What appeared to be petroleum refineries were located west and south-southeast of the site. Many above-ground tanks were associated with these off-site refineries. The area south of Del Amo Boulevard was developed with residential structures at the time of these photographs.

Interpretations of the 1947 and 1954 photographs are that the site had been developed as a large manufacturing facility at the time of those photographs. To the southwest of the site was what appeared to be a chemical manufacturing facility in the approximate location of the Montrose Chemical plant. Several portions of the site were occupied by large individual above-ground tanks or tank farms. Both facilities had numerous buildings and tanks. At the southern end of the manufacturing facility was a series of bermed ponds. This series of ponds would later constitute the Del Amo Superfund site. At the approximate location of the southwest corner of the present-day TRW Inc. facility, the ground surface appeared to have been degraded. Additionally, a rectangular area, possibly containing ponded fluids was noted in the extreme southeast corner of the site, in what is now the Ushio-America, Inc. parking lot. What was interpreted to have been an area containing ponded fluids was present on what is now the southwestern edge of the Nippon Express USA (Nippon Express) parking lot and extending onto the present off-site property of Triangle Steel & Supply Corp./Wiater Wolff & Co. (Figures 2 and 4).

The 1981 photorevision of the 1964 topographic map indicates that the on-site manufacturing facility was no longer present and that some of the large warehouse structures now present at the site had been constructed.

A review of DHS documents shows that, beginning in 1942, the site was developed as a synthetic rubber manufacturing facility, consisting of three principal components (Figure 2). They were: Plancor 611, a copolymer plant, situated in approximately the upper half of the present site configuration and bound to the north by 190th Street; Plancor 929, a styrene plant, situated in approximately the lower half of the present site configuration, bound to the south by the DWP right-of-way; and Plancor 963, a butadiene production plant, which is largely off-site, to the east, across Vermont Avenue, with portions formerly occupying the present site of Toshiba America, Inc./Silver-Reed America, Inc. (DHS, no date).

Production began at the site in June and July of 1943 and continued through 1969 (DHS, no date). Disposal of chemical wastes generated during manufacturing processes was apparently off-site to a series of unlined disposal pits or ponds within the area of the present Del Amo site. Disposal to the ponds continued during a period from the early 1940s through 1965. By 1969, Shell Oil Company, which purchased the industrial facility, had covered the disposal areas with soil (WCC, 1985). Investigations conducted at the Del Amo Boulevard site by Dames and Moore/Radian (1984) and WCC (1987) show that high concentrations of volatile organic compounds (VOCs) (benzene, ethylbenzene, toluene, and xylenes), and variable concentrations of polynuclear aromatics (PNAs) including napthalene, phenanthrene, anthracene, fluoranthene, pyrene, and styrene are present in the wastes and subjacent soil.

6.3 Oil and Gas Drilling

According to California Division of Oil and Gas (CADOG) records, no oil or gas wells have been drilled onsite. Four wells have been drilled in the vicinity of the site. Two wildcat (exploratory) wells were drilled approximately 4,000 feet northwest of the site to depths of 4,184 and 3,505 feet below the ground surface (BGS). Two additional wells were drilled approximately 3,500 to 4,000 feet west of the site to depths of 6,536 and 7,168 feet BGS. All four wells are classified by CADOG as abandoned dry holes and never produced petroleum resources (California Division of Oil and Gas, 1980).

6.4 Underground Storage Tanks

Eight reported unauthorized releases from underground storage tanks (UST's) are located within a two-mile radius of the site. The facility names and locations are presented on Table 1 and shown in Figure 3. At each of the sites, either solvents and/or motor vehicle fuel were released into the subsurface (California Water Resources Control Board, 1987). Underground tank leaks were not reportedly present within the site boundaries.

6.5 Landfills

Landfills discussed in Subsections 6.5 and 6.6 are presently active, undergoing Superfund remediation activities, or are projected for Superfund remediation. Six such landfills are reported to be located within a two-mile radius of the site. Of the six, three are California Superfund sites and one is projected for clean-up under the California Superfund (DHS, 1987). Landfills that are Superfund sites are discussed in Section 6.6. The landfills that are not Superfund sites are the U.S. Steel Corporation Disposal Site (active) (Solid Waste Management Board, 1986) and the Royal Boulevard Class III Disposal Site (projected Superfund), (DHS, 1987). The reported locations of the landfills are indicated in Figure 3.

6.6 Superfund Sites

Eight Superfund sites are reported to be located within a two-mile radius of the site; a ninth site is projected for Superfund site listing in 1988 (DHS, 1987). The locations of these Superfund sites are shown in Figure 3. A discussion of each of these Superfund sites, including Superfund-related landfills as noted in Subsection 6.5, are discussed here.

6.6.1 Del Amo Site

As noted in Subsection 6.2, the Del Amo site is located adjacent to the site to the south, across the DWP right-of-way (Figure 3). The Del Amo Boulevard site was previously part of the industrial facility involved in the manufacture of synthetic rubber for the U.S. Government during World War II. Operations at the synthetic rubber facility ceased in the mid-1960's and the disposal areas, which consisted of a series of unlined disposal pits or ponds, were covered with soil (DHS, 1987).

Elevated concentrations of volatile aromatic and PNA compounds are present in soil and groundwater beneath the site. The volume of degraded soil is estimated to be approximately 155,000 cubic yards (Applied Geosciences Inc., 1987). Degradation of the underlying first groundwater has been reported in the vicinity of the Del Amo site; however, it is our judgment that insufficient data have been acquired to fully characterize the nature and extent of the groundwater degradation (Applied Geosciences Inc., 1987).

6.6.2 Dow Chemical USA

The Dow Chemical site is an active facility which manufactures synthetic resins, plastics, and elastomers. It was found that an underground tank, in operation since 1963, had released product to the subsurface. Analysis of a soil sample from 10 feet below the ground surface (BGS) indicated that a concentration of 90,000 parts per million (ppm) of acetone was present. A sample from 20 feet BGS was found to contain a concentration of 1,000 ppm of acetone. Sixty cubic yards of impacted material has been removed to a Class I landfill (licensed by the State to receive hazardous waste). A remedial investigation at the site is scheduled to commence in January 1988. (DHS, 1987).

6.6.3 Gardena Sumps

The Gardena Sumps site contains sumps where petroleum-related products were dumped over a 30-year period. Petroleum hydrocarbons and heavy metals have been detected in very acidic soil, and groundwater beneath the site may be degraded due to vertical migration from the overlying soil. Site investigations have been limited to date, and according to DHS documents, there has been minimal characterization of the nature and extent of "contamination". Responsible parties (RP's) have reportedly

indicated a willingness to initiate site characterization proceedings (DHS, 1987).

6.6.4 Montrose Chemical

The Montrose Chemical site is a Federal Superfund site which is currently the subject of an EPA remedial investigation and feasibility study (RI/FS). Between 1947 and 1982, Montrose Chemical manufactured dichlorodiphenyltrichloroethane (DDT) at the site which was reportedly the largest DDT manufacturing plant in the world (Wilson, 1986). On-site soil samples were found to contain DDT; DDT was also found to be present in surface water runoff and sediments leaving the site. DDT has also been detected in sewers leaving the Montrose Chemical site (DHS, 1987).

6.6.5 Golden Eagle Refinery

In the past, the Golden Eagle Refinery produced a variety of petroleum products and landfarming of oily wastes was conducted on about 20 acres of the site. Additionally, a separate company operated a Class III (municipal waste) landfill for two years (1961-1962) on a 10-acre portion of the site. A large portion of the site (including first groundwater) was reported to contain high concentrations of hydrocarbons and the landfill is reportedly emitting methane gas. A site characterization and mitigation plan has been submitted to the DHS for review (DHS, 1987).

6.6.6 Gardena Valley Landfills #1 and #2

The Gardena Valley Landfills #1 and #2 were permitted Class II landfills operating from November 1964 through April 1965. The landfills, which were adjacent to each other, covered a 17-acre parcel and accepted 635,000 cubic yards of soil and wastes. The wastes were approximately 75 percent residential refuse and 25 percent "other wastes". Investigations to date indicate the absence of hazardous wastes in the landfills; however, methane gas emanating from the site may pose a fire and explosion hazard (DHS, 1987).

6.6.7 Gardena Valley Landfill #6

The six-acre Gardena Valley Landfill #6 site was used for the disposal of household and solid commercial wastes from November 1962 through April 1965. The landfill is suspected of containing hazardous wastes and methane gas emanation may be a hazard. The RP is conducting a remedial investigation and a feasibility study at the present time (DHS, 1987).

6.6.8 Cal-Compact Landfill

The Cal-Compact Landfill occupies approximately 180 acres. Operations at the site were conducted from 1959 through 1965 or 1968. Although the Cal-Compact Landfill was designated a Class

II facility, an estimated 250,000 cubic yards of hazardous waste (including sludges) were also deposited at the site. The site has a history of receiving petrochemicals, paints, solvents, dyes, organic resins, and inorganic salts. Additionally, emissions of methane and carbon dioxide gases have been detected at the site. Groundwater beneath the site may also be impacted. Additional site characterization by the RPs is anticipated in the future (DHS, 1987).

6.6.9 Royal Boulevard Class III Disposal Site

The Royal Boulevard Class III Disposal Site is approximately 7.3 acres in size and was operated from 1956 through 1985. During the preparation of an environmental audit and closure plan for the site, it was discovered that foundry sand and baghouse dust may have been disposed at the site. As the site is partially bound by residential neighborhoods, the potential for wind-blown dispersal of foundry sand is a concern. The site is projected for cleanup by the RPs (DHS, 1987).

6.7 Additional Sites of Concern

West of the site lie two facilities which, in the past, have been sources of environmental impact, Mobil Oil Corporation refinery and McDonnel Douglas Corporation Aircraft Division (Figure 3). Additionally, several inactive landfills exist within the site vicinity. Information regarding these sites was not obtained for this assessment.

7.0 SITE VISITS

Initial site visits were conducted between 2 June 1987 and 10 June 1987. The purpose of the visits was to observe and record present site conditions and use of potentially hazardous materials on the site. The site visits were part of an initial phase of work in which the facilities were screened to record if there was the need to conduct further investigations, including field investigation. The visits were conducted after arrangements were made with tenants by Cadillac personnel. In general, most of the facilities are used as warehouses and distribution centers; at some facilities, light manufacturing is performed. Specific sources of hazardous materials and/or hazardous waste were observed. Those that were observed at certain facilities are presented in the following sections.

7.1 Underground Storage Tanks

Pacific Telephone & Telegraph Co. (Pacific Telephone) operates a maintenance facility on property within the site (Figure 2). Four UST's containing gasoline, diesel fuel, and waste oil owned by Pacific Telephone, are present on site. These tanks are reportedly registered and include a leak detection and monitoring system. Records reviewed by personnel of Applied Geosciences Inc. indicated that tank leaks have not been reported for this facility.

Perma-Bilt Industries (Figure 2) reportedly maintains three UST's at their 19301 Pacific Gateway Drive facility on-site. According to information provided by personnel of this facility, these UST's are not registered, but they are in the process of investigating tank integrity and obtaining compliance with current monitoring regulations.

Javelin Electronics (Figure 2) reportedly excavated and disposed of an UST approximately two months prior to the site visit by personnel of Applied Geosciences Inc. Personnel of this facility did not have records pertaining to compliance with UST closure requirements for review by personnel of Applied Geosciences Inc. The facility was not listed as an underground tank clean-up site in regulatory agency records reviewed by personnel of Applied Geosciences Inc.

7.2 Asbestos

At the Pacific Telephone facility, a warning sign indicating that "air-borne asbestos fibers emanating from servicing brake linings in the facility may be present" was observed on the garage wall during the site visit. This was the only observed indication of asbestos noted during the site visits.

7.3 PCBs

Transformers potentially containing polychlorinated biphenyls (PCBs) were noted during the site walk at the Pacific Telephone facility; the transformer at Pacific Telephone is owned by the Edison Company.

7.4 Tenant Usage

Additional potentially hazardous materials and/or waste were noted at six facilities on site during site visits by Applied Geosciences Inc. including:

Pacific Telephone & Telegraph Co.: Hazardous materials/waste present at this facility include paint, gasoline, diesel fuel, waste oil, and flammable chlorinated solvents. Surficial staining was noted on the asphalt outside and in front of the garage by personnel of Applied Geosciences Inc. during the site visit. The asphalt in this area appeared to have settled differentially in places.

Computer Images Inc.: Hazardous chemicals used include flammable solvents, lacquers, and alcohols. This facility uses a graphic enlargement process for signs, billboards, etc. Venting of fumes during this process is regulated by the South Coast Air Quality Management District (SCAQMD). The facility appeared well-maintained and was reportedly in compliance with applicable regulations.

Javelin Electronics: Hazardous chemicals used include cleaning alcohol and cleaning solvents (1,1,1, Trichloroethane). Waste

alcohol is reportedly not generated. Waste cleaning solvents are sold for recycling to a registered hazardous waste recycling company.

Nakamichi U.S.A. Corporation: Polymeric isocyanate is used at this facility to make a foam packing material. This chemical is reportedly used up during this process; no waste from this process was observed during the site visit.

Perma-Bilt Industries: Hazardous materials observed at the manufacturing site include acetone, methylene chloride, lacquer thinner, methyl ethyl ketone, peroxide, casting resins, paint thinners, catalysts, and baghouse waste. Pronounced resin and solvent odors, both inside and outside of this facility, were noted by personnel of Applied Geosciences Inc. during the site visit. No scrubbing system for odor control was apparently in place and this facility has reportedly been cited by SCAQMD for discharges. An outside storage area for chemicals used at this facility was judged by Applied Geosciences Inc. to be poorly maintained as containers were unlabeled; chemicals were poorly segregated; some minor leakage or spillage was apparent; and no containment structures were observed.

R.R.Donnelley & Sons: Solvent-based inks are used at this printing facility. Permits for air and industrial waste discharges were noted with no apparent violations.

8.0 FIELD INVESTIGATION

A field investigation program was developed to examine the subsurface of several areas of the site. Based upon aerial photograph reviews, site visits, and/or regulatory agency data reviews, in the judgment of Applied Geosciences Inc., these areas have been, or are presently adjacent to possible waste disposal ponds or sumps, areas of degraded ground surface, above-ground storage tanks or tank farms on the site or adjacent property.

8.1 Soil Boring Program Summary

The field investigation was conducted on 22 and 23 June 1987. Seven borings were drilled at selected locations within the site boundaries to provide information on subsurface conditions and to collect soil samples for laboratory analysis. Drilling services were provided by Datum Exploration, Inc. of Long Beach, California, under the supervision of a State-registered geologist from Applied Geosciences Inc. Field procedures for this investigation are presented in Appendix A. Boring logs are contained in Appendix B.

Field criteria used to assess whether soil contained elevated concentrations of potentially hazardous materials included: visual evidence of anomalous staining; the presence of anomalous odors; and the presence of detectable VOCs using an Hnu brand organic vapor meter (OVM).

Evidence for the presence of potentially hazardous materials in soil samples collected from the borings based on field criteria was noted in only two samples: a soil sample collected from boring CFT2 at a depth of approximately five feet below the ground surface which contained blackish, plastic-like globules; and a VOC concentration of 30 ppm of VOC vapors measured in a soil sample from boring CFT5 collected from the lowermost sample interval at a depth of approximately 41 feet BGS.

The borings were designated CFT1 through CFT7, signifying Cadillac Fairview Torrance boring 1 through 7. Each of the borings are discussed in the following subsections and on Table 2. The locations of the borings and other site features are shown in Figures 2 and 4.

8.1.1 Boring CFT1

Boring CFT1 was drilled to a depth of approximately 31.5 feet BGS surface in the vacant lot at the southwest corner of 190th Street and Pacific Gateway Drive. Interpretations of the 1954 aerial photograph indicate that a complex of several above-ground tanks may have been present in this area during operation of the synthetic rubber manufacturing facility.

8.1.2 Boring CFT2

Boring CFT2 was drilled to a depth of approximately 31.5 feet BGS surface and is located in the southwestern corner of the TRW Inc. parking lot. Interpretations of the the 1954 aerial photograph indicate that surface degradation relating to activities conducted at the synthetic rubber manufacturing facility may have been present in this area.

8.1.3 Boring CFT3

Boring CFT3 was drilled to a depth of approximately 31.5 feet BGS surface and located in the area where a series of above-ground storage tanks, relating to the former manufacturing facility, was interpreted from aerial photographs from 1947 and 1954. This area is adjacent to what is now the Toshiba America, Inc. and Silver-Reed America, Inc. property.

8.1.4 Boring CFT4

As stated in Subsection 5.2, what was interpreted to have been an area containing ponded fluids was present on what is now the southwestern edge of the Nippon Express USA (Nippon Express) parking lot and extending onto the present off-site property of Triangle Steel & Supply Corp./Wiater Wolff & Co. Boring CFT4 was placed on the western boundary of the Nippon Express parking lot and advanced to a depth of approximately 31.0 feet BGS into what was the approximate northeast corner of the interpreted area.

8.1.5 Boring CFT5

Boring CFT5 was drilled in the southwest corner of the Nippon Express parking lot to a depth of approximately 41.5 feet BGS into what was the approximate southeast corner of the above-discussed area of ponded fluids.

8.1.6 Boring CFT6

Boring CFT6 was placed on the southern boundary of the Cadillac property in the Nippon Express parking lot approximately 10 feet south of a WCC monitoring well number P2, which was installed during site characterization studies of the Del Amo site. Groundwater samples collected from WCC well P2 have contained elevated concentrations of VOCs, including concentrations of benzene as high as 150,000 parts per billion (ppb) (WCC, 1987). Boring CFT6 was drilled to an approximate depth of 50 feet BGS.

8.1.7 Boring CFT7

Boring CFT7 was drilled to a depth of approximately 41.5 feet BGS surface in the southeast portion of the Ushio-America, Inc. parking lot. The boring location is in the area discussed in Subsection 5.2 where a rectangular area, possibly containing ponded fluids was interpreted from aerial photographs.

8.2 Subsurface Conditions

Based upon observations made during the drilling and sampling of the borings, a description of the shallow stratigraphy at the site was compiled. Lithologies encountered were predominantly clayey silts, silts and silty clays extending from the ground surface to depths of approximately 15 to 50 feet BGS. The top of an approximately 5- to 6.5-foot thick sand layer was encountered at depths of approximately 20 to 25 feet BGS in borings CFT1, CFT2, and CFT3. Those borings are located in the approximate northern half of the site. First groundwater was not encountered in any of the borings.

9.0 LABORATORY ANALYSES

Soil samples were collected and retained for laboratory analysis at West Coast Analytical Service, Inc. (WCAS) of Santa Fe Springs, California. WCAS is a State-certified hazardous waste and Environmental Protection Agency (EPA) contract laboratory. Chain-of-custody procedures, including the use of chain-of-custody forms, were used to document sample handling and transport to the laboratory. Procedures for collection and retention of the samples are presented in Appendix A. Laboratory reports are presented in Appendix C.

9.1 Analytical Methods

Based upon a review of reports of work conducted by others concerning characterization of soil and groundwater degradation from the Del Amo site, it was the judgment of Applied Geosciences Inc. to analyze selected soil samples from the borings drilled during the field investigation for the presence of volatile and semi-volatile organic compounds in general accordance with the following methods:

- EPA Method No. 8240 for detectable concentrations of VOC's; and,
- EPA Method No. 8270 for detectable concentrations of semi-volatile organic compounds.

Twenty-two soil samples were analyzed using each method; laboratory reports contained in Appendix C indicate the samples analyzed, the compounds analyzed for, the detected concentrations, if any, and the detection limits for each of the compounds. Concentrations and detection limits are reported in micrograms per kilogram (ug/kg), which is approximately equivalent to parts per billion (ppb).

9.2 Laboratory Results

Compounds analyzed for were not found to be present in the soil samples analyzed in concentrations above the indicated detection limits except for the following:

- Sample CFT3-1-2 from boring CFT3 is reported to have an unidentified BNA compound at a concentration of 1,000 ppb. This sample was collected from a depth of approximately five feet BGS; and
- Sample CFT5-4-2 from Boring CFT5 is reported to have the compounds Freon-TF and benzene in concentrations of 6 and 97 ppb, respectively. This sample was collected at an approximate depth of 40 feet BGS.

10.0 DISCUSSION

10.1 Historical Data

Interpretations of aerial photographs dated as early as 1928 indicate that the site was used for agricultural purposes from 1928 through 1941. Photographs were not available for the time interval of 1942-1946; however, 1947 and 1954 photographs reveal that the site was developed as an industrial facility. Information obtained from DHS indicates that construction of the facility, which was used for the production of synthetic rubber, began in 1942, and rubber production began in 1943. The disposal of chemical waste byproducts of the production processes, which included high concentrations of VOCs and PNAs, was into unlined ponds in what is now the Del Amo (Superfund) site. Based upon

present knowledge, there is some likelihood of on-site soil degradation caused by disposal activities at the Del Amo site.

10.2 Site Vicinity

The site is located in a heavily industrialized area of the Los Angeles Basin. Numerous Superfund sites consisting of abandoned landfills, sumps, chemical manufacturing facilities, and refineries occur in the site vicinity. Additionally, eight underground storage tank leaks of potentially hazardous materials have been reported at non-Superfund sites within the site vicinity. In all of the Superfund sites and underground storage tank leak cases, underlying soil degradation has been reported. Degradation of first groundwater has been reported or is suspected in the following cases: Del Amo site, Dow Chemical USA, Gardena Sumps, Montrose Chemical, Golden Eagle Refinery, Cal-Compact Landfill, Arco Station No. 6169, Bee Chemical Company, and The Carson Estates Company (Figure 3).

There is some likelihood of on-site soil degradation from these off-site sources. However, first groundwater degradation beneath the site and vicinity, caused by chemical waste disposal or unauthorized underground storage tank releases, has been documented in the case of the Del Amo and Montrose Chemical sites; the underlying Gage Aquifer has reportedly been degraded beneath the Montrose Chemical site. Degradation of the first groundwater related to investigations of the Del Amo site is discussed below.

Beneath the site, first groundwater is reportedly present at a depth of approximately 65 feet BGS and has a flow direction to the south-southeast, although slight changes in local groundwater levels may change the flow direction (Dames and Moore/Radian, 1984). The disposal of fluids into the ponds on the Del Amo site has apparently affected the first groundwater. A groundwater sampling and analysis program conducted by WCC (1987) indicates that a concentration of 150,000 ppb of benzene was present in a groundwater sample collected from well P2, which is located on-site, near the southern boundary of the Nippon Express property (Figure 2). Based upon the south-southeast flow direction of the first groundwater as assessed by the Dames and Moore/Radian study (1984), well P2 would be up-gradient of the Del Amo site. The source of the elevated concentrations of benzene in first groundwater samples collected from on-site well P2 is unknown; potential sources may include previously unidentified up-gradient disposal areas, leaking underground tanks and piping, or spills (Applied Geosciences Inc., 1987). Alternatively, a zone of higher permeability located above the first groundwater and inclined to the north, enhancing migration of "pollutants" from the disposal pits may exist (WCC, 1987).

10.3 Site Usage

Most of the facilities at the site are used as warehouses and distribution centers, however at some facilities the presence of potentially hazardous materials and/or waste was noted during site visits conducted by personnel of Applied Geosciences Inc. In general, these facilities appeared to be well maintained and in general compliance with current regulations of which we are aware; however, specific conditions that do not appear to be in compliance with current regulatory guidelines include the following: incomplete compliance with regulations concerning monitoring and/or closure of UST's at the Perma-Bilt Industries and Javelin Electronics facilities; potential air-borne asbestos fibers and anomalous surficial staining in areas of differential settlement in the asphalt outside the garage at the Pacific Telephone facility; and incomplete compliance with SCAQMD regulation and a poorly maintained chemical storage area at the Perma-Bilt Industries facility.

The likelihood that these conditions currently pose a significant threat to the environment is low in our judgment. Improved management practices and compliance with current regulatory guidelines can minimize the likelihood that these conditions would lead to a significant adverse environmental impact in the future.

10.4 Field Investigation

In general, placement of the borings drilled during the field investigation was based on aerial photograph interpretations that indicated possible former disposal or other degraded areas on site. Borings were placed to provide information on subsurface conditions in those areas, including: the approximate location of the southwest corner of the present-day TRW Inc. site, the ground surface appears to have been degraded (boring CFT2); a rectangular area, possibly containing ponded fluids was noted in the extreme southeast corner of the site, in what is now the Ushio-America, Inc. parking lot (boring CFT7); and what was interpreted to have been an area containing ponded fluids extending from what is now the southwestern edge of the Nippon Express parking lot onto the off-site property of Triangle Steel & Supply Corp./Wiater Wolff & Co. (Borings CFT4 and CFT5) (Figure 2). Laboratory analysis of selected soil samples from these borings were non-detect except for two soil samples: sample CFT3-1-2 was reported to contain a concentration of 1000 ppb of an unidentified BNA compound; and sample CFT5-4-2 reported to contain detectable concentrations of Freon-TF (trichlorotrifluoroethane) at a concentration of 6 ppb, and benzene at a concentration of 97 ppb. The sources of these compounds is unknown at the present time; samples collected from above this depth were not reported to contain these compounds.

Soil sample CFT3-1-2 was collected from a depth of approximately five feet BGS in an area that, based upon interpretation of aerial photographs, is within the bounds of the former Plancor

963 butadiene facility. The nature and source of this compound is unknown; however, semi-volatile and PNA compounds have been reported in soil and groundwater samples collected during previous investigations conducted by others at the Del Amo site.

Soil sample CFT5-4-2 was collected from a depth of approximately 41 feet below the ground surface, the lowermost sampling interval. As previously stated, boring CFT5 was drilled in the southwest corner of the Nippon Express parking lot to a depth of approximately 41.5 feet BGS into what was the approximate southeast corner of a bermed, ponded fluid containment area. The source of the benzene detected in sample CFT5-4-2 is not known; however, benzene has been ubiquitous in past soil and groundwater sampling and laboratory analysis programs conducted by others, with concentrations up to 150,000 ppb in a groundwater sample collected from well P2, on-site.

Based upon Applied Geosciences Inc.'s review of studies conducted by others at the site, Freon-TF has not been previously reported in laboratory analyses of soil or groundwater samples collected by others from the Del Amo site or from on-site wells. The source of Freon-TF is unknown.

11.0 CONCLUSIONS

Based upon data gathered during this site assessment, the following conclusions are presented:

- The site is located in a heavily industrialized area of the Los Angeles Basin;
- During the period 1928 through 1941, the site was used for agricultural purposes;
- During the period 1942 through 1969, the site was developed and used as an industrial facility manufacturing synthetic rubber;
- Disposal of chemical wastes generated during the manufacturing process was reportedly to a series of unlined pits or ponds in what is now the Del Amo Superfund site, adjacent to the southern boundary of the site;
- Drilling for oil and gas has not been conducted on-site;
- Eight reported underground storage tank leaks are located in the site vicinity;
- Two non-Superfund landfills are reported to have existed in the site vicinity;
- Eight Superfund sites, including three former landfills and one landfill projected for inclusion in the Superfund program, are present in the site vicinity;

- Numerous off-site sources of hazardous materials are present in the site vicinity, and there is some likelihood of on-site soil degradation caused by off-site sources, principally the Del Amo site;

- Air-borne asbestos may be present at the Pacific Telephone facility as a result of tenant usage;

- Previous first groundwater sampling and analysis indicates that first groundwater in the southern portion of the site contains elevated concentrations of benzene. The source of benzene in first groundwater beneath the site is unknown;

- Soil sample CFT3-1-2 collected as a part of this assessment contained an elevated concentration of an unidentified BNA compound;

- Soil sample CFT5-4-2 collected as part of this assessment contained elevated concentrations of Freon-TF and benzene;

- Sources of the detected chemical constituents are unknown; and,

- Current site usage by several tenants is not in compliance with current regulatory guidelines.

12.0 RECOMMENDATIONS

Based on the conclusions and information presented in this assessment, the following recommendations are presented for your consideration:

- Regulatory Agency Contacts - Contact with regulatory agencies involved with environmental issues in the site vicinity should be maintained. This should include review of forthcoming reports or data that becomes available concerning remedial measures at the Del Amo and Montrose Chemical Superfund sites and other facilities in the site vicinity.

- Operators of UST's should initiate a monitoring program and conduct precision testing if warranted.

- Tenants not in compliance with current regulations should bring their operations into compliance.

- Periodic reviews of compliance with applicable environmental regulations pertaining to those facilities on-site which handle hazardous materials or generate hazardous waste should be conducted.

13.0 REFERENCES

Applied Geosciences Inc., 1987, Hazard investigation of the Del Amo Superfund site, located on Del Amo Boulevard near Vernon Avenue, Los Angeles, California; unpublished report issued to Hazard Management Consulting, Inc., 15 p.

California Division of Oil and Gas, 1980, 65th Annual Report of the State Oil and Gas Supervisor; California Department of Conservation, Division of Oil and Gas, Publication No. PRO 6, Sacramento, California, 162 p.

California Water Resources Control Board, 1987, Report on Unauthorized Releases of Hazardous Substances from Underground Storage Tanks, January 1987.

Dames and Moore/Radian, 1984, Interim summary of findings, Del Amo site investigation; unpublished report issued to DHS.

DHS (California Department of Health Services), 1987, Expenditure Plan for the Hazardous Substance Bond Cleanup Act of 1984, Revised January 1987.

_____, no date, Draft summary document, Del Amo hazardous waste site, 18 p.

DWR (Department of Water Resources), 1961, Planned utilization of the groundwater basins of the Coastal Plain of Los Angeles County, Appendix A, Bulletin No. 104

Solid Waste Management Board, 1986, Solid Waste Information System (SWIS) Summary Report for Landfills in California; State of California Solid Waste Management Board, June 17, 1986.

Wilson, R., 1986, Former Montrose Chemical employee: oral communication.

Woodward-Clyde Consultants (WCC), 1985, Draft report, Del Amo hazardous waste site remedial investigation/feasibility study-description of existing site conditions; unpublished report issued to DHS, 41 p.

_____, 1987, Task 2 draft report, Additional data acquisition and interpretation, Del Amo hazardous waste site, Los Angeles, California, volume 1 of 2; unpublished report issued to DHS, 50 p.

TABLES

TABLE 1. FACILITIES WITH REPORTED UNDERGROUND TANK LEAKS[1]
(OTHER THAN SUPERFUND SITES)

Figure 3 Key	Facility	Address	Material Leaked
1	Bee Chemical Company	1500 West 178th Street Gardena	Sol/Fuel[2]
2	The Carson Estates Company	20225 South Western Avenue Torrance	Sol/Fuel
3	Pacific Smelting Company	22219 South Western Avenue Torrance	Fuel
4	Terry's Service Station	1924 West Carson Boulevard Torrance	Unknown
5	West Coast Pipelines	3700 West 190th Street Torrance	Fuel
6	ARCO Station No. 6169	1411 East Del Amo Avenue Carson	Fuel
7	Shell Station	20225 South Avalon Street Carson	Fuel
8	Honeywell, Inc.	17300 South Western Avenue Gardena	Solvents

Notes:

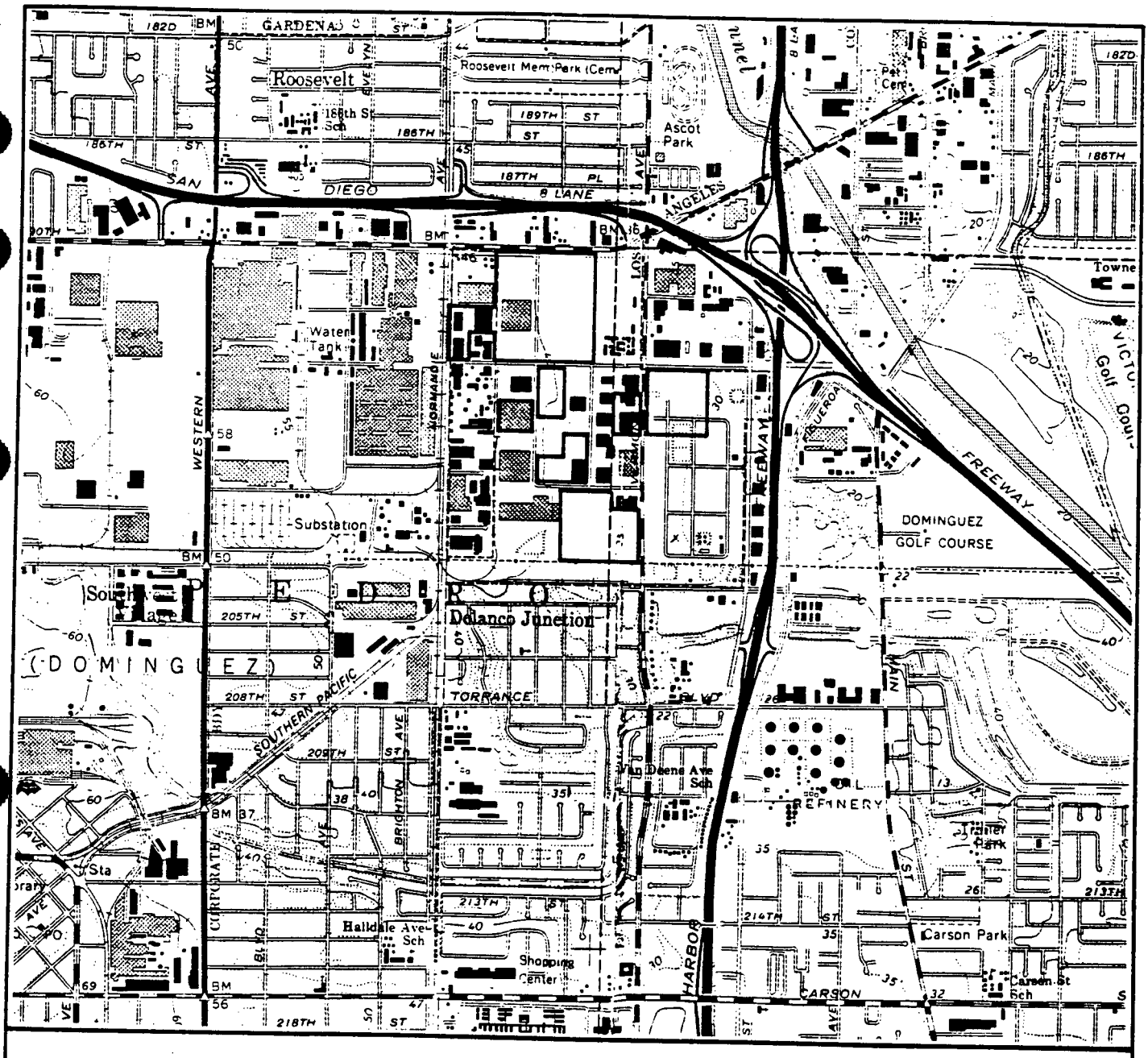
1. Source of information: California Water Resources Control Board Report on Unauthorized Releases of Hazardous Substances from Underground Storage Tanks, January 1987 (see Figure 3 for location).

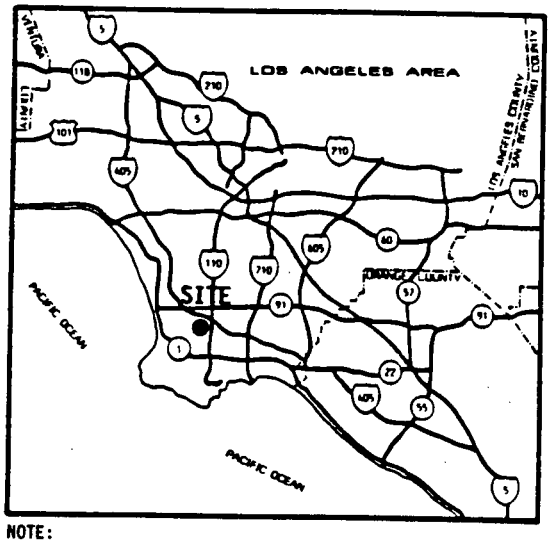
2. Sol/Fuel = Solvent/Fuel.

TABLE 2: BORING LOCATIONS

Boring	Location and Criteria for Placement
CFT1	Boring CFT1 was drilled to a depth of approximately 31.5 feet BGS in the vacant lot at the southwest corner of 190th Street and Pacific Gateway Drive. Interpretations of the 1954 aerial photograph indicate that a complex of several aboveground tanks may have been present in this area during operation of the synthetic rubber manufacturing facility.
CFT2	Boring CFT2 was drilled to a depth of approximately 31.5 feet BGS and is located in the southwestern corner of the TRW Inc. parking lot. Interpretations of the the 1954 aerial photograph indicate that surface degradation relating to activities conducted at the synthetic rubber manufacturing facility may have been present in this area.
CFT3	Boring CFT3 was drilled to a depth of approximately 31.5 feet BGS and located in the area where a series of aboveground storage tanks, relating to the former manufacturing facility, was interpreted from aerial photographs from 1947 and 1954. This area is adjacent to what is now the Toshiba America, Inc. and Silver-Reed America, Inc. property.
CFT4	As stated in Subsection 5.2, what was interpreted to have been an area containing ponded fluids extended from what is now the southwestern edge of the Nippon Express parking lot onto the off-site property of Triangle Steel & Supply Corp./Wiater Wolff & Co. Boring CFT4 was placed on the western boundary of the Nippon Express parking lot and advanced to a depth of approximately 31.0 feet BGS into what was the approximate northeast corner of the interpreted degraded area.
CFT5	Boring CFT5 was drilled in the southwest corner of the Nippon Express parking lot to a depth of approximately 41.5 feet BGS into what was the approximate southeast corner of the above-discussed degraded area.
CFT6	Boring CFT6 was placed on the southern boundary of the Cadillac property in the Nippon Express parking lot approximately 10 feet south of a WCC monitoring well number P2, which was installed during site characterization studies of the Del Amo site. Groundwater samples collected from WCC well P2 have contained elevated concentrations of VOCs, including concentrations of benzene as high as 150,000 parts per billion (ppb) (WCC, 1987). Boring CFT6 was drilled to an approximate depth of 50 feet below the ground surface.
CFT7	Boring CFT7 was drilled to a depth of approximately 41.5 feet BGS in the southeast portion of the Ushio-America, Inc. parking lot. The boring location is in the area discussed in Subsection 5.2 where a rectangular area, possibly containing ponded fluids was noted in the extreme southeast corner of the site, in what is now the Ushio-America, Inc. parking lot.

FIGURES





SITE

NORTH

0 ½ 1

SCALE, MILES

NOTE:
BASE MAP IS TAKEN FROM USGS TORRANCE QUADRANGLE, CALIFORNIA - LOS ANGELES CO., 7.5 MINUTE SERIES (TOPOGRAPHIC), 1964, PHOTOREVISED 1981

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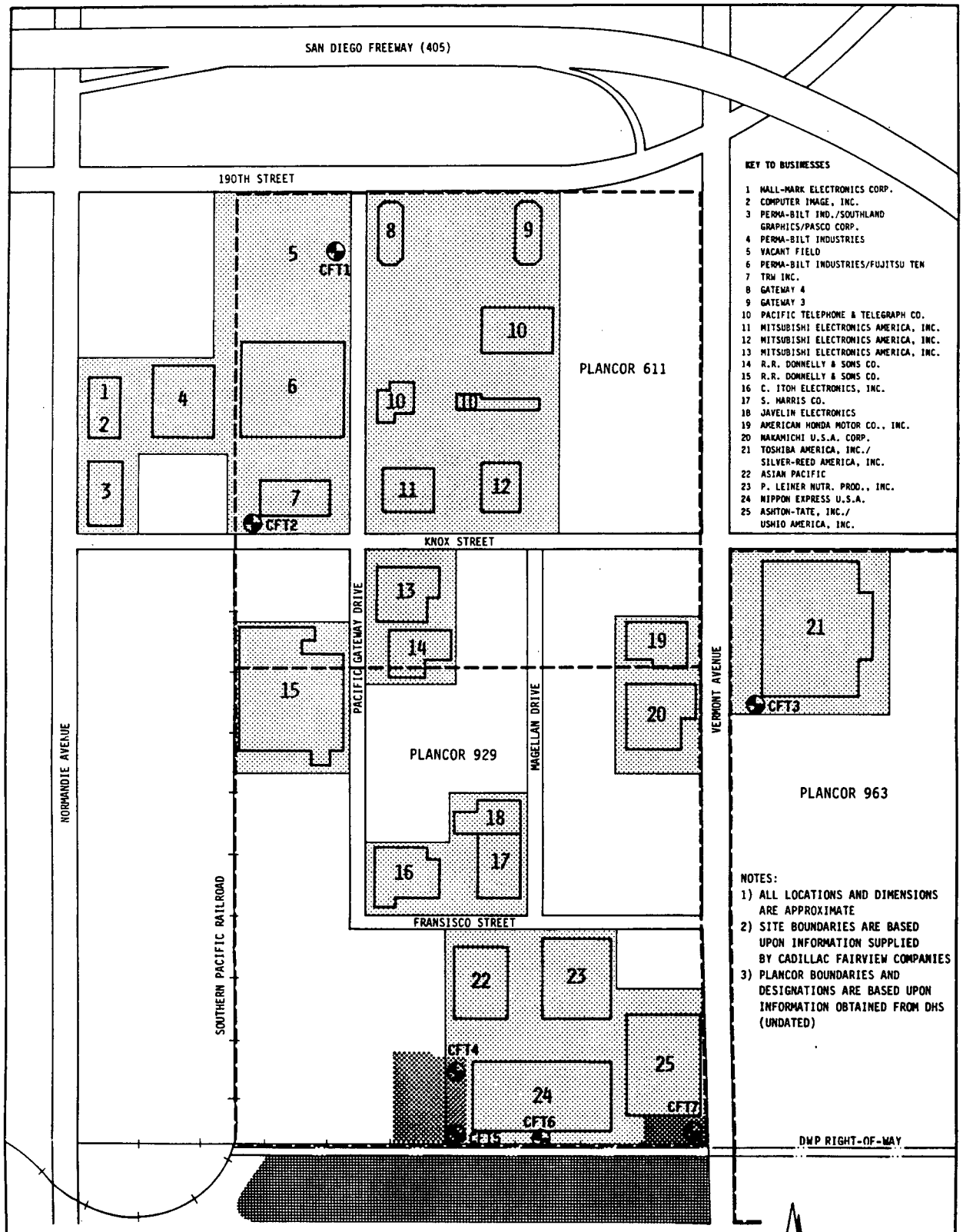
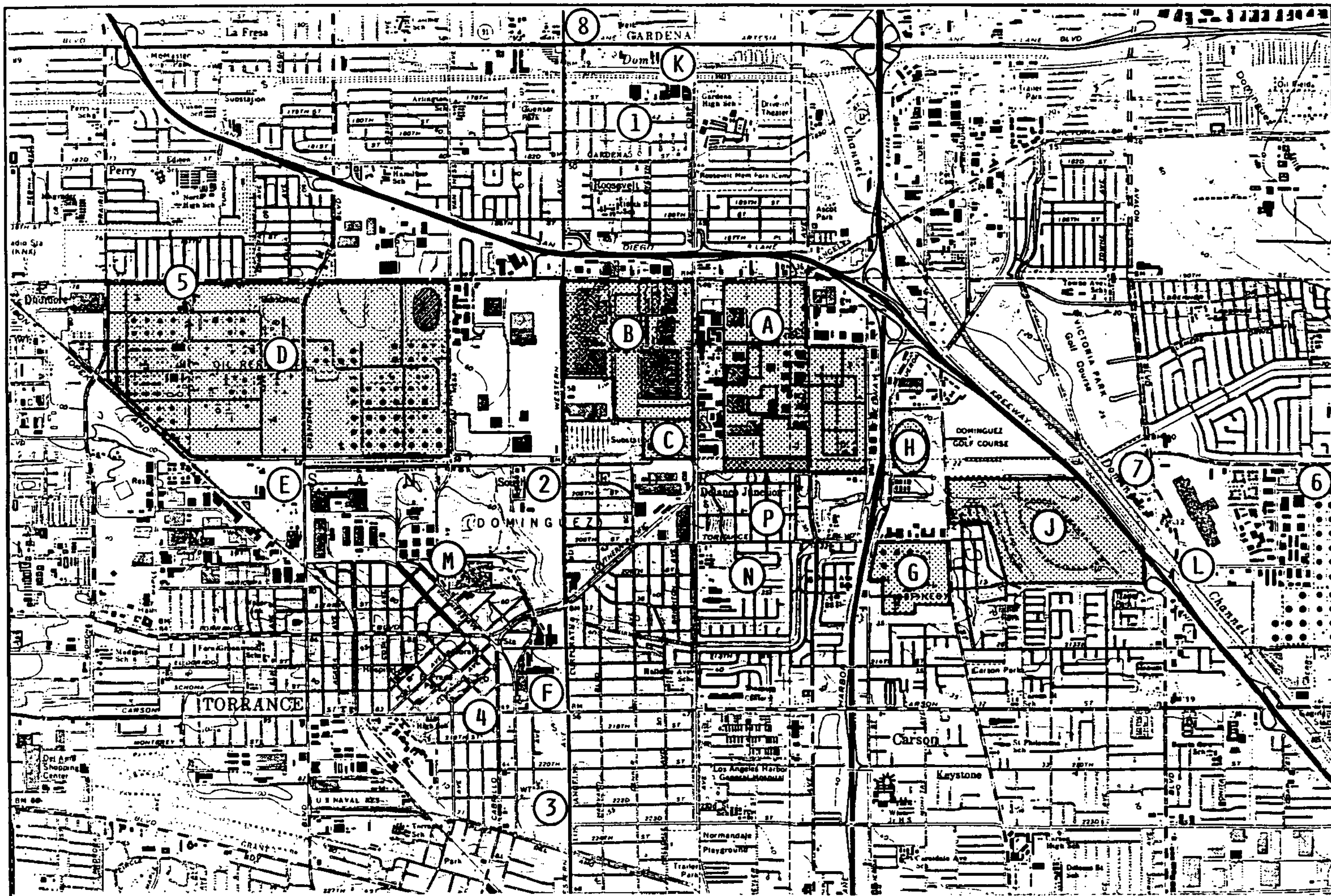
SITE VICINITY MAP

PROJECT NUMBER AGI1110A

FIGURE 1


SAN DIEGO FREEWAY (405)
190TH STREET
KNOX STREET
FRANSISCO STREET
NORMANDIE AVENUE
PACIFIC GATEWAY DRIVE
MAGELLAN DRIVE
VERMONT AVENUE
SOUTHERN PACIFIC RAILROAD
DWP RIGHT-OF-WAY
PLANCOR 611
PLANCOR 929
PLANCOR 963
CFT1
CFT2
CFT3
CFT4
CFT5
CFT6
CFT7
KEY TO BUSINESSES
1 WALL-MARK ELECTRONICS CORP.
2 COMPUTER IMAGE, INC.
3 PERMA-BILT IND./SOUTHLAND GRAPHICS/PASCO CORP.
4 PERMA-BILT INDUSTRIES
5 VACANT FIELD
6 PERMA-BILT INDUSTRIES/FUJITSU TEN
7 TRW INC.
8 GATEWAY 4
9 GATEWAY 3
10 PACIFIC TELEPHONE & TELEGRAPH CO.
11 MITSUBISHI ELECTRONICS AMERICA, INC.
12 MITSUBISHI ELECTRONICS AMERICA, INC.
13 MITSUBISHI ELECTRONICS AMERICA, INC.
14 R.R. DONNELLY & SONS CO.
15 R.R. DONNELLY & SONS CO.
16 C. ITOH ELECTRONICS, INC.
17 S. HARRIS CO.
18 JAVELIN ELECTRONICS
19 AMERICAN HONDA MOTOR CO., INC.
20 NAKAMICHI U.S.A. CORP.
21 TOSHIBA AMERICA, INC./ SILVER-REED AMERICA, INC.
22 ASIAN PACIFIC
23 P. LEINER NUTR. PROD., INC.
24 NIPPON EXPRESS U.S.A.
25 ASHTON-TATE, INC./ USHIO AMERICA, INC.
NOTES:
1) ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2) SITE BOUNDARIES ARE BASED UPON INFORMATION SUPPLIED BY CADILLAC FAIRVIEW COMPANIES
3) PLANCOR BOUNDARIES AND DESIGNATIONS ARE BASED UPON INFORMATION OBTAINED FROM DHS (UNDATED)
EXPLANATION
SITE
1 BUILDING LOCATION AND TENANT DESIGNATION
INTERPRETED AREA WITH PONDED FLUIDS
DEL AMO BOULEVARD SITE
963 APPROXIMATE LIMIT AND DESIGNATION OF FORMER SYNTHETIC RUBBER MANUFACTURING FACILITY (PLANCOR)
CFT1 BORING LOCATION AND DESIGNATION
NORTH
0
500
SCALE, FEET
APPLIED GEOSCIENCES INC.
Engineering Geology and Hazardous Materials Consultants
SITE PLAN
PROJECT NUMBER AGI1110A
FIGURE 2



EXPLANATION

A FORMER SYNTHETIC RUBBER MANUFACTURING FACILITY
B McDONNEL DOUGLAS CORP. AIRCRAFT DIVISION
C MONTROSE CHEMICAL (SF)
D MOBIL OIL CORPORATION
E DOW CHEMICAL USA (SF)
F NATIONAL SUPPLY COMPANY (ARMCO)
G GOLDEN EAGLE REFINERY (SF)
H GARDENA VALLEY LANDFILL #1 & 2 (SF)
J CAL-COMPACT LANDFILL (SF)
K GARDENA SUMPS (SF)
L GARDENA VALLEY LANDFILL #6 (SF)
M U.S. STEEL CORPORATION DISPOSAL SITE
N ROYAL BOULEVARD CLASS III DISPOSAL SITE
P DEL AMO BOULEVARD (SF)

UNDERGROUND TANK LEAKS

1 BEE CHEMICAL COMPANY
2 THE CARSON ESTATES COMPANY
3 PACIFIC SMELTING COMPANY
4 TERRY'S SERVICE STATION
5 WEST COAST PIPELINES
6 ARCO STATION NO. 6169
7 SHELL STATION
8 HONYWELL, INC.

☐ SITE

NORTH

0 ½ 1

SCALE, MILES

NOTES:
1) (SF) INDICATES SUPERFUND SITE
2) UNDERGROUND TANK LEAKS FROM RWQCB RECORDS
3) ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
4) BASE MAP SOURCE CITED IN FIGURE 1
5) DATA SOURCES USED TO ASSESS SITES SHOWN IN THIS FIGURE ARE CITED IN REPORT SECTION 6
6) THIS FIGURE PRESENTS SELECTED POTENTIAL SOURCES OF ENVIRONMENTAL DEGRADATION AND IS NOT INTENDED TO BE ALL - INCLUSIVE OF SUCH SOURCES

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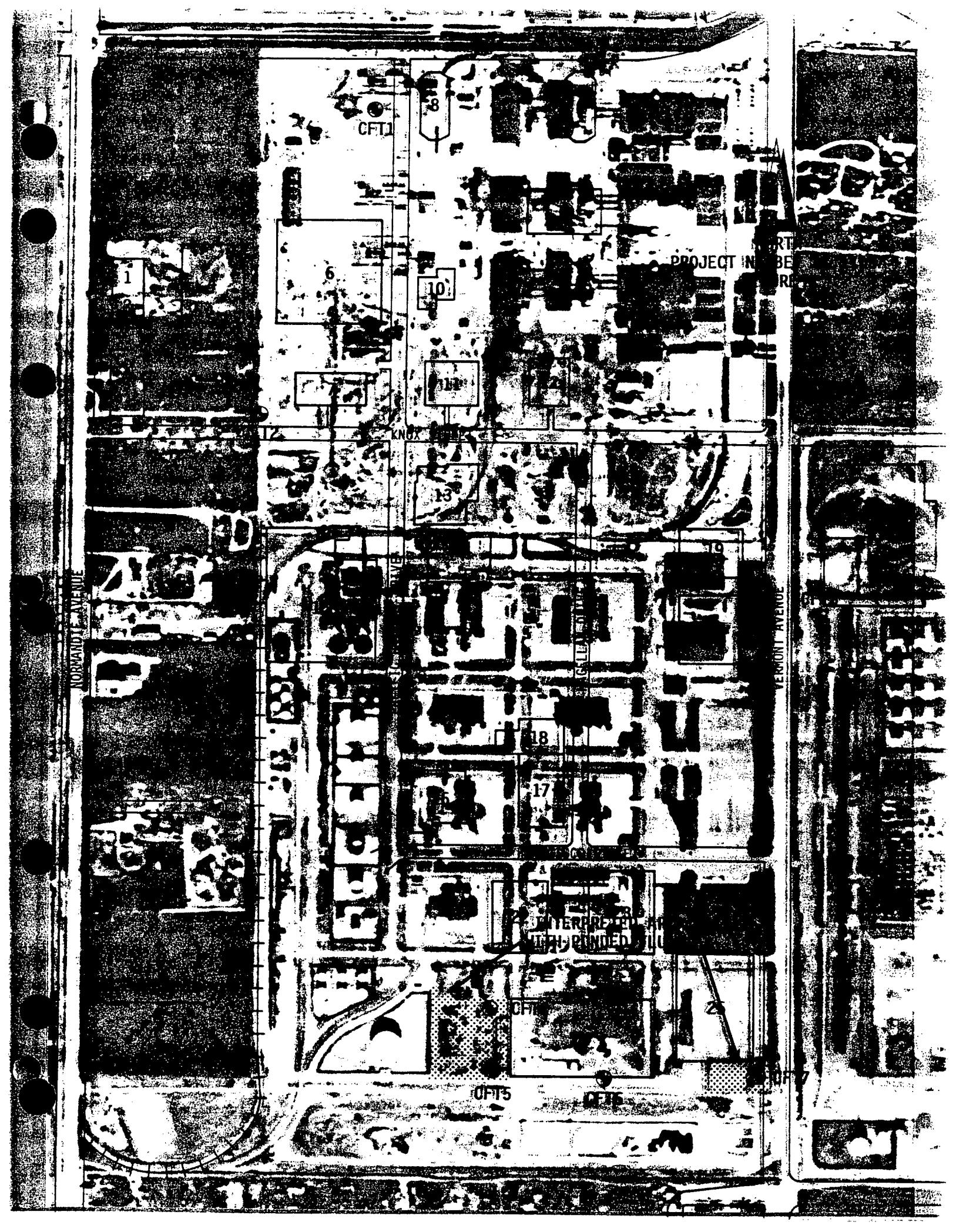
SUPERFUND SITES AND OTHER SELECTED POTENTIAL SOURCES OF ENVIRONMENTAL DEGRADATION IN THE SITE VICINITY

PROJECT NUMBER AG11110A | FIGURE 3



CFT1
8
6
10
1
KNOX
13
19
NORMANDIE AVENUE
VERMONT AVENUE
18
17
CFT5
CFT6

APPENDIX A

FIELD PROCEDURES

APPENDIX A
FIELD PROCEDURES

The procedures that were generally used for drilling the borings and collecting the soil samples were as follows:

- The borings were advanced to depths between approximately 31 feet and approximately 50 feet below the ground surface using an 8-inch hollow-stem auger; augers were steam cleaned between all borings.

- Drilling was conducted by Datum Exploration, Inc. of Long Beach, California under the supervision of Applied Geosciences Inc. personnel.

- Soil samples were collected using a modified California split-barrel sampler lined with brass tubes at approximately five-foot depth intervals.

- The samplers were cleaned between sampling intervals in a soapy water wash, two tap water rinses, and a final deionized water rinse.

- Brass sample tubes were cleaned prior to sample collection in a three- to five-percent sulfuric acid bath, soapy water wash, two tap water rinses and a final deionized water rinse.

- Soil samples collected in the brass tubes were lined with aluminum foil, capped with PVC end caps, secured with electrical tape, and retained for laboratory analysis.

- Soil samples were assigned identification numbers such as CFT1-2-2 where CFT1 indicates Cadillac Fairview Torrance boring number 1, and 2-2 indicates the second sampling interval, second sample tube.

- Boring logs were reviewed by a California-certified engineering geologist.

- Chain-of-custody procedures, including the use of Chain-of-custody forms, were used to document sample handling and transport from collection to delivery to the laboratory for analysis. Chain of custody forms are presented at the end of Appendix C.

- An Hnu Systems OVM equipped with a 10.2 eV probe was used to monitor VOC's during drilling. The OVM was calibrated prior to drilling with factory supplied isobutylene calibration gas. The monitoring involved "sniffing" the annulus of the augers at selected depth intervals and measuring the VOC concentration associated with the soil sample from that depth interval. For these soil samples, a partially-filled sample tube was capped and set aside to allow for VOC's to accumulate in the headspace above the soil. After

approximately 15 to 30 minutes, the VOC concentration was measured with the OVM.

- Borings were backfilled with an approximately 3:1 sand to bentonite mixture. Borings drilled through asphalt pavement were patched at the surface with cold-patch asphalt.

- Soil cuttings generated during drilling were placed in the vacant lot on the southwest corner of 190th Street and Pacific Gateway Drive after permission was obtained to do so by Cadillac.

Soil samples were analyzed by West Coast Analytical Services, Inc., a State-certified laboratory and EPA contract laboratory in Santa Fe Springs, California.

APPENDIX B

BORING LOGS

DRILLING EQUIPMENT: MOBIL DRILL B-61 WITH 8-INCH O.D. HOLLOW STEM AUGER	CFT1	ELEVATION DATUM AND LOCATION: APPROX. 40 FT MSL; SW CORNER 190TH & PACIFIC GATEWAY	
DRILLER: DAVE HOGAN	START DATE: 22 JUNE 1987	BORING DEPTH (FT): 31.5	WELL DEPTH (FT): -
DRILLING COMPANY: DATUM EXPLORATION, INC.	COMPLETION DATE: 22 JUNE 1987	WATER DEPTH (FT): INITIAL - / COMPLETION - / 24Hrs -	
BACKFILL MATERIAL: #60 SILICA SAND AND BENTONITE POWDER	LOGGED BY: GREG VAN HOOK	WELL SCREEN DEPTH (FT): N/A	
BACKFILL SEAL: BENTONITE POWDER	CHECKED BY: JON LOVEGREEN	WELL SCREEN: N/A	
OVM: HnU WITH 10.2 EV PROBE	NO. AND TYPE OF SAMPLE: UNDISTURBED 0	MOD.CA 6	DISTURBED 0

Time	Depth	Lithology Description	Graphic	Well	Blow Count	Blows	OVM Auger	OVM Sample	Sample Type	Sample No.	Comments
		Reddish-brown, damp, very stiff, Silty CLAY (CL)									
	5				36		<1	-	X	CFT1 -1	
	10	At 10 feet becomes stiff and Sandy			22		<1	<1	X	CFT1 -2	
	15	Reddish-brown, medium-dense, Clayey, Silty fine SAND (SC - SM)			11		<1	<1	X	CFT1 -3	
	20	Light-brown, damp to moist, very dense, very fine to medium SAND (SP)			50/6"		<1	<1	X	CFT1 -4	
	25	Light orange-brown, damp, very stiff, Silty CLAY (CL), orange mottling			20		<1	<1	X	CFT1 -5	
	30				32		1.2	<1	X	CFT1 -6	
		Bottom of boring at 31.5 feet									
	35										

PROJECT	PROJECT NO.	LOG OF BORING	FIGURE
CADILLAC FAIRVIEW TORRANCE	AGI1110A	CFT1	B1

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Engineering Geology and Hazardous Materials Consultants

DRILLING EQUIPMENT: MOBIL DRILL B-61 WITH 8-INCH O.D. HOLLOW STEM AUGER	CFT2	ELEVATION DATUM AND LOCATION: APPROX. 40 FT MSL; TRW DRIVEWAY	
DRILLER: DAVE HOGAN	START DATE: 22 JUNE 1987	BORING DEPTH (FT): 31.5	WELL DEPTH (FT): -
DRILLING COMPANY: DATUM EXPLORATION, INC.	COMPLETION DATE: 22 JUNE 1987	WATER DEPTH (FT): INITIAL - / COMPLETION - / 24Hrs -	
BACKFILL MATERIAL: #60 SILICA SAND AND BENTONITE POWDER	LOGGED BY: GREG VAN HOOK	WELL SCREEN DEPTH (FT): N/A	
BACKFILL SEAL: COLD PATCH ASPHALT	CHECKED BY: JON LOVEGREEN	WELL SCREEN: N/A	
OVM: HnU WITH 10.2 EV PROBE	NO. AND TYPE OF SAMPLE: UNDISTURBED 0	MOD.CA 6	DISTURBED 0

Time	Depth	Lithology Description	Graphic	Well	Blow Count	Blows	OVM Auger	OVM Sample	Sample Type	Sample No.	Comments
		ASPHALT									
		Dark-brown, moist, soft, Silty CLAY (CL)									
	5	At 5 feet becomes reddish-brown, damp and hard			58		<1	<1	X	CFT2 -1	Some cuttings contain blackish, plastic-like blobs
	10				39		<1	<1	X	CFT2 -2	
	15	Light-brown, damp, very stiff Clayey, very fine Sandy SILT (ML)			26		<1	<1	X	CFT2 -3	
	20	At 20 feet, clay content increases, less sand			13		<1	<1	X	CFT2 -4	
	25	Light-brown, damp to moist, dense, very fine to medium SAND (SP)			32		<1	<1	X	CFT2 -5	
	30				43/6"		<1	<1	X	CFT2 -6	
		Bottom of boring at 31.5 feet									
	35										

PROJECT	PROJECT NO.	LOG OF BORING	FIGURE
CADILLAC FAIRVIEW TORRANCE	AGI1110A	CFT2	B2

APPLIED GEOSCIENCES INC.
Engineering Geology and Hazardous Materials Consultants

DRILLING EQUIPMENT: MOBIL DRILL B-61 WITH 8-INCH O.D. HOLLOW STEM AUGER	CFT3	ELEVATION DATUM AND LOCATION: APPROX. 40 FT MSL; SILVER REED	
DRILLER: DAVE HOGAN	START DATE: 22 JUNE 1987	BORING DEPTH (FT): 31.5	WELL DEPTH (FT): -
DRILLING COMPANY: DATUM EXPLORATION, INC.	COMPLETION DATE: 22 JUNE 1987	WATER DEPTH (FT): INITIAL - / COMPLETION - / 24Hrs -	
BACKFILL MATERIAL: #60 SILICA SAND AND BENTONITE POWDER	LOGGED BY: GREG VAN HOOK	WELL SCREEN DEPTH (FT): N/A	
BACKFILL SEAL: COLD PATCH ASPHALT	CHECKED BY: JON LOVEGREEN	WELL SCREEN: N/A	
OVM: HnU WITH 10.2 EV PROBE	NO. AND TYPE OF SAMPLE: UNDISTURBED 0	MOD.CA 6	DISTURBED 0

Time	Depth	Lithology Description	Graphic	Well	Blow Count	Blows	OVM Auger	OVM Sample	Sample Type	Sample No.	Comments
		ASPHALT									
		Light reddish-brown, damp, very stiff, Silty CLAY (CL)									
	5				20		<1	2.8	X	CFT3 -1	HnU meter drops below Ø when probe is inserted into auger
	10	Light-brown, damp, hard, Silty, very fine Sandy CLAY (CL)			40		<1	1.6	X	CFT3 -2	
	15	At 15 feet, becomes very stiff and sandy fraction is absent			24		<1	<1	X	CFT3 -3	HnU is operating properly
	20				26		<1	<1	X	CFT3 -4	
	25	Light-brown, moist, medium-dense, very fine to medium SAND (SP)			20		<1	1.0	X	CFT3 -5	
	30	At 30 feet becomes very dense			63		<1	<1	X	CFT3 -6	
		Bottom of boring at 31.5 feet									
	35										

PROJECT	PROJECT NO.	LOG OF BORING	FIGURE
CADILLAC FAIRVIEW TORRANCE	AGI1110A	CFT3	B3

APPLIED GEOSCIENCES INC.
Engineering Geology and Hazardous Materials Consultants

DRILLING EQUIPMENT: MOBIL DRILL B-61 WITH 8-INCH O.D. HOLLOW STEM AUGER	CFT4	ELEVATION DATUM AND LOCATION: APPROX. 40 FT MSL; NIPPON EXPRESS, WEST OF LOADING DOCK	
DRILLER: DAVE HOGAN	START DATE: 23 JUNE 1987	BORING DEPTH (FT): 31.0	WELL DEPTH (FT): -
DRILLING COMPANY: DATUM EXPLORATION, INC.	COMPLETION DATE: 23 JUNE 1987	WATER DEPTH (FT): INITIAL -	COMPLETION - / 24Hrs -
BACKFILL MATERIAL: #60 SILICA SAND AND BENTONITE POWDER	LOGGED BY: GREG VAN HOOK	WELL SCREEN DEPTH (FT): N/A	
BACKFILL SEAL: COLD PATCH ASPHALT	CHECKED BY: JON LOVEGREEN	WELL SCREEN: N/A	
OVM: HnU WITH 10.2 EV PROBE	NO. AND TYPE OF SAMPLE: UNDISTURBED 0	MOD.CA 5	DISTURBED 0

Time	Depth	Lithology Description	Graphic	Well	Blow Count	Blows	OVM Auger	OVM Sample	Sample Type	Sample No.	Comments
		ASPHALT									
		Dark reddish-brown, dry, hard SILT (ML)									
	5				50/6"		-	-			Sampler not full, sample disturbed
		At 8 feet, becomes yellowish-brown and damp									
	10				27		<1	<1	X	CFT4-1	
	15	Yellowish-brown, mottled, damp, hard, Silty CLAY (CL)			60		<1	<1	X	CFT4-2	
	20				46		<1	<1	X	CFT4-3	
	25	At 25 feet, silt content increases			54		<1	<1	X	CFT4-4	
	30				30/6"		<1	<1	X	CFT4-5	
		Bottom of boring at 31.0 feet									
	35										

PROJECT	PROJECT NO.	LOG OF BORING	FIGURE
CADILLAC FAIRVIEW TORRANCE	AGI1110A	CFT4	B4

APPLIED GEOSCIENCES INC.
Engineering Geology and Hazardous Materials Consultants

DRILLING EQUIPMENT: MOBIL DRILL B-61 WITH 8-INCH O.D. HOLLOW STEM AUGER	CFT5	ELEVATION DATUM AND LOCATION: APPROX. 40 FT MSL; NIPPON EXPRESS, SW CORNER PARKING LOT	
DRILLER: DAVE HOGAN	START DATE: 23 JUNE 1987	BORING DEPTH (FT): 41.5	WELL DEPTH (FT): -
DRILLING COMPANY: DATUM EXPLORATION, INC.	COMPLETION DATE: 23 JUNE 1987	WATER DEPTH (FT): INITIAL - / COMPLETION - / 24Hrs -	
BACKFILL MATERIAL: #60 SILICA SAND AND BENTONITE POWDER	LOGGED BY: LYNE HETHRINGTON	WELL SCREEN DEPTH (FT): N/A	
BACKFILL SEAL: COLD PATCH ASPHALT	CHECKED BY: JON LOVEGREEN	WELL SCREEN: N/A	
OVM: HnU WITH 10.2 EV PROBE	NO. AND TYPE OF SAMPLE: UNDISTURBED 0	MOD.CA 4	DISTURBED 0

Time	Depth	Lithology: Description	Graphic	Well	Blow Count	Blows	OVM: Auger	OVM: Sample	Sample: Type	Sample: No.	Comments
		ASPHALT									
		Dark-brown, damp, very stiff, Silty CLAY (CL)									
	5										
	10				20		<1	<1	X	CFT5 -1	
	15	At 15.0 feet silt content increases									
	20	At 20 feet, becomes light-brown and hard			38		<1	<1	X	CFT5 -2	
	25										
	30	At 30 feet, becomes very stiff			18		<1	<1	X	CFT5 -3	
	35										

PROJECT	PROJECT NO.	LOG OF BORING	FIGURE
CADILLAC FAIRVIEW TORRANCE	AGI1110A	CFT5	B5a

APPLIED GEOSCIENCES INC.
Engineering Geology and Hazardous Materials Consultants

Time	Depth	Lithology: Description	Lithology: Graphic	Lithology: Well	Blow Count	Blows	OVM: Auger	OVM: Sample	Sample: Type	Sample: No.	Comments
		Dark-brown, damp, very stiff, Silty CLAY (CL), continued									
	40	At 40 feet, becomes sandy and orange mottled			31		<1	30	X	CFT5 -4	
		Bottom of boring at 41.5 feet									
	45										
	50										
	55										
	60										
	65										
	70										
	75										
	80										

PROJECT	PROJECT NO.	LOG OF BORING (Cont.)	FIGURE
CADILLAC FAIRVIEW TORRANCE	AGI1110A	CFT5	B5b

DRILLING EQUIPMENT: MOBIL DRILL B-61 WITH 8-INCH O.D. HOLLOW STEM AUGER	CFT6	ELEVATION DATUM AND LOCATION: APPROX. 40 FT MSL; NIPPON EXPRESS, CENTER BACK OF PROPERTY	
DRILLER: DAVE HOGAN	START DATE: 23 JUNE 1987	BORING DEPTH (FT): 50.0	WELL DEPTH (FT): -
DRILLING COMPANY: DATUM EXPLORATION, INC.	COMPLETION DATE: 23 JUNE 1987	WATER DEPTH (FT): INITIAL - / COMPLETION - / 24Hrs -	
BACKFILL MATERIAL: #60 SILICA SAND AND BENTONITE POWDER	LOGGED BY: LYNE HETHRINGTON	WELL SCREEN DEPTH (FT): N/A	
BACKFILL SEAL: COLD PATCH ASPHALT	CHECKED BY: JON LOVEGREEN	WELL SCREEN: N/A	
OVM: HnU WITH 10.2 EV PROBE	NO. AND TYPE OF SAMPLE:	UNDISTURBED 0	MOD.CA 5 / DISTURBED 0

Time	Depth	Lithology Description	Graphic	Well	Blow Count	Blows	OVM Auger	OVM Sample	Sample Type	Sample No.	Comments
		ASPHALT									
		Dark-brown, damp, hard, Silty CLAY (CL)									
	5	At 6-8 feet, becomes brown									
	10	Light-brown, damp, hard, Clayey SILT (ML)			38		<1	<1	X	CFT6 -1	
	15										
	20				40		1.8	<1	X	CFT6 -2	
	25	At 25 feet, clay content increases									
	30	Light-brown, damp, very stiff, Silty CLAY (CL)			26		1.0	<1	X	CFT6 -3	
		At 35 feet, clay content increases									
	35										

PROJECT	PROJECT NO.	LOG OF BORING	FIGURE
CADILLAC FAIRVIEW TORRANCE	AGI1110A	CFT6	B6a

APPLIED GEOSCIENCES INC.
Engineering Geology and Hazardous Materials Consultants

Time	Depth	Lithology: Description	Graphic	Well	Blow Count	Blows	OVM: Auger	OVM: Sample	Sample: Type	Sample: No.	Comments
		Light-brown, damp, very stiff, Silty CLAY (CL), continued									
	40	At 40 feet, becomes clay with fragments of shells			26		1.0	<1	X	CFT6 -4	
	45	Light-brown, damp, hard SILT (ML); shell fragments and mica apparent									
	50				70/10"		<1	<1	X	CFT6 -5	
		Bottom of boring at 50.0 feet									
	55										
	60										
	65										
	70										
	75										
	80										

PROJECT	PROJECT NO.	LOG OF BORING (Cont.)	FIGURE
CADILLAC FAIRVIEW TORRANCE	AGI1110A	CFT6	B6b

DRILLING EQUIPMENT: MOBIL DRILL B-61 WITH 8-INCH O.D. HOLLOW STEM AUGER	CFT7	ELEVATION DATUM AND LOCATION: APPROX. 40 FT MSL; NORTH OF DEL AMO SITE	
DRILLER: DAVE HOGAN	START DATE: 23 JUNE 1987	BORING DEPTH (FT): 41.5	WELL DEPTH (FT): -
DRILLING COMPANY: DATUM EXPLORATION, INC.	COMPLETION DATE: 23 JUNE 1987	WATER DEPTH (FT): INITIAL -	COMPLETION - / 24Hrs -
BACKFILL MATERIAL: #60 SILICA SAND AND BENTONITE POWDER	LOGGED BY: LYNE HETHRINGTON	WELL SCREEN DEPTH (FT): N/A	
BACKFILL SEAL: COLD PATCH ASPHALT	CHECKED BY: JON LOVEGREEN	WELL SCREEN: N/A	
OVM: HnU WITH 10.2 EV PROBE	NO. AND TYPE OF SAMPLE:	UNDISTURBED 0	MOD.CA 4 / DISTURBED 0

Time	Depth	Lithology Description	Graphic	Well	Blow Count	Blows	OVM Auger	OVM Sample	Sample Type	Sample No.	Comments
		ASPHALT									
		Dark-brown, damp, very stiff CLAY (CL)									
	5	At 5 feet, becomes light-brown, damp, very stiff and silty									
	10	Light-brown, damp, very stiff, Clayey SILT (ML)			21		<1	<1	X	CFT7 -1	
	15	At 16.5 feet, becomes more clayey									
	20	Light-brown, damp, hard, CLAY (CL)			34		<1	<1	X	CFT7 -2	
	25										
	30	At 30 feet, becomes very stiff			18		<1	<1	X	CFT7 -3	
	35										

PROJECT	PROJECT NO.	LOG OF BORING	FIGURE
CADILLAC FAIRVIEW TORRANCE	AGI1110A	CFT7	B7a

APPLIED GEOSCIENCES INC.
Engineering Geology and Hazardous Materials Consultants

Time	Depth	Lithology: Description	Graphic	Well	Blow Count	Blows	OVM: Auger	OVM: Sample	Sample: Type	Sample: No.	Comments
		Light-brown, damp, hard CLAY (CL), continued									
	40	Light-brown, moist, very dense SAND (SP)			55		<1	<1	X	CFT7 -4	
		Bottom of boring at 41.5 feet									
	45										
	50										
	55										
	60										
	65										
	70										
	75										
	80										

PROJECT	PROJECT NO.	LOG OF BORING (Cont.)	FIGURE
CADILLAC FAIRVIEW TORRANCE	AGI1110A	CFT7	B7b

DRILLING EQUIPMENT		ELEVATION DATUM	
DRILLER	START DATE	BORING DEPTH (FT)	WELL DEPTH (FT)
DRILLING COMPANY	COMPLETION DATE	WATER DEPTH (FT): INITIAL	COMPLETION 24Hrs
BACKFILL MATERIAL	LOGGED BY	WELL SCREEN DEPTH (FT)	
BACKFILL SEAL	CHECKED BY	WELL SCREEN	
OVM	NO. AND TYPE OF SAMPLE:	UNDISTURBED	MOD.CA / DISTURBED

Time	Depth	Lithology: Description	Graphic	Well	Blow Count	Blows	OVM: Auger	OVM: Sample	Sample: Type	Sample: No.	Comments
		Olive-green, wet, loose, Silty SAND (SM)									
	5				12		26	38	☒	CF01 -1	Strong odor (petroleum product?)
	10				15		12	26	▥	CF01 -2	
	15										
	20										
	25										
	30										
	35										

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) DESCRIBED IN FIGURE B10

GRAPHIC PRESENTATION OF LITHOLOGY DESCRIBED IN FIGURE B9

NUMBER OF BLOWS REQUIRED TO ADVANCE SAMPLER ONE FOOT USING A 140-POUND DOWNHOLE HAMMER WITH 30-INCH DROP

ORGANIC VAPOR METER (OVM) READINGS IN PARTS PER MILLION (ppm)

SAMPLE LOCATION AND TYPE

☒ - MODIFIED CALIFORNIA DRIVE SAMPLER

▥ - DAMES & MOORE SAMPLER (D&M)

SAMPLE IDENTIFICATION NUMBER

REMARKS AND COMMENTS BY DRILLER OR INSPECTOR

PROJECT	PROJECT NO.	LOG OF BORING	FIGURE
CADILLAC FAIRVIEW TORRANCE	AGI1110A		B8

APPLIED GEOSCIENCES INC.
Engineering Geology and Hazardous Materials Consultants

LITHOLOGY

- Clayey SAND
- Silty SAND
- SAND
- Sandy SILT
- SILT
- Clayey SILT
- Silty CLAY
- Sandy CLAY
- Gravelly CLAY
- CLAY

OBSERVATION WELL

- BENTONITE
- DRY MIX OF BENTONITE AND SAND
- CEMENT
- CUTTINGS
- BLANK CASINGS
- SLOTTED INTERVAL
- BORING INFILL

APPLIED GEOSCIENCES INC.

Engineering Geology and Hazardous Materials Consultants

BORING LOG KEY

PROJECT NUMBER AGI1110A	FIGURE B9

PRIMARY DIVISIONS			GROUP SYMBOL	SECONDARY DIVISIONS
COARSE GRAINED SOILS MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS (LESS THAN 5% FINES)	GW	Well graded gravels, gravel-sand mixtures, little or no fines.
			GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.
		GRAVEL WITH FINES	GM	Silty gravels, gravel-sand-silt mixtures, non-plastic fines.
			GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines.
	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	CLEAN SANDS (LESS THAN 5% FINES)	SW	Well graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES	SM	Silty sands, sand-silt mixtures, non-plastic fines.
			SC	Clayey sands, sand-clay mixtures, plastic fines.
FINE GRAINED SOILS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT IS LESS THAN 50%		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS LIQUID LIMIT IS GREATER THAN 50%		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays.
			OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS			Pt	Peat and other highly organic soils.

DEFINITION OF TERMS

U.S. STANDARD SERIES SIEVE: 200, 40, 10, 4

CLEAR SQUARE SIEVE OPENINGS: 3/4", 3", 12"

SILTS AND CLAYS	SAND			GRAVEL		COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE		

GRAIN SIZES

SANDS, GRAVELS AND NON-PLASTIC SILTS	BLOWS/FOOT†
VERY LOOSE	0 - 4
LOOSE	4 - 10
MEDIUM DENSE	10 - 30
DENSE	30 - 50
VERY DENSE	OVER 50

RELATIVE DENSITY

CLAYS AND PLASTIC SILTS	STRENGTH‡	BLOWS/FOOT†
VERY SOFT	0 - 1/4	0 - 2
SOFT	1/4 - 1/2	2 - 4
FIRM	1/2 - 1	4 - 8
STIFF	1 - 2	8 - 16
VERY STIFF	2 - 4	16 - 32
HARD	OVER 4	OVER 32

CONSISTENCY

†Number of blows of 140 pound hammer falling 30 inches to drive a 2 inch O.D. (1-3/8 inch I.D.) split spoon (ASTM D-1586).

‡Unconfined compressive strength in tons/sq. ft. as determined by laboratory testing or approximated by the standard penetration test (ASTM D-1586), pocket penetrometer, torvane, or visual observation.

APPLIED GEOSCIENCES INC.

Engineering Geology and Hazardous Materials Consultants

UNIFIED SOIL CLASSIFICATION SYSTEM

PROJECT NUMBER AGI1110A | FIGURE B10

APPENDIX C

LABORATORY REPORTS

July 8, 1987

RECEIVED
JUL 09 1987
APPLIED GEOSCIENCES

WCAS
WEST COAST ANALYTICAL SERVICE, INC.
ANALYTICAL CHEMISTS

APPLIED GEOSCIENCES, INC.
17321 Irvine Blvd.
Tustin, CA 92680

Attn: Greg Van Hook

JOB NO. 6338

LABORATORY REPORT

Samples: Thirty-six (36) soil samples
Date Received: 6-25-87
Purchase Order No: AGI 1110A

The samples were analyzed as follows:

Samples	Analysis	Results
Twenty-two (22) soils	Volatile organics EPA 8240	Data Sheets
Twenty-two (22) soils	Semi-volatile Organics EPA 8270	Data Sheets

Michael Shelton
Senior Chemist

D.J. Northington, Ph.D.
Technical Director

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213/948-2225

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-2-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V1
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-2-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V1
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-2-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B2
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-2-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B2
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-2-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-4-3
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V2
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	50.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	5.
75-27-4	BROMODICHLOROMETHANE	ND	30.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	5.
75-25-2	BROMOFORM	ND	50.
119-78-6	2-HEXANONE	ND	5.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	30.
108-88-3	TOLUENE	ND	5.
		ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-4-3
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V2
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-4-3
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B3
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-4-3
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B3
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-4-3

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-5-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V3
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-5-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V3
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-5-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B4
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-5-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B4
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT1-5-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V4
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V4
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B18
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B18
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-1-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-3-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V5
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-3-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V5
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE.	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-3-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B19
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	30.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	200.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	30.
91-58-7	2-CHLORONAPHTHALENE	ND	200.
88-74-4	2-NITROANILINE	ND	30.
131-11-3	DIMETHYL PHTHALATE	ND	200.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	30.
83-32-9	ACENAPHTHENE	ND	200.
51-28-5	2,4-DINITROPHENOL	ND	30.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	200.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.
		ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-3-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B19
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-3-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-5-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V6
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-5-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V6
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-5-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B20
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-5-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B20
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT2-5-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V7
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V7
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B5
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	30.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	200.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	30.
91-58-7	2-CHLORONAPHTHALENE	ND	200.
88-74-4	2-NITROANILINE	ND	30.
131-11-3	DIMETHYL PHTHALATE	ND	200.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	30.
83-32-9	ACENAPHTHENE	ND	200.
51-28-5	2,4-DINITROPHENOL	ND	30.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	200.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.
		ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B5
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-1-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	UNIDENTIFIED COMPOUND	BNA	1000.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-3-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V8
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-3-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V8
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-3-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B6
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-3-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B6
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-3-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-5-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B7
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	30.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	200.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	30.
91-58-7	2-CHLORONAPHTHALENE	ND	200.
88-74-4	2-NITROANILINE	ND	30.
131-11-3	DIMETHYL PHTHALATE	ND	200.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	30.
83-32-9	ACENAPHTHENE	ND	200.
51-28-5	2,4-DINITROPHENOL	ND	30.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	200.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.
		ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-5-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B7
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-5-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-6-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V11
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT3-6-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V11
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V12
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V12
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B21
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTIO LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B21
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-1-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-2-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V13
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-2-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V13
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-2-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B22
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-2-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B22
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-2-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-4-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B23
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	30.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	200.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	30.
91-58-7	2-CHLORONAPHTHALENE	ND	200.
88-74-4	2-NITROANILINE	ND	30.
131-11-3	DIMETHYL PHTHALATE	ND	200.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	30.
83-32-9	ACENAPHTHENE	ND	200.
51-28-5	2,4-DINITROPHENOL	ND	30.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	200.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.
		ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-4-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B23
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTIO LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-4-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-5-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V14
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT4-5-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V14
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V15
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V15
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B8
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B8
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/03/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-1-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-2-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V16
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-2-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V16
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-2-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B9
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	30.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	200.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	30.
91-58-7	2-CHLORONAPHTHALENE	ND	200.
88-74-4	2-NITROANILINE	ND	30.
131-11-3	DIMETHYL PHTHALATE	ND	200.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	30.
83-32-9	ACENAPHTHENE	ND	200.
51-28-5	2,4-DINITROPHENOL	ND	30.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	200.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.
		ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-2-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B9
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-2-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-3-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V17
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-3-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V17
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-3-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B10
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-3-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B10
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	06/29/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-3-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-4-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V18
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA354	INSTRUMENT ID:	5101
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	6.	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	97.	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

RECEIVED
SEP 16 1987
APPLIED GEOSCIENCES

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-4-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V18
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA354	INSTRUMENT ID:	5101
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-4-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B24
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-4-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B24
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT5-4-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V19
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V19
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B12
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	30.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	200.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	30.
91-58-7	2-CHLORONAPHTHALENE	ND	200.
88-74-4	2-NITROANILINE	ND	30.
131-11-3	DIMETHYL PHTHALATE	ND	200.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	30.
83-32-9	ACENAPHTHENE	ND	200.
51-28-5	2,4-DINITROPHENOL	ND	30.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	200.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.
		ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B12
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-1-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-4-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V29
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA354	INSTRUMENT ID:	5101
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-4-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V29
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA354	INSTRUMENT ID:	5101
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-4-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B15
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-4-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B15
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-4-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-5-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V20
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-5-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V20
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-5-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B16
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-5-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B16
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT6-5-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V30
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA354	INSTRUMENT ID:	5101
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-1-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V30
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA354	INSTRUMENT ID:	5101
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B25
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-1-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B25
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-1-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-2-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V21
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	CHLORODIBROMOMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYLETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-2-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V21
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA511	INSTRUMENT ID:	5100
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-2-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B26
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	30.
91-58-7	2-CHLORONAPHTHALENE	ND	200.
88-74-4	2-NITROANILINE	ND	30.
131-11-3	DIMETHYL PHTHALATE	ND	200.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	30.
83-32-9	ACENAPHTHENE	ND	200.
51-28-5	2,4-DINITROPHENOL	ND	30.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	200.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.
		ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-2-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B26
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-2-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-4-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V31
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA354	INSTRUMENT ID:	5101
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
74-87-3	CHLOROMETHANE	ND	30.
74-83-9	BROMOMETHANE	ND	30.
75-01-4	VINYL CHLORIDE	ND	30.
75-00-3	CHLOROETHANE	ND	30.
75-09-2	METHYLENE CHLORIDE	ND	50.
67-64-1	ACETONE	ND	50.
107-02-8	ACROLEIN	ND	50.
107-13-1	ACRYLONITRILE	ND	50.
75-15-0	CARBON DISULFIDE	ND	5.
75-35-4	1,1-DICHLOROETHENE	ND	5.
75-34-3	1,1-DICHLOROETHANE	ND	5.
156-60-5	TRANS-1,2-DICHLOROETHENE	ND	5.
109-99-9	TETRAHYDROFURAN	ND	5.
75-69-4	TRICHLOROFLUOROMETHANE	ND	5.
76-13-1	FREON-TF	ND	5.
106-93-4	ETHYLENE DIBROMIDE	ND	5.
123-91-1	1,4-DIOXANE	ND	5.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	5.
67-66-3	CHLOROFORM	ND	5.
107-06-2	1,2-DICHLOROETHANE	ND	5.
78-93-3	2-BUTANONE	ND	50.
71-55-6	1,1,1-TRICHLOROETHANE	ND	5.
16-23-5	CARBON TETRACHLORIDE	ND	5.
108-05-4	VINYL ACETATE	ND	30.
75-27-4	BROMODICHLOROMETHANE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	5.
78-87-5	1,2-DICHLOROPROPANE	ND	5.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	5.
79-01-6	TRICHLOROETHENE	ND	5.
124-48-1	DIBROMOCHLOROMETHANE	ND	5.
79-00-5	1,1,2-TRICHLOROETHANE	ND	5.
71-43-2	BENZENE	ND	5.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	5.
110-75-8	2-CHLOROETHYLVINYL ETHER	ND	50.
75-25-2	BROMOFORM	ND	5.
119-78-6	2-HEXANONE	ND	30.
108-10-1	4-METHYL-2-PENTANONE	ND	30.
127-18-4	TETRACHLOROETHENE	ND	5.
108-88-3	TOLUENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-4-2
ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338V31
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/02/87	DATE ANALYZED:	07/02/87
STANDARD ID:	VOA354	INSTRUMENT ID:	5101
SAMPLE AMOUNT:	1.00G		

CAS #	COMPOUND	CONC: UG/KG(PPB)	DETECTION LIMIT
108-90-7	CHLOROBENZENE	ND	5.
100-41-4	ETHYLBENZENE	ND	5.
100-42-5	STYRENE	ND	5.
95-47-6	TOTAL XYLENES	ND	5.
108-41-8	M-CHLOROTOLUENE	ND	5.
95-50-1	1,2-DICHLOROBENZENE	ND	5.
541-73-1	1,3-DICHLOROBENZENE	ND	5.
106-46-7	1,4-DICHLOROBENZENE	ND	5.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-4-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B27
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
108-95-2	PHENOL	ND	30.
111-44-4	BIS(2-CHLOROETHYL)ETHER	ND	30.
95-57-8	2-CHLOROPHENOL	ND	30.
541-73-1	1,3-DICHLOROBENZENE	ND	30.
106-46-7	1,4-DICHLOROBENZENE	ND	30.
100-51-6	BENZYL ALCOHOL	ND	30.
95-50-1	1,2-DICHLOROBENZENE	ND	30.
95-48-7	2-METHYLPHENOL	ND	30.
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	ND	30.
106-44-5	4-METHYLPHENOL	ND	30.
621-64-7	N-NITROSODIPROPYLAMINE	ND	30.
67-72-1	HEXACHLOROETHANE	ND	30.
98-95-3	NITROBENZENE	ND	30.
78-59-1	ISOPHORONE	ND	30.
88-75-5	2-NITROPHENOL	ND	30.
105-67-9	2,4-DIMETHYLPHENOL	ND	30.
65-85-0	BENZOIC ACID	ND	200.
111-91-1	BIS(2-CHLOROETHOXY)METHANE	ND	30.
120-33-2	2,4-DICHLOROPHENOL	ND	30.
120-82-1	1,2,4-TRICHLOROBENZENE	ND	30.
91-20-3	NAPHTHALENE	ND	30.
106-47-8	4-CHLOROANILINE	ND	30.
87-68-3	HEXACHLOROBUTADIENE	ND	30.
59-50-7	4-CHLORO-3-METHYLPHENOL	ND	30.
91-57-6	2-METHYLNAPHTHALENE	ND	30.
77-47-4	HEXACHLOROCYCLOPENTADIENE	ND	30.
88-06-2	2,4,6-TRICHLOROPHENOL	ND	30.
95-95-4	2,4,5-TRICHLOROPHENOL	ND	200.
91-58-7	2-CHLORONAPHTHALENE	ND	30.
88-74-4	2-NITROANILINE	ND	200.
131-11-3	DIMETHYL PHTHALATE	ND	30.
208-96-8	ACENAPHTHYLENE	ND	30.
99-09-2	3-NITROANILINE	ND	200.
83-32-9	ACENAPHTHENE	ND	30.
51-28-5	2,4-DINITROPHENOL	ND	200.
100-02-7	4-NITROPHENOL	ND	200.
132-64-9	DIBENZOFURAN	ND	30.
121-14-2	2,4-DINITROTOLUENE	ND	30.
606-20-2	2,6-DINITROTOLUENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-4-2
ANALYSIS TYPE: EPA METHOD 625 (8270)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:	06/25/87	GCMS FILENAME:	6338B27
LEVEL:	LOW	MATRIX:	SOIL
DATE PREPARED:	07/03/87	DATE ANALYZED:	07/04/87
STANDARD ID:	BNAZ158	GCMS TUNING:	DFTPP38
INSTRUMENT ID:	4500		
SAMPLE AMOUNT:	30G:1ML		

CAS #	COMPOUND	CONC: UG/KG (PPB)	DETECTION LIMIT
84-66-2	DIETHYL PHTHALATE	ND	30.
7005-72-3	4-CHLOROPHENYL PHENYL ETHER	ND	30.
86-73-7	FLUORENE	ND	30.
100-01-6	4-NITROANILINE	ND	200.
534-52-1	4,6-DINITRO-2-METHYLPHENOL	ND	200.
86-30-6	N-NITROSODIPHENYLAMINE	ND	30.
101-55-3	4-BROMOPHENYL PHENYL ETHER	ND	30.
118-74-1	HEXACHLOROBENZENE	ND	30.
87-86-5	PENTACHLOROPHENOL	ND	200.
85-01-8	PHENANTHRENE	ND	30.
120-12-7	ANTHRACENE	ND	30.
84-74-2	DI-N-BUTYL PHTHALATE	ND	30.
206-44-0	FLUORANTHENE	ND	30.
129-00-0	PYRENE	ND	30.
85-68-7	BUTYL BENZYL PHTHALATE	ND	30.
91-94-1	3,3'-DICHLOROBENZIDINE	ND	70.
56-55-3	BENZO(A)ANTHRACENE	ND	30.
117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	30.
218-01-9	CHRYSENE	ND	30.
117-84-0	DI-N-OCTYL PHTHALATE	ND	30.
205-99-2	BENZO(B & K)FLUORANTHENES	ND	30.
50-32-8	BENZO(A)PYRENE	ND	30.
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	30.
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	30.
191-24-2	BENZO(GHI)PERYLENE	ND	30.

WEST COAST ANALYTICAL SERVICE, INC.

CLIENT: APPLIED GEOSCIENCES
SITE: CADILLAC FAIRVIEW
SAMPLE: CFT7-4-2

TENTATIVELY IDENTIFIED COMPOUNDS

	COMPOUND NAME	FRACTION	CONCENTRATION UG/KG (PPB)
1	NONE FOUND	VOA/BNA	

Data Reporting Qualifiers

Value - If the result is a value greater than or equal to the Detection Limit (DL), the value is reported.

ND - Indicates that the compound was analyzed for but not detected. The minimum DL for the sample with the ND is reported based on necessary concentration or dilution actions.

TR - Indicates an estimated value. This flag is used when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified DL but greater than zero.

APPLIED GEOSCIENCES INC.

SHIPMENT NO.: 1

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

DATE 24 JUNE 1987

PROJECT NAME: CADILLAC FAIRVIEW/PACIFIC GATEWAY

PROJECT NO.: AGI1110A

Sample Number	Location	Type of Sample: Material	Type of Sample: Method	Type of Container	Type of Preservation: Temp	Type of Preservation: Chemical	Analysis Required*
CFT1-1-2	CFT1	SOIL	MOD. CA.	BRASS TUBE	40-50°F	ICE	
CFT1-2-2							8240 8270
CFT1-3-2							
CFT1-4-3							8240, 8270
CFT1-5-2							8240, 8270
CFT1-6-2							
CFT2-1-2	CFT2						8240 8270
CFT2-2-2							
CFT2-3-2							8240 8270
CFT2-4-2							
CFT2-5-2							8240, 8270
CFT2-6-2							
CFT3-1-2	CFT3						8240, 8270
CFT3-2-2							
CFT3-3-2							8240 8270
CFT3-4-1							
CFT3-5-2							8270
CFT3-6-2							8240
CFT4-1-2	CFT4						8240 8270
CFT4-2-2							8240 8270

Total Number of Samples Shipped: | Sampler's Signature:

Relinquished By:	Received By:	Date / Time
Signature: P Roberts Printed Name: Paul Roberts Company: Applied Geosciences Inc. Reason: To Lab	Signature: Mary Cederwall Printed Name: Mary Cederwall Company: WCAS, Inc. #6338	Date: 6/25/87 Time: 9:50 A.
Signature: Printed Name: Company: Reason:	Signature: Printed Name: Company:	Date: / / Time:
Signature: Printed Name: Company: Reason:	Signature: Printed Name: Company:	Date: / / Time:
Signature: Printed Name: Company: Reason:	Signature: Printed Name: Company:	Date: / / Time:

Special Shipment / Handling / Storage Requirements:

* Note — This does not constitute authorization to proceed with analysis

APPLIED GEOSCIENCES INC.

SHIPMENT NO.: 1

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

DATE 24 JUN 87

PROJECT NAME: CADILLAC FAIRVIEW/PACIFIC GATEWAY

PROJECT NO.: A6I1110 A

Sample Number	Location	Type of Sample		Type of Container	Type of Preservation		Analysis Required*
		Material	Method		Temp	Chemical	
CFT4-3-2	CFT4	SOIL	MOD. CA.	BRASS TUBE	40-50°F	ICE	
CFT4-4-2	↓	↓	↓	↓	↓	↓	8270
CFT4-5-2	↓	↓	↓	↓	↓	↓	8240
CFT5-1-2	CFT5	↓	↓	↓	↓	↓	8240 8270
CFT5-2-2	↓	↓	↓	↓	↓	↓	8240 8270
CFT5-3-2	↓	↓	↓	↓	↓	↓	8240 8270
CFT5-4-2	↓	↓	↓	↓	↓	↓	8240 8270
CFT6-1-2	CFT6	↓	↓	↓	↓	↓	8240 8270
CFT6-2-2	↓	↓	↓	↓	↓	↓	
CFT6-3-2	↓	↓	↓	↓	↓	↓	
CFT6-4-2	↓	↓	↓	↓	↓	↓	8240 8270
CFT6-5-2	↓	↓	↓	↓	↓	↓	8240 8270
CFT7-1-2	CFT7	↓	↓	↓	↓	↓	8240 8270
CFT7-2-2	↓	↓	↓	↓	↓	↓	8240 8270
CFT7-3-2	↓	↓	↓	↓	↓	↓	
CFT7-4-2	↓	↓	↓	↓	↓	↓	8240 8270

Total Number of Samples Shipped: 36 | Sampler's Signature: D. Van Hook

Relinquished By:	Received By:	Date / Time
Signature: D Van Hook Printed Name: GREG VAN HOOK Company: APPLIED GEOSCIENCES INC Reason: LAB TESTS	Signature: Mary Cederwall Printed Name: Mary Cederwall Company: WCAS, Inc. #6338	Date: 6/25/87 Time: 9:50 AM
Relinquished By: Signature: Printed Name: Company: Reason:	Received By: Signature: Printed Name: Company:	Date: / / Time:
Relinquished By: Signature: Printed Name: Company: Reason:	Received By: Signature: Printed Name: Company:	Date: / / Time:
Relinquished By: Signature: Printed Name: Company: Reason:	Received By: Signature: Printed Name: Company:	Date: / / Time:

Special Shipment / Handling / Storage Requirements:

* Note — This does not constitute authorization to proceed with analysis

CONVERSE ENVIRONMENTAL WEST

[redacted]2
0639-2337

REPORT

PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT

19310 PACIFIC GATEWAY DRIVE
LOS ANGELES, CALIFORNIA

PREPARED FOR:

Pacific Bell
177 E. Colorado Boulevard
Pasadena, California

CEW Project Number 89-41-636-01
December 21, 1989

REPORT

PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT

PACIFIC BELL (A5-615)
19310 PACIFIC GATEWAY DRIVE
LOS ANGELES, CALIFORNIA

PREPARED FOR

Pacific Bell
177 E. Colorado Boulevard
Pasadena, California

CEW Project No. 89-41-636-01

December 28, 1989

CONVERSE ENVIRONMENTAL WEST

67 West Bellevue Drive
Suite B
Pasadena, California 91105-2501

Telephone 818 / 796-8200

December 28, 1989

Mr. Zolton Kucharik
Pacific Bell
177 E. Colorado Blvd., Rm 920
Pasadena, California

Subject: **PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT**
19310 Pacific Gateway Drive
Los Angeles, California
CEW Project No. 89-41-636-01

Dear Mr. Kucharik:

This letter transmits results of the preliminary environmental site assessment conducted at the Pacific Bell facility located at 19310 Pacific Gateway Drive in Los Angeles, California.

Converse Environmental West (CEW) completed the preliminary site assessment which included subsurface drilling, sampling, and laboratory testing to determine the presence or absence of soil contamination at the site and identify areas of potential environmental concern on or near the site. The scope of work included site history review, site and vicinity inspection, review of available agency records, analysis and evaluation of analytical test results, and preparation of this report.

Converse Environmental West appreciates the opportunity to be of continued service. Please call the undersigned if you have any questions regarding this report.

Sincerely,

CONVERSE ENVIRONMENTAL WEST

John A. Campbell
Vice President

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PROFESSIONAL CERTIFICATION

REGISTERED GEOLOGIST
STEVEN T. GRISWOLD
NO. 1457
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Steven T. Griswold, CEG
Project Engineering Geologist

This report has been prepared by Converse Environmental West under the professional supervision of the person whose seal and signature appear hereon.

This report has been prepared for the exclusive use of Pacific Bell as it pertains to the property located at 19310 Pacific Gateway Drive, Los Angeles, California. Our services have been performed in accordance with applicable County ordinances and generally accepted practices in geosciences. No other warranty, either express or implied, is made.

Converse Environmental West (CEW) is not responsible or liable for any claims or damages associated with interpretation of available information. This report should not be regarded as a guarantee that no further contamination, beyond that which was detected in our investigation, is present beneath the property. In the event that any changes in the nature of the property occur or additional, relevant information about the property is brought to our attention, the conclusions and recommendations contained in this report may not be valid unless these changes and additional relevant information are reviewed and conclusions of this report are modified or verified in writing.

1.0 INTRODUCTION

This report presents the findings of the preliminary environmental site assessment (PSA) for the property located at 19310 Pacific Gateway Drive, Los Angeles, California (Figure 1). Assessment work was conducted to identify and evaluate areas of potential environmental concern on or near the subject property. The scope of our investigation includes the following:

- Site History Review: Available records, documents and aerial photographs were reviewed to establish a site-use history for the property.

- Site and Vicinity Inspection: Field reconnaissance of the property was conducted for evidence of contamination, potential sources of contamination and the presence of regulated hazardous substances. The vicinity of the site was visually inspected to assess the potential for impact to the property from off-site sources.

- Regulatory Agency Records Review: Available regulatory agency records and published lists were inspected to ascertain whether violations or environmental impairments known to the agencies exist at the site or vicinity.

- Subsurface Exploration and Analytical Testing: Nine borings were drilled, logged, and sampled at the site to investigate the possible presence of soil contamination below existing pavement.

2.0 SITE DESCRIPTION

The Pacific Bell property is located in Los Angeles, California, near the intersection of Pacific Gateway Drive and 190th Street, approximately 0.25 mile south of the San Diego Freeway (Figure 1). Surface elevation at the site is approximately 39 feet above sea level. Local terrain is relatively flat and slopes to the east at a grade of approximately 0.002 feet per foot.

Structures present at the subject site include a vehicle maintenance building, an office building, a parking area, two 10,000-gallon underground unleaded fuel storage tanks (installed in 1980), and one 550-gallon underground waste oil tank (installed in 1980). Location of the buildings and underground tanks are shown on Figure 2.

3.0 GEOLOGY

The property lies within the southwestern structural block of the Los Angeles Basin as identified by Yerkes et. al. (1965), approximately 1.25 miles south of the Dominguez Hills on the Torrance Plain (California Department of Water Resources, CDWR, 1961). The Dominguez Hills are a series of low-lying, northwest-trending anticlinal domes bounded on the east by the Newport-Inglewood fault zone.

The area is underlain by Holocene age (less than 10,000 years old) alluvium and a thick section of unconsolidated marine and continental deposits of Pleistocene age (approximately 10,000 to 1.6 million years old). The Pleistocene deposits consist of varying amounts of gravel, sand, silt, and clay, with discontinuous permeable zones. These units are subdivided into the Lakewood formation, which occurs near the surface and is approximately 190 feet thick in the site vicinity, and the deeper San Pedro formation. Collectively, the Lakewood and San Pedro formations constitute the primary water-bearing sediments in the area (CDWR, 1961).

4.0 HYDROGEOLOGY

The site lies within the West Coast Ground Water Basin (CDWR, 1961), bounded on the northeast by the Newport-Inglewood fault zone. The fault zone is approximately 5.5 miles northeast of the site and acts as a barrier to ground water movement. In the property area, the Lakewood formation contains an upper member of relatively impermeable materials known as the Bellflower Aquitard. This unit is approximately 120 feet thick at this locality and consists largely of interlayered silts and clays. The unit also contains lenses of sandy clays capable of forming discontinuous perched saturated zones.

Ground water maps compiled by the Los Angeles County Flood Control District (LACFCD, 1987) indicate ground water is present at a depth of approximately 90 feet below grade in the site vicinity (Figure 3). Ground water was not encountered in borings drilled to a depth of 40 feet below grade on August 8, 1988 (CEW Project No. 87-41-192-01).

5.0 SITE HISTORY

To establish a use history for the property, available records from the following sources were reviewed:

- City of Los Angeles Department of Building and Safety. The Department of Building and Safety holds building permits and other pertinent records.

- County of Los Angeles, Department of Public Works (LADPW). The LADPW issues permits for installation and removal of underground tanks for the County of Los Angeles.

- City of Los Angeles Fire Department (LAFD). The LAFD issues permits for installation and removal of underground tanks for the City of Los Angeles.

- The Spence Aerial Photograph collection at the University of California, Los Angeles (U.C.L.A.).

- The Sanborn Fire Insurance maps at California Sate University Northridge.

A review of records at the City of Los Angeles Department of Building and Safety indicate that the present structures are the only buildings for which permits have been issued for the referenced property. Both structures on the site have applications for certificate of occupancy dated November 1, 1978. Compaction reports available from the Department of Building and Safety were examined for the nature of artificial fill compacted at the site. The records do not indicate the lateral extent of fill, the composition of the gravel component of fill, the source of imported component of fill, or a site plan showing depth of fill. However, records make reference to the placement of fill in subsurface vault areas and fill depths of up to 20 feet at the site (Appendix C).

A review of City of Los Angeles Fire Department records indicate that underground tanks presently onsite are the only tanks that have been permitted to operate on the subject property.

Pacific Bell, to maintain compliance with state and federal underground tank regulations, contracted Converse Environmental West (CEW) to install overfill protection devices on the two unleaded gasoline underground storage tanks referenced above. CEW began installation of overfill protection devices on the fill risers of the two storage tanks on March 21, 1989 (CEW Project No. 87-41-192-01). During installation of the overfill protection devices, visual inspection of subsurface soils identified hydrocarbon contamination around the fill risers.

Subsequent subsurface investigations (soil sampling by hand augering) indicated that the hydrocarbon contamination appeared to be restricted to the fill riser locations (CEW Project No 89-41-192-02). The removal and disposal of soils immediately around the fill risers and the installation of overfill protection boxes has minimized the potential for spillage or further migration of contamination within the impacted area.

A review of the Sanborn Fire Insurance maps provided no information as the area of coverage for the maps did not include the subject property.

A review of aerial photographs of the site vicinity from 1923 through 1975 only provide limited coverage of the subject property. The aerial photographic coverage was either a partial image on the edge of a photograph or at a scale not appropriate to site specific interpretation. Therefore, conclusive information on the site history based on aerial photographs is not available. It appears, however, that petroleum refining operations occupied land immediately adjacent to the east end of the subject site in photos from 1968, with associated overhead piping possibly traversing the site.

6.0 SITE INSPECTION

Converse Environmental West (CEW) personnel inspected the property on November 29, 1989 to assess general site conditions and identify areas of potential environmental concern. The inspection consisted of a walk-through and visual inspection of the subject property.

The property is rectangular in shape measuring approximately 756 feet by 397 feet and contains one two-story concrete office building and one steel-framed, masonry block construction vehicle maintenance/storage building. Both buildings are surrounded by vehicle parking for Pacific Bell employees.

The property has numerous exterior material storage areas including two portable enclosed storage containers and a concrete pad for material storage at the northwest and northeast corners of the vehicle maintenance/storage building, respectively. The east boundary of the property is almost entirely occupied by various uncovered storage areas, some separated by block walls.

The two portable storage containers are used for parts storage for fleet vehicles, welding materials, and portable equipment such as generators and hydraulic compressors. The uncovered storage pad at the northeast corner of the vehicle maintenance/storage building contains generators, hydraulic energy units, and electrical equipment. The uncovered storage area on the east boundary of the property, is used for storing telephone wire and equipment. In addition, there was one fenced-in, metal roofed structure located at the south end of the uncovered storage area that has a placard labeled "Danger, Hazardous Materials". The fenced-in area contains equipment for installing telephone lines and partially full and empty cable spools. No materials considered to be hazardous were evident in the fenced-in area during the site visit.

The walled-off storage areas contain metal nitrogen bottles, gravel, and empty cable spools. The remainder of the surface storage area appears to contain large cable spools with varying amounts of cable. There are a few empty 55-gallon steel drums labeled as previously containing motor oil and transmission fluid located beside the portable storage containers. In addition, a number of full or partially full 55-gallons steel drums containing motor oil and transmission fluid are located in a concrete-floored drum storage room in the vehicle maintenance building. Minor spillage of these stored petroleum products onto the concrete floor was absorbed with vermiculite.

As noted above, there are three underground storage tanks on the property; two 10,000-gallon unleaded gasoline tanks and one 550-gallon waste oil storage tank. There is also an underground clarifier of unspecified capacity located east of the gasoline dispenser pump island.

The property, where not covered with buildings, is covered with either concrete or asphalt paving. There are areas of minor oil-type staining located at various locations around the property; however, the staining is not considered to be an environmental hazard and is consistent with the use and maintenance of fleet vehicles.

A total of 6 transformers were observed on the subject property. There is one Los Angeles Department of Water and Power transformer (LADWP, personal communication, 1989), installed in 1979, which has not been tested for the presence polychlorinated biphenyls (PCB's). Three downstream distribution transformers were observed in the terminal/electrical room on the first floor of the office building on the west side of the property. Two additional downstream distribution transformers were observed in the garage section of the vehicle maintenance/storage building.

No suspected asbestos-containing materials were observed in buildings during the site inspection. However, a PSA is not a comprehensive asbestos survey and the presence or absence of asbestos-containing material (ACM) in buildings on the subject property has not been conclusively resolved.

7.0 REGULATORY AGENCY RECORDS

According to records held by the County of Los Angeles, Department of Public Works and the City of Los Angeles Fire Department, there are 27 permitted underground tanks in immediate vicinity of the subject property (Table 1).

Additional research at the Los Angeles Fire Department, San Pedro District Office (Inspectors Woodward and Franco, personal communication, 1989), revealed that the Shell Oil Company demolished a refinery and tank farm located approximately 1,000 feet east of the subject property. The Shell refinery was located south of 190th Street and east of Vermont Avenue and was demolished in 1981. It is believed that this demolished Shell refinery is the facility interpreted to be the petroleum refinery in the 1968 aerial photograph.

Review of the California Bond Expenditure Plan (1984) indicates that there is a National Priority List (CERCLA Superfund) site approximately 3,000 feet southwest of the subject property. This NPL site, the former Montrose Chemical Corporation plant, is listed as both a national and state of California priority site for clean-up. In addition, another state of California priority site, the Del Amo Site, is approximately 3200 feet south of the subject property.

The Montrose Chemical Corporation operated the 13 acre dichlorodiphenyl-trichloroethane (DDT) manufacturing plant from 1947 to 1982 and subsequently dismantled the plant in 1985. Sampling results indicate that onsite soils contain 300 to 400 tons of DDT throughout the former facility. Other substances of concern that were also detected in the investigation include monochlorobenzene (MCB), dichlorobenzene (and isomers), chloroform, acetone, benzene hexachloride (BHC and isomers), and benzene. Prior to asphalt capping, DDT-contaminated dust was transported into the nearby residences. Ground water and soils beneath the site are contaminated and may be a threat to usable aquifers. The EPA is currently conducting a remedial investigation/feasibility study (RI/FS) which is scheduled to be completed in January 1990.

The Del Amo Site consists of a number of waste disposal ponds and sumps used during the manufacture of synthetic rubber in the 1950's and 1960's. The disposal areas have subsequently been covered with soil. High levels of polynuclear aromatic hydrocyarbons (PNA's) and volatile organic compounds (VOC's) exist in subsurface soils. Ground water underlying the site has been found to be contaminated with VOC's, primarily benzene and toluene. Site cleanup is scheduled to begin in 1993.

A review of known landfills (Major Waste Systems, 1973) within a one-mile radius of the subject property indicate that there are 18 known active and inactive landfills in the site vicinity (Table 2) as summarized on the following page:

CLASS	ACTIVE	INACTIVE
I	0	0
II	0	6
III	1	1
UNKNOWN	1	9

A review of records for leaking underground tanks (California Regional Water Quality Control Board, 1989) within a one mile radius of the subject property indicates 11 leaking underground tanks at 8 different facilities. The location of these 11 underground tank leaks and the NPL sites are shown in Figure 4. Table 3 lists the underground tank leak locations and NPL sites shown in Figure 4 along with facility name, address, affected resource, status, and substance released.

Although no documentation pertaining to ground water contamination was found during the records review, the site is in close proximity to the above referenced Shell Oil Company refinery, the NPL sites, the underground tank releases, and the landfills. However, groundwater beneath the subject property has not been evaluated for this assessment.

8.0 EXPLORATORY SOIL BORINGS

8.1 Drilling and Sampling

On December 13 and 14, 1989, 9 borings, BH-1 through BH-9, were drilled by hand-auger method. The locations of the borings are shown on Figure 2 and were chosen to intercept potential DDT and hydrocarbon contamination in near-surface soils at selected points throughout the parking areas. Borings were advanced to depths ranging from 3 to 7 feet and were logged by a geologist under the direct supervision of a California-registered geologist. Boring logs are presented in Appendix A.

While hand-augering borings BH-7 and BH-8, suspected asbestos-containing material (ACM) was encountered at depths of approximately 2 feet in both borings and samples were collected for later analysis. The suspected ACM appeared to be discarded and buried fragments of a large diameter pipe or vessel and both measured about 6 inches by 6 inches.

Soils were collected from the depths specified on the boring logs and were placed into laboratory-prepared glass jars. Sample jars were then sealed with Teflon coated lids and refrigerated for transport. Soil sampling equipment was cleaned with trisodium phosphate prior to sampling, between sample intervals, and between drill sites to minimize the possibility of cross-contamination. Samples were handled and transported according to EPA protocol, including chain-of-custody procedures. Chain-of-custody documents are presented in Appendix B.

8.2 Laboratory Methods

As shown on the boring logs in Appendix A, two discrete soil samples were collected from each boring, one from near the ground surface and one from the bottom of each boring. For each boring, the two discrete samples were composited into a single sample for analysis. The composite samples were analyzed for organochlorine pesticides and PCB's using electron capture detection (GC-ECD) in accordance with EPA method 8080, and for volatile organic compounds (VOC) using gas chromatography/mass spectroscopy (GS/MS) in accordance with EPA method 8240. Results are reported in milligrams per kilogram (mg/kg) for method 8080 and method 8240.

Both samples of suspected asbestos-containing material collected from borings BH-8 and BH-9 were split and submitted to two California-state certified laboratories. To determine the mineralogic composition of the suspected ACM, a small amount of material is immersed in a solution and mounted on a glass slide for visual examination under a petrographic microscope.

8.3 Analytical Results

Detectable levels of organochlorine pesticides (DDT and degradation products DDE and DDD) were reported for samples obtained from soil borings as outlined in the table below. The background levels of DDT for the Montrose site were determined to be 2 ppm from samples taken over 3 miles upwind from the site (USEPA, 1988). Refer to copies of analytical laboratory reports provided in Appendix B.

Concentrations of Organochlorine Pesticides
Detected in Soil Borings

Contaminant	Borings								
	BH-1	BH-2	BH-3	BH-4	BH-5	BH-6	BH-7	BH-8	BH-9
p,p'-DDD	.006	.025	.012	ND	.039	ND	.033	ND	ND
p,p'-DDE	ND	ND	.012	ND	.058	ND	.051	.005	ND
p,p'-DDT	.012	.063	.065	ND	.021	ND	.013	.017	ND

Detection limit = .005 mg/kg
ND = Not Detected

Results of laboratory analysis of the suspected ACM from borings BH-7 and BH-8 indicate that the samples contain a minimum of 40 percent asbestos minerals, primarily chrysotile and crocidolite. Analytical test results are presented in Appendix B.

9.0 CONCLUSIONS

Several areas of potential environmental impact were identified in this preliminary site assessment. These include the following:

- **Underground Storage Tanks**
  Two underground gasoline storage tanks, one underground waste oil tank, and one underground clarifier are present at the site. Assessment of the underground gasoline tanks has been conducted by CEW (Project No. 87-41-192-02). No assessment of the waste oil tank or clarifier area has been conducted as of this date.

- **Transformers**
  Six transformers were observed onsite. Records either do not exist or indicate testing for the presence of PCB's has not been performed.

- **ACM in Subsurface Soils**
  Two samples of asbestos-containing material were recovered from subsurface soils. Asbestos is regulated as a hazardous waste. Excavation or removal of asbestos contaminated soils requires special handling and disposal procedures. If, however, the onsite soils are left undisturbed, there is no imminent environmental hazard that would require special attention. It is recommended that should future plans include disturbing existing subsurface soils that the extent and amount of subsurface asbestos-containing materials be determined.

- **DDT and Related Compounds in Subsurface Soils**
  Detectable levels of organochlorine pesticides were reported for samples obtained from soil borings. The reported concentrations of DDT are below the background level in the area as reported by the EPA.

- **Possible Ground Water Contamination**
  Contamination from offsite sources may have impacted ground water underlying the site. Although no documentation pertaining to ground water contamination was found during the records review and no ground water monitoring wells were installed as part of this assessment, the site is in the proximity of refineries, NPL sites, documented underground tank leaks, and landfills.

REFERENCES

1) California Department of Health Services, Health and Welfare Agency, Toxic Substance Control Division, 1989, Expenditure Plan for the Substance Cleanup Bond Act of 1984, Revision No.4.

2) California Department of Water Resources (CDWR), 1961, Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, Appendix A, Ground Water Geology, CDWR Bulletin No.104, 181p.

3) California Regional Water Quality Control Board, Los Angeles Region (4), Underground Storage Tank Leak List in Los Angeles County and Ventura County, 1989.

4) California State University Northridge, 1989, Sanborn Fire Insurance Maps.

5) City of Los Angeles, Department of Building and Safety, Counter E., Building and Safety Records.

6) City of Los Angeles, Department of Water and Power, Don Giddings, personal communication.

7) City of Los Angeles Fire Department, San Pedro District Offices, Inspectors Woodward and Franco, personal communication.

8) Flood Control Data Systems, Inc., 1988, Los Angeles County Hazardous Waste and Substance Site, 1st edition.

9) Los Angeles County, Department of County Engineering 1976, Index of Solid Waste and Liquid Industrial Waste Disposal Sites.

10) Los Angeles County, Department of Public Works, 1989, Tank Location List.

11) Los Angeles County, Project Planning and Pollution Control Division, 1973, Major Waste Systems, The Countywide General Plan.

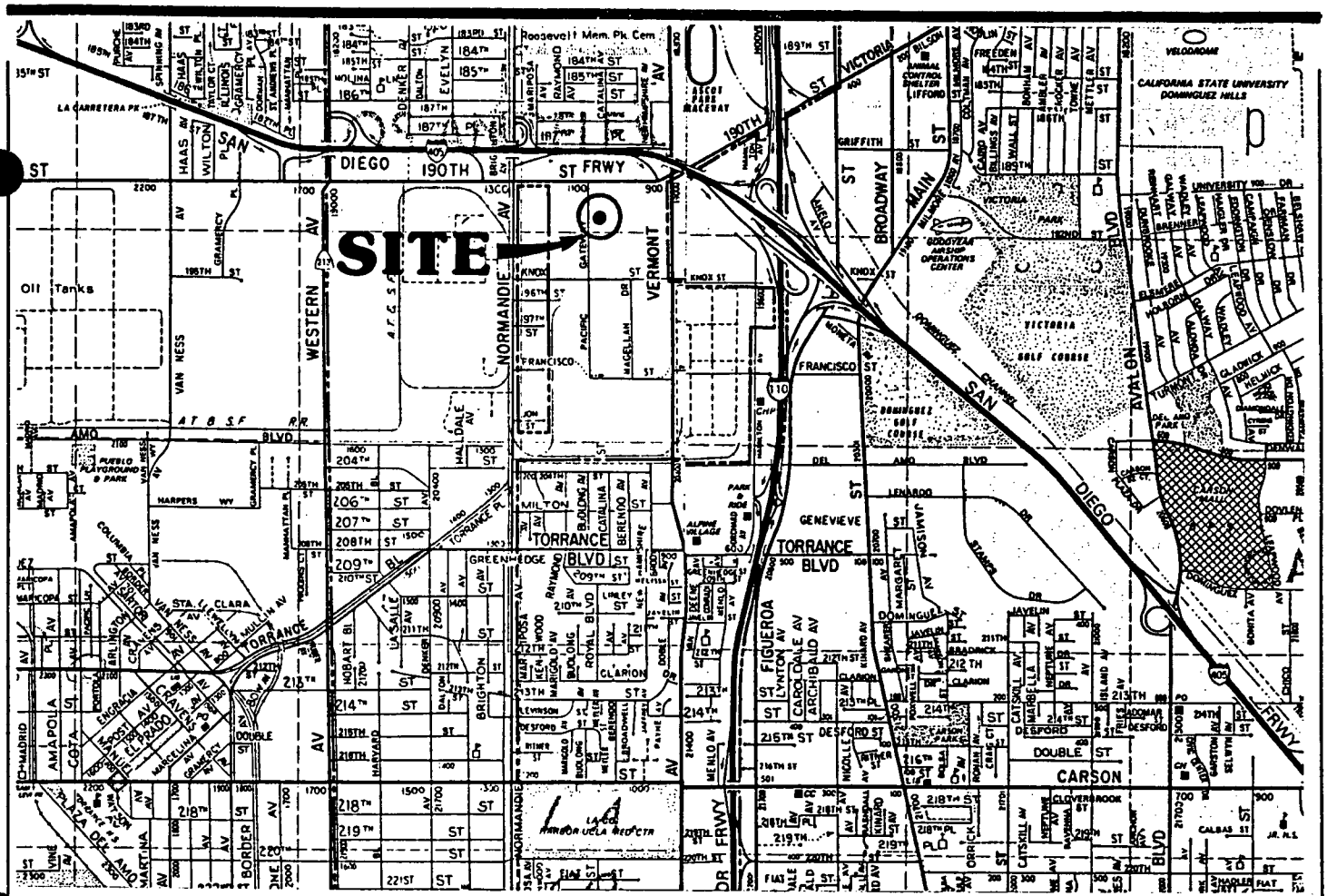
12) Los Angeles Flood Control District, 1986, Coastal Plain Deep Aquifer Ground Water Contour Map.

13) Spence Airphoto Collection, University of California, Los Angeles, Coverage dated 6-1-66 and 2-2-68.

14) U.S. Environmental Protection Agency, Fact Sheet, 1988, Montrose Chemical Corporation Superfund Site, December 1988.

15) Yerkes, R.F., McCoulloh, T.H., Schoellhamer, J.E., and Vedder, J.G., 1965, Geology of the Los Angeles Basin -- An Introduction, U.S. Geological Survey Professional Paper 420-A, 57p.

FIGURES

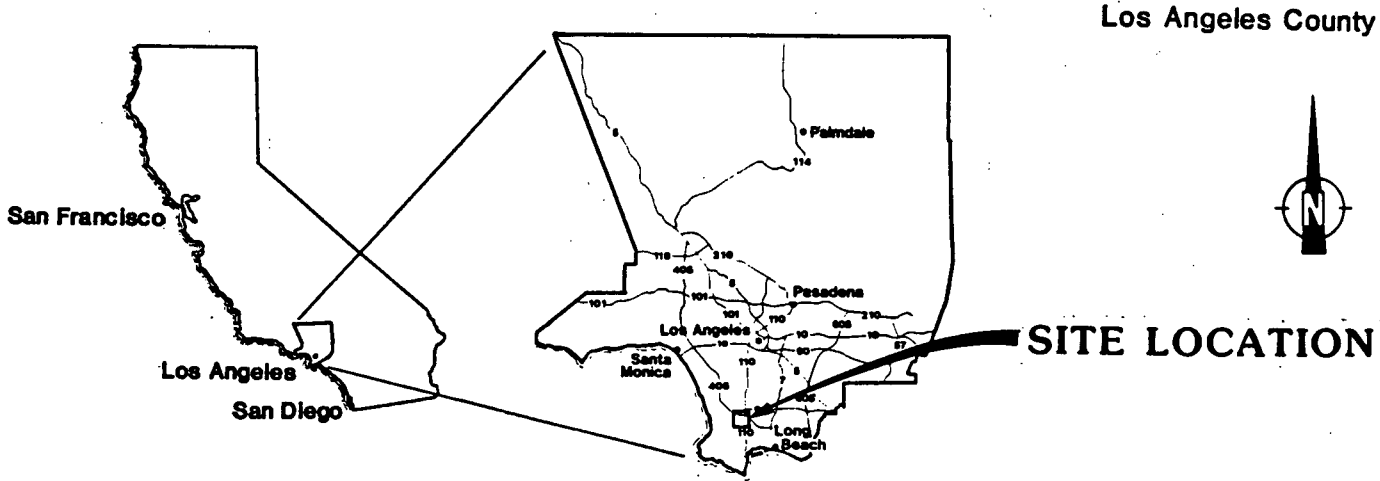


REFERENCE:

Thomas Brothers Guide, Los Angeles County, 1989 edition, pages 68 and 69.

0 1/4 1/2 1

SCALE IN MILES



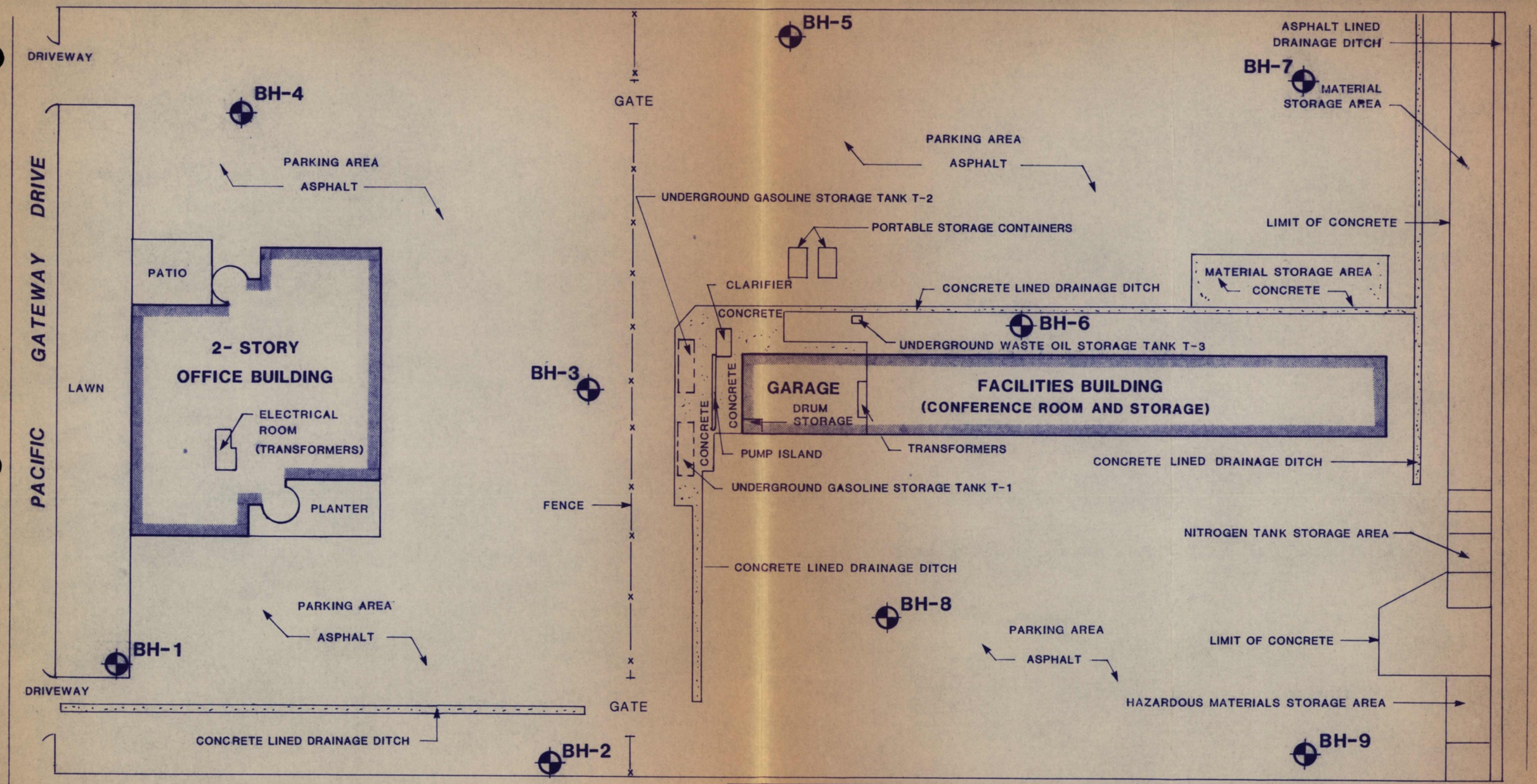
SITE LOCATION MAP

PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Project No.
89-41-636-01

Figure No.
1

CONVERSE ENVIRONMENTAL WEST



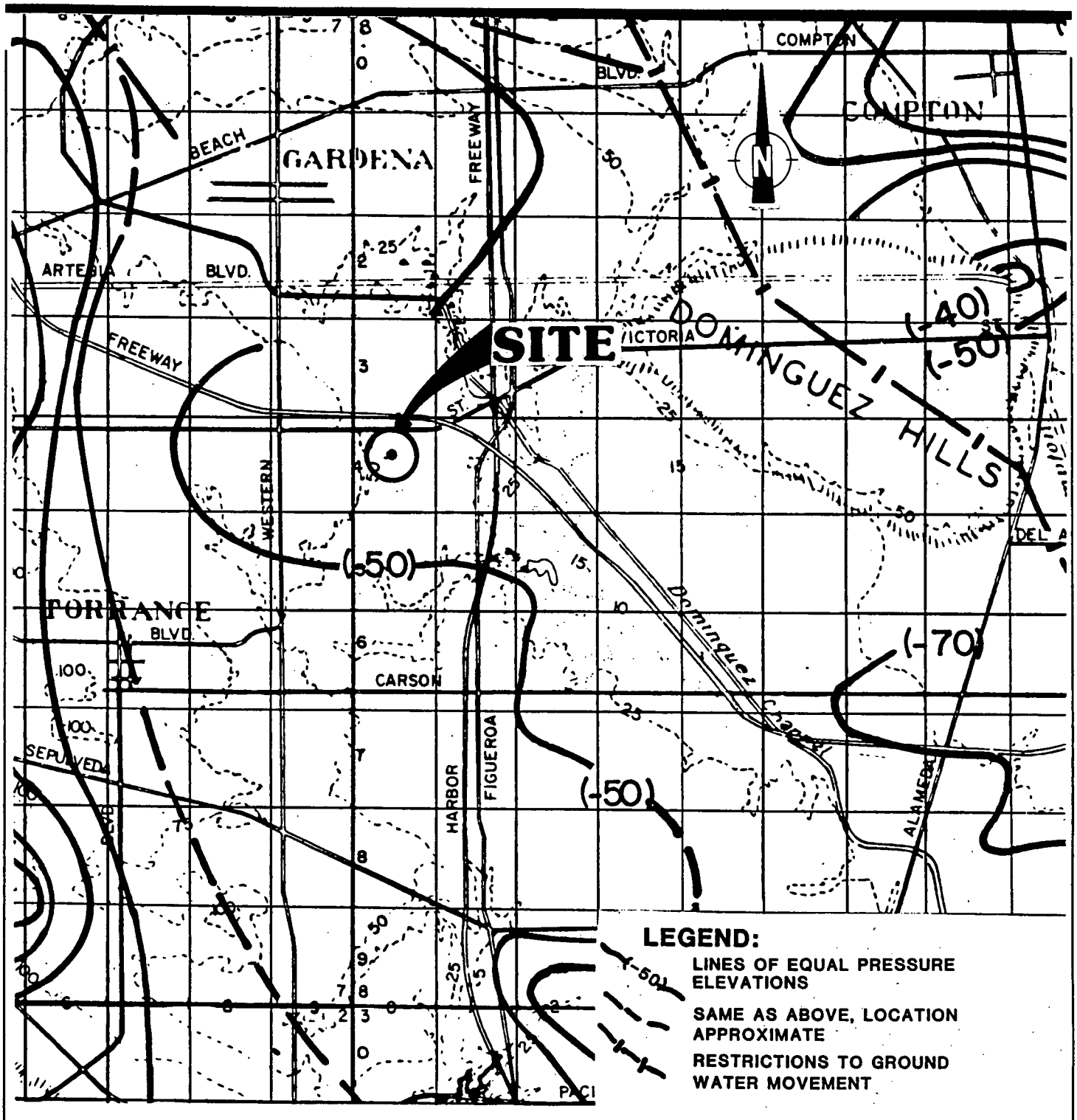
SITE PLAN - PRELIMINARY SITE ASSESSMENT

PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Converse Environmental West

Scale	as shown	Project No	89-41-636-01
Date	12-21-89		
Prepared By	AHW	Figure No.	2
Checked By	JSS		
Approved By	STG		

MODERN PASADENA BLUEPRINT / 99934



REFERENCE:

Los Angeles Flood Control District, Fall 1987, Coastal Plain, Ground Water Contours, Deep Aquifers

0 1 2
SCALE IN MILES

GROUND WATER CONTOUR MAP

PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Project No.
89-41-636-01

Figure No.
3

CONVERSE ENVIRONMENTAL WEST

REFERENCE:

Thomas Bros. Guide, 1989 edition,
Los Angeles County, pgs. 63,64 & 68,69

LEGEND:

1 ● APPROXIMATE LOCATION OF UNDERGROUND TANK LEAK (See Table 3)

LOCATIONS OF UNDERGROUND TANK LEAKS AND PROPOSED NPL SITES

PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Figure No.
4

TABLES

TABLE 1

PERMITTED UNDERGROUND STORAGE TANKS IN THE IMMEDIATE VICINITY OF PACIFIC BELL 19310 PACIFIC GATEWAY DRIVE LOS ANGELES, CALIFORNIA

Armor Plating Co.
19524 S. Normandie Ave.
1 Permit

Redman Equipment Co.
19800 S. Normandie Ave
3 Permits

Amelco Electric
19208 S. Vermont Ave.
1 Permit

Jay Steinbeck
1227 Knox St.
1 Permit

Data Components
19120 S. Vermont Ave.
1 Permit

Teledyne Sprague
19300 S. Vermont Ave.
3 Permits

Perma-bilt Steel Products
19106 S. Normandie Ave.
1 Permit

Guardian Industries
20008 S. Normandie Ave.
1 Permit

Teledyne - Crittendyne
711 Knox Ave.
1 Permit

Crestline Mills Carpet Co.
1200 W. Francis Street
2 Permits

Trico Industrial
19706 S. Normandie Ave
2 Permits

Texaco Refining & Marketing
19008 S. Normandie Ave
3 Permits

Jay Steinbeck
19500 S. Normandie Ave
1 Permit

H.H. Osterloh
19514 S. Normandie Ave.
1 Permit

Klingler Co.
19122 S. Vermont Ave.
1 Permit

Green's Ready Mix
19030 S. Normandie Ave
1 Permit

Quadtrad Corp.
19900 S. Normandie Ave.
1 Permit

Renault West Inc.
702 W. 190th Street
1 Permit

Amoco Chemicals Co.
12225 W. 196th Street
1 Permit

TABLE 2

REGISTERED LANDFILLS WITHIN A 1 MILE RADIUS OF PACIFIC BELL 19310 PACIFIC GATEWAY DRIVE LOS ANGELES,CALIFORNIA

STATUS	CLASS	PROJECT NO.	LOCATION
Inactive	II	388	So. Cal. Disposal, 186th Street at Vermont Avenue, Wilmington.
Inactive	II	391	East side of Vermont Avenue at 189th Street , Wilmington.
Inactive	II	396	Gardena Valley Dumps #1 & 2, Torrance Boulevard at Vermont Avenue, Carson.
Inactive	II	397	Gardena Valley Dump #4, Torrance Boulevard and Vermont Avenue, Carson.
Inactive	II	399	Southwest Conservation, 20331 S. Main Street, Carson.
Inactive	II	402	American Disposal Co., 182nd Street at Vermont Avenue, Wilmington.
Inactive	III	401	Southwest Steal No. 1 Dump, 19100 S. Figueroa Street, Carson.
Inactive	Unknown	403	Broadway - Main Co., 19101 S. Main Street, Carson.
Inactive	Unknown	410	LA Co. Sanitation District No. 1, Landfill Area L1A, south of Dominguez Channel on Moneta Avenue, Carson.
Inactive	Unknown	414	Cottler, 18802 S. Broadway, Carson.
Inactive	Unknown	910	Vermont Avenue and knox Street Dump, NE corner of Vermont Avenue and Knox Street, Los Angeles.

TABLE 2 (Continued)

REGISTERED LANDFILLS WITHIN A 1 MILE RADIUS OF PACIFIC BELL 19310 PACIFIC GATEWAY DRIVE LOS ANGELES,CALIFORNIA

STATUS	CLASS	PROJECT NO.	LOCATION
Inactive	Unknown	916	Katz Dump, SW corner of Broadway at Victoria Sreet, Carson.
Inactive	Unknown	918	Hamilton Street Dump, NW corner of the San Diego - Harbor Freeway intersection, south of 190th Street, Los Angeles.
Inactive	Unknown	919	Martin Hallerner, S. Figueroa Street at the Dominguez Channel (opposite 19005 S. Figueroa Street), Carson.
Inactive	Unknown	923	Brown Dump, 19001 S. Figueroa Street, Carson.
Active	III	128	Shell Chemical, 19500 S. Moneta Street, Carson.
Active	Unknown	301	South side of Dominguez Channel, Vicinity of 182nd Street and Harbor Freeway, Los Angeles.

TABLE 3
UNDERGROUND TANK LEAK LOCATIONS AND NPL SITES

TANK LEAK REFERENCE NUMBER	FACILITY NAME	ADDRESS	AFFECTED RESOURCE	STATUS	SUBSTANCE
1	Texaco Station	19008 Normandie Los Angeles	Undertermined	Investigation in Progress	Waste Oil
2	Douglas Aircraft	19503 Normandie Torrance	Ground Water	Investigation in Progress	Gasoline
3	Douglas Aircraft	19503 Normandie Torrance	Soil	Investigation in Progress	Gasoline
4	Douglas Aircraft	19503 Normandie Torrance	Soil	Investigation in Progress	Gasoline
5	Douglas Aircraft	19503 Normandie Torrance	Soil	Investigation in Progress	Gasoline
6	UnoCal Station	18605 Western Ave Torrance	Soil	Investigation in Progress	Gasoline
7	Toyota Motors	19001 Western Ave Torrance	Soil	No Action	Diesel
8	The Carson Estates Company	20225 Western Ave Torrance	Ground Water	Investigation in Progress	Misc motor vehicle fuel
9	Rollins Leasing Corporation	20425 Hamilton Carson	Ground Water	No Action	Inspecified Product
10	Carson City Towing Service	19135 Main Street Carson	Ground Water	Investigation in Progress	Unleaded Gasoline
11	Teledyne-Sprague Engineering	19300 Vermont Ave Los Angeles	N/A	Investigation in Progress	Unspecified Product
NPL SITE	Montrose Chemical Corporation	20201 Normandie Los Angeles	Ground Water and Soil	Investigation in Progress	DDT
NPL SITE	Del Amo Site	Del Amo Blvd (North Side) Between Normandie & Vermont	Ground Water and Soil	Investigation in Progress	VOC and PNA

References: 1) California Regional Water Quality Control Board, Los Angeles (Region 4), Underground Storage Tanks Leak List in Los Angeles County and Ventura County, 1989

2) Environmental Protection Agency, Fact Sheet, Montrose Chemical Corporation, Superfund Site, 1988

3) California Department of Health Services, Health and Welfare Agency, Toxic Substance Control Division, 1989, Expenditure Plan for the Substance Cleanup Bond Act of 1984, Revision No. 4

APPENDIX A
Boring Logs

SUMMARY
BORING NO. BH-1

DATE DRILLED: 12-13-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0		CL	very moist	firm	medium to dark brown	SILTY CLAY trace fine to medium-grained sand	Planter Area
1	X						
2							
3	X						
4						End of boring at 4' Boring terminated due to concrete obstruction No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-1

FORM NO. 05/77 Approved for publication _____ by _____

SUMMARY
BORING NO. BH-2

DATE DRILLED: 12-13-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0		SM	slightly moist	medium dense	light brown	FILL: SILTY SAND fine to coarse, with frequent fine gravel and concrete debris; fine to medium sand (SP) lens from 6" to 12"	Planter Area
1	X						
2	X						
3						End of boring at 3' Boring terminated due to concrete obstruction No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-2

FORM NO. D5 Approved for publication _____ by _____

SUMMARY
BORING NO. BH-3

DATE DRILLED: 12-13-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						3" Asphalt	
1	X	CL	moist	stiff	brown	SILTY CLAY trace fine to coarse-grained sand	
2					dark brown		
3	X						
						End of boring at 3' No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-3

FORM NO. 05/77 Approved for publication _____ by _____

SUMMARY
BORING NO. BH-4

DATE DRILLED: 12-13-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0		CL	slightly moist	firm to stiff	dark brown	SILTY CLAY trace fine to coarse-grained sand	Planter Area
1	X						
2							
3					light brown		
4	X						odor at 3.5 feet
						End of boring at 4' due to gravel No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-4

FORM NO. 85/77 Approved for publication _____ by _____

SUMMARY
BORING NO. BH-5

DATE DRILLED: 12-14-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						1½" Asphalt over 7" gravelly-sand base	
1	X	CL	slightly moist	firm	dark brown	SILTY CLAY trace silt and fine to coarse-grained sand	
2							
3	X						
						End of boring at 3' Boring terminated due to gravel No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-5

FORM NO. 05/77 Approved for publication _____ by _____

SUMMARY
BORING NO. BH-6

DATE DRILLED: 12-14-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						2" Asphalt over 6" gravelly-sand base	
1		CL	slightly moist	stiff	dark brown	SILTY CLAY trace fine to coarse-grained sand	
2							
3					light brown	increasing silt below 3'	
4	X						
5							
6							
7	X						
						End of boring at 7' No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-6

FORM NO. 05/77 Approved for publication ____ by ____

SUMMARY
BORING NO. BH-7

DATE DRILLED: 12-14-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						2" Asphalt over 6" gravelly-sand base	
1		CL	slightly moist	firm	dark brown	FILL: SILTY CLAY trace sand and gravel to $2\frac{1}{2}$" diameter; trace concrete debris at 2'	
2	X						Apparent ACM at 2'
3				stiff	light brown	increasing silt below $2\frac{1}{2}$'	
4	X						
						End of boring at 4' No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-7

FORM NO. D5/77 Approved for publication _____ by _____

SUMMARY
BORING NO. BH-8

DATE DRILLED: 12-14-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						2" Asphalt over 6" gravelly-sand base	
1	X	CL	slightly moist	stiff	dark brown	FILL: SILTY CLAY trace fine to coarse-grained sand and gravel to 2" diameter	Apparent ACM at 2'
2							
3	X						
						End of boring at 3' No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-8

FORM NO. 05/77 Approved for publication ____ by ____

SUMMARY
BORING NO. BH-9

DATE DRILLED: 12-14-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						2" Asphalt over 6" gravelly-sand base	
1	X	CL	slightly moist	firm	dark brown	SILTY CLAY trace fine to coarse-grained sand	
2							
3							
4	X						
						End of boring at 4' No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-9

APPENDIX B

Laboratory Test Results and Chain-of-Custody Records

BROWN AND CALDWELL LABORATORIES

801 WESTERN AVENUE, GLENDALE, CA 91201
(818) 247-5737

FAX: (818) 247-9797

ANALYTICAL REPORT

LOG NO: G89-12-273

Received: 14 DEC 89
Reported: 21 DEC 89

Mr. Steve Griswold
Converse Consultants
67 W. Bellevue
Pasadena, California 91105

Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-1	BH 1 @ 1.0' and 3.0'	14 DEC 89
12-273-2	BH 2 @ 1.0' and 2.5'	14 DEC 89
12-273-3	BH 3 @ 1.0' and 3.0'	14 DEC 89
12-273-4	BH 4 @ 1.0' and 4.0'	14 DEC 89
12-273-5	BH 5 @ 1.0' and 3.0'	14 DEC 89

PARAMETER	12-273-1	12-273-2	12-273-3	12-273-4	12-273-5
Pesticides/PCBs (EPA 8080)					
Date Analyzed	12/20/89	12/20/89	12/20/89	12/21/89	12/20/89
Date Extracted	12/18/89	12/18/89	12/18/89	12/18/89	12/18/89
Dilution Factor, Times 1	1	1	1	10	1
p,p'-DDD, mg/kg	0.006	0.025	0.012	<0.05	0.039
p,p'-DDE, mg/kg	<0.005	<0.005	0.012	<0.05	0.058
p,p'-DDT, mg/kg	0.012	0.063	0.065	<0.05	0.021
Aldrin, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Chlordane, mg/kg	<0.03	<0.03	<0.03	<0.3	<0.03
Dieldrin, mg/kg	<0.005	<0.005	0.008	<0.05	0.010
Endosulfan I, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Endosulfan II, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Endosulfan sulfate, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Endrin, mg/kg	<0.005	<0.005	<0.005	<0.05	0.009
Endrin aldehyde, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Heptachlor epoxide, mg/kg	<0.005	<0.016	<0.005	<0.05	<0.005
Heptachlor, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Methoxychlor, mg/kg	<0.02	<0.02	<0.02	<0.2	<0.02
Aroclor 1016, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1221, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1232, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1242, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1248, mg/kg	<0.1	<0.1	<0.1	<1	<0.1

BROWN AND CALDWELL LABORATORIES

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Pasadena, California 91105

Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-1	BH 1 @ 1.0' and 3.0'	14 DEC 89
12-273-2	BH 2 @ 1.0' and 2.5'	14 DEC 89
12-273-3	BH 3 @ 1.0' and 3.0'	14 DEC 89
12-273-4	BH 4 @ 1.0' and 4.0'	14 DEC 89
12-273-5	BH 5 @ 1.0' and 3.0'	14 DEC 89

PARAMETER	12-273-1	12-273-2	12-273-3	12-273-4	12-273-5
Aroclor 1254, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1260, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1262, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Toxaphene, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
BHC, alpha isomer, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
BHC, beta isomer, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
BHC, delta isomer, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
BHC, gamma isomer (Lindane), mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005

BROWN AND CALDWELL LABORATORIES

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12-273-1	BH 1 @ 1.0' and 3.0'	14 DEC 89
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12-273-3	BH 3 @ 1.0' and 3.0'	14 DEC 89
12-273-4	BH 4 @ 1.0' and 4.0'	14 DEC 89
12-273-5	BH 5 @ 1.0' and 3.0'	14 DEC 89

PARAMETER	12-273-1	12-273-2	12-273-3	12-273-4	12-273-5
Vol.Pri.Poll. (EPA-8240)					
Date Extracted	12/18/89	12/18/89	12/18/89	12/18/89	12/18/89
Date Analyzed	12/19/89	12/19/89	12/19/89	12/19/89	12/19/89
Dilution Factor, Times 1	1	1	1	1	1
1,1,1-Trichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,1,2-Trichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,1-Dichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,1-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dichloropropane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,3-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
cis-1,3-Dichloropropene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,4-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
2-Chloroethylvinylether, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
2-Hexanone, mg/kg	<3	<3	<3	<3	<3
Acetone, mg/kg	<3	<3	<3	<3	<3
Acrolein, mg/kg	<6	<6	<6	<6	<0.6
Acrylonitrile, mg/kg	<6	<6	<6	<6	<6
Bromodichloromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Bromomethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Benzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3

BROWN AND CALDWELL LABORATORIES

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ANALYTICAL REPORT

LOG NO: G89-12-273

Received: 14 DEC 89
Reported: 21 DEC 89

Mr. Steve Griswold
Converse Consultants
67 W. Bellevue
Pasadena, California 91105

Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-1	BH 1 @ 1.0' and 3.0'	14 DEC 89
12-273-2	BH 2 @ 1.0' and 2.5'	14 DEC 89
12-273-3	BH 3 @ 1.0' and 3.0'	14 DEC 89
12-273-4	BH 4 @ 1.0' and 4.0'	14 DEC 89
12-273-5	BH 5 @ 1.0' and 3.0'	14 DEC 89

PARAMETER	12-273-1	12-273-2	12-273-3	12-273-4	12-273-5
Chlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Carbon Tetrachloride, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Chloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Bromoform, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Chloroform, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Chloromethane, mg/kg	<0.6	<0.6	<0.6	<0.6	<0.6
Carbon Disulfide, mg/kg	<0.6	<0.6	<0.6	<0.6	<0.6
Dibromochloromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Ethylbenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Freon 113, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Methyl isobutyl ketone, mg/kg	<2	<2	<2	<2	<2
Methyl ethyl ketone, mg/kg	<3	<3	<3	<3	<3
Methylene chloride, mg/kg	<0.3	0.4	<0.3	<0.3	<0.3
Tetrachloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Styrene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Trichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Trichlorofluoromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Toluene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Vinyl acetate, mg/kg	<2	<2	<2	<2	<2
Vinyl chloride, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Total Xylene Isomers, mg/kg	<2	<2	<2	<2	<2
trans-1,2-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
trans-1,3-Dichloropropene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-1	BH 1 @ 1.0' and 3.0'	14 DEC 89
12-273-2	BH 2 @ 1.0' and 2.5'	14 DEC 89
12-273-3	BH 3 @ 1.0' and 3.0'	14 DEC 89
12-273-4	BH 4 @ 1.0' and 4.0'	14 DEC 89
12-273-5	BH 5 @ 1.0' and 3.0'	14 DEC 89

PARAMETER	12-273-1	12-273-2	12-273-3	12-273-4	12-273-5
cis-1,2-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3

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Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-6	BH 6 @ 4.0' and 7.0'	14 DEC 89
12-273-7	BH 7 @ 2.0' and 4.0'	14 DEC 89
12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
Sample Held, Not Analyzed	---	---	---	---	HOLD

BROWN AND CALDWELL LABORATORIES

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Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-6	BH 6 @ 4.0' and 7.0'	14 DEC 89
12-273-7	BH 7 @ 2.0' and 4.0'	14 DEC 89
12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
Pesticides/PCBs (EPA 8080)					
Date Analyzed	12/20/89	12/20/89	12/20/89	12/20/89	---
Date Extracted	12/18/89	12/18/89	12/18/89	12/18/89	---
Dilution Factor, Times 1	1	1	1	1	---
p,p'-DDD, mg/kg	<0.005	0.033	<0.005	<0.005	---
p,p'-DDE, mg/kg	<0.005	0.051	<0.005	0.005	---
p,p'-DDT, mg/kg	<0.005	0.013	<0.005	0.017	---
Aldrin, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Chlordane, mg/kg	<0.03	<0.03	<0.03	<0.03	---
Dieldrin, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Endosulfan I, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Endosulfan II, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Endosulfan sulfate, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Endrin, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Endrin aldehyde, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Heptachlor epoxide, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Heptachlor, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Methoxychlor, mg/kg	<0.02	<0.02	<0.02	<0.02	---
Aroclor 1016, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1221, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1232, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1242, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1248, mg/kg	<0.1	<0.1	<0.1	<0.1	---

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Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-6	BH 6 @ 4.0' and 7.0'	14 DEC 89
12-273-7	BH 7 @ 2.0' and 4.0'	14 DEC 89
12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
Aroclor 1254, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1260, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1262, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Toxaphene, mg/kg	<0.1	<0.1	<0.1	<0.1	---
BHC, alpha isomer, mg/kg	<0.005	<0.005	<0.005	<0.005	---
BHC, beta isomer, mg/kg	<0.005	<0.005	<0.005	<0.005	---
BHC, delta isomer, mg/kg	<0.005	<0.005	<0.005	<0.005	---
BHC, gamma isomer (Lindane), mg/kg	<0.005	<0.005	<0.005	<0.005	---

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12-273-7	BH 7 @ 2.0' and 4.0'	14 DEC 89
12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
Vol.Pri.Poll. (EPA-8240)					
Date Extracted	12/18/89	12/18/89	12/18/89	12/18/89	---
Date Analyzed	12/19/89	12/19/89	12/19/89	12/19/89	---
Dilution Factor, Times 1	1	1	1	1	---
1,1,1-Trichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,1,2,2-Tetrachloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,1,2-Trichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,1-Dichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,1-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,2-Dichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,2-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,2-Dichloropropane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,3-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
cis-1,3-Dichloropropene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,4-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
2-Chloroethylvinylether, mg/kg	<0.3	<0.3	<0.3	<0.3	---
2-Hexanone, mg/kg	<3	<3	<3	<3	---
Acetone, mg/kg	<3	<3	<3	<3	---
Acrolein, mg/kg	<6	<6	<6	<6	---
Acrylonitrile, mg/kg	<6	<6	<6	<6	---
Bromodichloromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Bromomethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Benzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-6	BH 6 @ 4.0' and 7.0'	14 DEC 89
12-273-7	BH 7 @ 2.0' and 4.0'	14 DEC 89
12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
Chlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Carbon Tetrachloride, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Chloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Bromoform, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Chloroform, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Chloromethane, mg/kg	<0.6	<0.6	<0.6	<0.6	---
Carbon Disulfide, mg/kg	<0.6	<0.6	<0.6	<0.6	---
Dibromochloromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Ethylbenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Freon 113, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Methyl isobutyl ketone, mg/kg	<2	<2	<2	<2	---
Methyl ethyl ketone, mg/kg	<3	<3	<3	<3	---
Methylene chloride, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Tetrachloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Styrene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Trichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Trichlorofluoromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Toluene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Vinyl acetate, mg/kg	<2	<2	<2	<3	---
Vinyl chloride, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Total Xylene Isomers, mg/kg	<2	<2	<2	<2	---
trans-1,2-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
trans-1,3-Dichloropropene, mg/kg	<0.3	<0.3	<0.3	<0.3	---

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LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-6	BH 6 @ 4.0' and 7.0'	14 DEC 89
12-273-7	BH 7 @ 2.0' and 4.0'	14 DEC 89
12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
cis-1,2-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	---

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LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-11	BH 1 @ 3.0'	14 DEC 89
12-273-12	BH 2 @ 1.0'	14 DEC 89
12-273-13	BH 2 @ 2.5'	14 DEC 89
12-273-14	BH 3 @ 1.0'	14 DEC 89
12-273-15	BH 3 @ 3.0'	14 DEC 89

PARAMETER	12-273-11	12-273-12	12-273-13	12-273-14	12-273-15
Sample Held, Not Analyzed	HOLD	HOLD	HOLD	HOLD	HOLD

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-16	BH 4 @ 1.0'	14 DEC 89
12-273-17	BH 4 @ 4.0'	14 DEC 89
12-273-18	BH 5 @ 1.0'	14 DEC 89
12-273-19	BH 5 @ 3.0'	14 DEC 89
12-273-20	BH 6 @ 4.0'	14 DEC 89

PARAMETER	12-273-16	12-273-17	12-273-18	12-273-19	12-273-20
Sample Held, Not Analyzed	HOLD	HOLD	HOLD	HOLD	HOLD

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-21	BH 6 @ 7.0'	14 DEC 89
12-273-22	BH 7 @ 2.0'	14 DEC 89
12-273-23	BH 7 @ 4.0'	14 DEC 89
12-273-24	BH 9 @ 1.0'	14 DEC 89
12-273-25	BH 9 @ 4.0'	14 DEC 89

PARAMETER	12-273-21	12-273-22	12-273-23	12-273-24	12-273-25
Sample Held, Not Analyzed	HOLD	HOLD	HOLD	HOLD	HOLD

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-26	BH 8 @ 1.0'	14 DEC 89
12-273-27	BH 8 @ 3.0'	14 DEC 89

PARAMETER	12-273-26	12-273-27
Sample Held, Not Analyzed	HOLD	HOLD

BROWN AND CALDWELL LABORATORIES

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REPORT OF ANALYTICAL RESULTS

Sample BH4 @ 1.0' and 4.0' was diluted tenfold during the pesticide analysis due to high levels of sulfur present in the sample.
12/21/89 -- L. Brack

Jeffrey A. Erion, Laboratory Manager

CHAIN OF CUSTODY RECORD

BC Log Number [redacted]

Client name: CONVERSE ENVIRONMENTAL WEST

Job number or Purchase Order number: 89-41-636-01

Project name: PACIFIC BELL / PACIFIC GATEWAY

Project manager: S.T.G.

Sampler(s): B.H.M., ~~[illegible]~~, AND R.P.S.

Analyses required: EPA 8080, EPA 8240, Hazardous sample Special handling required

Sample number	Date sampled	Time sampled	Matrix Type	Sample description	Number of containers	EPA 8080	EPA 8240							Remarks
S-1	12-13-89	9:15		B.H. 1 (1.0') COMPOSITE COMPOSITE COMPOSITE COMPOSITE	1	X	X							1 WEEK RUSH
S-2	"	9:25		B.H. 1 (3.0')	1	X	X							" "
S-1	"	11:15		B.H. 2 (1.0')	1	X	X							" "
S-2	"	11:30		B.H. 2 (2.5')	1	X	X							" "
S-1	"	11:45		B.H. 3 (1.0')	1	X	X							" "
S-2	"	12:15		B.H. 3 (3.0')	1	X	X							" "
S-1	"	1:00		B.H. 4 (1.0')	1	X	X							" "
S-2	"	1:25		B.H. 4 (4.0')	1	X	X							" "
				* the jar for BH2 at 1.0' showed 2.0'										

	Signature	Company	Date	Time
Relinquished by	[signature]	CONVERSE ENVIRONMENTAL WEST	12-14-89	4:20 PM
Received by	Tracy Gaynor	BC Analytical	12-14-89	4:20 PM
Relinquished by				
Received by				
Relinquished by				
Received by				

BC ANALYTICAL

☐ 1255 Powell Street, Emeryville, CA 94608 (415) 428-2300

☐ 801 Western Avenue, Glendale, CA 91201 (818) 247-5737

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Hazardous samples will be returned to client or disposed of at client expense.

CHAIN OF CUSTODY RECORD

BC Log Number GAT-12-273

Client name: CONVERSE ENVIRONMENTAL WEST

Job number or Purchase Order number: 89-41-636-01

Project name: PACIFIC BELL / PACIFIC GATEWAY

Project manager: S.T.G.

Sampler(s): J.S.S., R.P.S.

Analyses required

Sample number	Date sampled	Time sampled	Matrix Type	Sample description	Number of containers	EPA 8080	EPA 8240						Hazardous sample Special handling required	Remarks
S-1	12-14-89	8:10		B.H. 5 (1.0') COMPOSITE	1	X	X							1 WEEK RUSH
S-2	"	8:30		B.H. 5 (3.0')	1	X	X							" "
S-1	"	10:10		B.H. 6 (4.0') COMPOSITE	1	X	X							" "
S-2	"	10:30		B.H. 6 (7.0')	1	X	X							" "
S-1	"	12:00		B.H. 7 (2.0') COMPOSITE	1	X	X							" "
S-2	"	12:20		B.H. 7 (4.0')	1	X	X							" "
S-1	"	1:45		B.H. 9 (1.0') COMPOSITE	1	X	X							" "
S-2	"	2:00		B.H. 9 (4.0')	1	X	X							" "
S-1	"	2:30		B.H. 8 (1.0') COMPOSITE	1	X	X							" "
S-2	"	2:45		B.H. 8 (3.0')	1	X	X							" "

	Signature	Company	Date	Time
Relinquished by	Rick Swartz	CONVERSE ENVIRONMENTAL WEST	12-14-89	4:20 P.M.
Received by	Tracy Gaynor	BC Analytical	12-14-89	4:20 PM
Relinquished by				
Received by				
Relinquished by				
Received by				

BC ANALYTICAL

☐ 1255 Powell Street, Emeryville, CA 94608 (415) 428-2300

☐ 801 Western Avenue, Glendale, CA 91201 (818) 247-5737

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Hazardous samples will be returned to client or disposed of at client expense.

BULK SAMPLE ANALYSIS REPORT

Date: December 18, 1989
BLI Ref. No: 1289-106

Name: Mr. Josh Sacker
Address: Converse Environmental West
67 W. Bellevue Drive
Pasadena, CA 91105

Client Project: Pac Bell/Pacific Gateway
Date Received: December 15, 1989
Date Analyzed: December 15, 1989
Number of Samples: 2

NIST, NVLAP Lab Code No: 1344
California Department of Health Services
Lab Certification No: 243
Analytical Method: EPA 600/M4-82-020

Microscopist: Art Casas

BSE Labs

BSE Labs Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(818) 355-4711
FAX: (818) 355-4497

	Client Sample No.	BLI Sample No.	Sample Description	% Chr.	% Amos.	Asbestos % Other	% Total	Non Asbestos Fibrous	Non Fibrous	QC.
1	BH-7A2	1289-106-1	HAND AUGER AT BH-7, DEPTH OF 16" GRAY/BROWN, SOLID	30	N/D	10	40	---	Y	
2	BH-9A2	1289-106-2	HAND ANGER AT BH-9, DEPTH OF 24" GRAY/BROWN, SOLID	40	N/D	10	50	---	Y	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

Signatures: Lab Director _____ Microscopist _____

BSE Labs

BSE Labs Inc.
82 West Sierra Madre Boulevard
Sierra Madre, California 91024
(818) 355-4711
FAX: (818) 355-4497

12/18/89

INVOICE

INVOICE NO. L/2573

Mr. Josh Sacker
CONVERSE ENVIRONMENTAL WEST
67 W. Bellevue Drive
Pasadena, CA 91105

Client Project: Pac Bell/Pacific Gateway
Reference: 1289-106
Service: Services by BSE LABS, INC..
Dates: 12/18/89

Task	Description	Quantity	Multiplier	Fee
1289-106	Bulk Sample Analysis 24 Hour Turnaround	2 EA	23.00	46.00

TOTAL 46.00

****

FOR THIS INVOICE PLEASE PAY THIS AMOUNT **46.00**

BSE Labs Inc.
82 W. Sierra Madre Blvd.
Sierra Madre, CA 91024
(818) 355-4711
FAX: (818) 355-4497

LABORATORY USE ONLY:
BLI Ref. No.: 1289-106
Client No.: L2310890006-1

REQUEST FOR LABORATORY ANALYSIS

FOR BULK SAMPLES BY PLM

COMPANY: CONVERSE ENVIRONMENTAL WEST
NAME: JOSH SACKER
ADDRESS: 67 W. BELLEVUE DRIVE
CITY: PASADENA STATE: CA ZIP: 91105
PHONE: 818 796 8200 FAX: 818 795 3394
COLLECTED BY: JSS
PROJECT NAME: Pac Bell ~~Pacific Gateway~~ I.D. #:
SPECIAL INSTRUCTIONS:
24 hour Rush
NO. OF SAMPLES: 2

MUST BE FILLED OUT BY CLIENT:
(1) Turn-Around Time Requested:
( ) Rush ( ) Same Day
(X) 24 Hour ( ) 48 Hour
( ) Normal (3-5 Days)
( ) Weekend
(2) Verbal Requested:
( ) No ( ) Yes
(3) FAX Requested:
( ) No ( ) Yes
CONTACT:

BULK SAMPLE DATA LOG:

	SAMPLE NO.	BUILDING FLOOR	SAMPLE LOCATION	SAMPLE DESCRIPTION	QUANTITY/ CONDITION REMARKS
1	BH-7 A2 Asbestos(?)	IN SOIL	HAND AUGER AT BH-7 Depth of 16"	BH-7 A2 Asbestos(?)	TESTING FOR ASBESTOS
2	BH-9 A2 Asbestos(?)	IN SOIL	HAND AUGER AT BH-9 DEPTH OF 24"	BH-9 A2 Asbestos(?)	TESTING FOR ASBESTOS
3					
4					
5					
6					
7					
8					
9					
10					

CHAIN OF CUSTODY:
Samples Submitted By: [signature] Date: 12-15-89 Time: 1 45pm Shipped By:
Samples Received By: [signature] Date: 12-15-89 Time: 145pm

WHITE COPY - Lab GOLD COPY - Lab PINK COPY - Client

CONVERSE ENVIROLAB

67 West Bellevue Drive
Suite D
Pasadena, California 91105-2501

Telephone: 818/796-8200

December 18, 1989

PROJECT/CLIENT:	PAC BELL/ PACIFIC GATEWAY	PROJECT NUMBER:	89-41-636-01
PROJECT MGR.:	S. GRISWOLD	ENVIROLAB NUMBER:	89-71-12-138

Subject: Analysis of Samples

On December 15, 1989, two (2) bulk samples were received by the laboratory for identification of asbestos by "The Interim Method for the Determination of Asbestos in Bulk Insulation Samples." The results obtained from this analysis are listed in the attached table.

George Colovos, Ph.D.
Laboratory Director

CONVERSE ENVIROLAB

ANALYSIS OF SAMPLES BY POLARIZED LIGHT MICROSCOPY

Methodology: "The Interim Method for Determination of Asbestos in Bulk Insulation Samples" (EPA-600/M4-82-020; December, 1982).

Project/Client: Pac Bell/Pacific Gateway
Project Manager: Steve Griswold
Project Number: 89-41-636-01
Envirolab Number: 89-71-12-138

Sample ID Number	Physical Description of Bulk Sample	Asbestos Materials	Percent Composition	Non-Asbestos Materials	Percent Composition	% Total
BH9 A1	Hard grey, brittle mass with white and blue-black fibrous inclusions.	Chrysotile Crocidolite	40 40	Binder/filler	20	100
BH7 A1	Hard grey, brittle mass with white and blue-black fibrous inclusions.	Chrysotile Crocidolite	40 40	Binder/filler	20	100

Analyzed:

Michael J. Crisostomo
Analyst

Approved:

George Colovos, Ph.D.
Laboratory Director

CONVERSE ENVIROLAB
West Bellevue Drive, Pasadena, CA 91105
Telephone (818) 796-8200, FAX (818) 795-3394

CHAIN OF CUSTODY RECORD

Envirolab Log Number 89-71-12-138

Project Name: PAC BELL / PACIFIC GATEWAY
Project Number: 994 636 01
Project Location: 19310 Pacific Gateway Dr
Phone Number:
Project Manager: STG
Sample Collector: JSS

Analyses required: Identification of Asbestos

Lab sample number	Date sampled	Time sampled	Matrix	Sample identification	Comp. Instr.	PLM								Remarks
	12-14-89		bulk	BH-9 A1	D	✓								
	12-14-89		bulk	BH-7 A1	D	✓								

	Signature	Print Name	Company	Date	Time
Relinquished by	Josh Sacker	JOSH SACKER	CONVERSE ENVIRONMENTAL WEST	12-15-89	1100hrs
Received by	Michael J. Crisostomo	MICHAEL J. CRISOSTOMO	CONVERSE ENVIROLAB	12-15-89	1100hrs
Relinquished by					
Received by					
Relinquished by					
Received by					

APPENDIX C

Copies of Los Angeles Department of Building and Safety Records

MS-4A

1

APPLICATION FOR INSPECTION OF NEW BUILDING AND FOR CERTIFICATE OF OCCUPANCY

B&S 8-1 — R6.77

CITY OF LOS ANGELES — DEPT. OF BUILDING AND SAFETY

INSTRUCTIONS: 1. Applicant to Complete Numbered Items Only. 2. Plot Plan Required on Back of Original.

1. LEGAL DESCR.	LOT FRAC 22, FRAC 23, 26, 27 & ROSEMEAD VACATED	TRACT 4671	DIST. MAP 7940; CENSUS TRACT 2921.00
2. PURPOSE OF BUILDING	(13) Office Building		ZONE M3-1
3. JOB ADDRESS	19310 Pacific Gateway Drive		FIRE DIST. II
4. BETWEEN CROSS STREETS	190th St. AND Knox		LOT (TYPE)
5. OWNER'S NAME	Cadillac Fairview	PHONE 637-0777	LOT SIZE
6. OWNER'S ADDRESS	2200 W. Artesia Blvd. CITY Compton	ZIP 90220	
7. ENGINEER	Erkel/Green Field BUS. LIC. NO.	ACTIVE STATE LIC. NO. SE 883 PHONE 278-8133	ALLEY
8. ARCHITECT OR DESIGNER	Group Arcon BUS. LIC. NO.	ACTIVE STATE LIC. NO. C-5847 PHONE 689-4411	BLDG. LINE
9. CONTRACTOR	Oltmans Const. BUS. LIC. NO.	ACTIVE STATE LIC. NO. 86393 PHONE 576-8474	AFFIDAVITS BF 784848 OB 14332
10. BRANCH LENDER	ADDRESS	CITY	
11. SIZE OF NEW BLDG.	WIDTH 135' LENGTH 150'7"	STORIES 2 HEIGHT 26' NO. OF EXISTING BUILDINGS ON LOT AND USE None	
12. MATERIAL OF CONSTRUCTION	EXT. WALLS Conc.	ROOF Mtl.Deck FLOOR Conc.	SEISMIC STUDY ZONE

1

13. JOB ADDRESS	19310 Pacific Gateway Drive	DIST. OFFICE San Pedro
14. VALUATION TO INCLUDE ALL FIXED EQUIPMENT REQUIRED TO OPERATE AND USE PROPOSED BUILDING	$1,500,000.00	CRIT. SOIL
	1 of 2 Total Val. $1,791,000.00	GRADING
		HIGHWAY DED. No

PURPOSE OF BUILDING: Office Building			STORIES 2	HEIGHT 26
TYPE V	GROUP OCC. G-1	BLDG. AREA 17,000	PLANS CHECKED	CONS.
DWELL. UNITS	MAX. OCC. (SEE OVER)	TOTAL	PLANS APPROVED	ZONED BY Breskovich
GUEST ROOMS	PARKING REQ'D 68	PARKING PROVIDED STD. SEE COMPOSITE	APPLICATION APPROVED	FILE WITH
SPRINKLERS REQ'D SPECIFIED NO	CONT. INSP. DECK WELDS, ALL WELDS LIC STL FAB		INSPECTION ACTIVITY COMB GEN MAX. CONS	INSPECTOR M

P.C.	B.P.	T.I.	P.M.	I.F.	G.P.I.	C/O	O.S.
3907.37	3956.70	3826	79				

P.C. NO.	WORKER'S COMPENSATION INSURANCE CERTIFICATE ON FILE / EXEMPT		TYPIST
B-1798		Energy: 10% H/C	cak

PERMIT EXPIRES TWO YEARS AFTER FEE IS PAID OR 180 DAYS AFTER FEE IS PAID IF CONSTRUCTION IS NOT COMMENCED.

CASHIER'S USE ONLY

NOV-1-78 03325 P — CK 3,907.37

FEB-15-79 05871 P — CK 4,035.83

LIMIT OF PERMIT

"This permit is an application for inspection, the issuance of which is not an approval or an authorization of the work specified herein. This permit does not authorize or permit, nor shall it be construed as authorizing or permitting the violation or failure to comply with any applicable law. Neither the City of Los Angeles, nor any board, department, officer or employee thereof make any warranty or shall be responsible for the performance or results of any work described herein, or the condition of the property or soil upon which such work is performed." (See Sec. 91.0202 L.A.M.C.)

Signed [signature] (Owner or Agent having Property Owner's Consent) ALSO, sign statement on reverse side, if applicable.

Signature/Date

Bureau of Engineering	ADDRESS APPROVED		M. Grossman 1/26/79
	DRIVEWAY		M. Grossman 1/26/79
	HIGHWAY DEDICATION	REQUIRED	
		COMPLETED	
	FLOOD CLEARANCE		
	SEWERS SFC DUE 7,050.80 H G	SEWERS AVAILABLE	M. Grossman 1/26/79
		NOT AVAILABLE	
		SFC PAID	
	SFC NOT APPLICABLE	SFC DUE	M. Grossman 1/26/79
Conservation	APPROVED FOR ISSUE ☐ NO FILE ☐ FILE CLOSED ☐		
Fire Hydrants	APPROVED (TITLE 19) (L.A.M.C.-5700) 12/8/78		[signature] 1-26-79
Housing	HOUSING AUTHORITY APPROVAL		
Planning	APPROVED UNDER CASE # [illegible]		[illegible]

E. 90732 PHONE (213) 832-1155

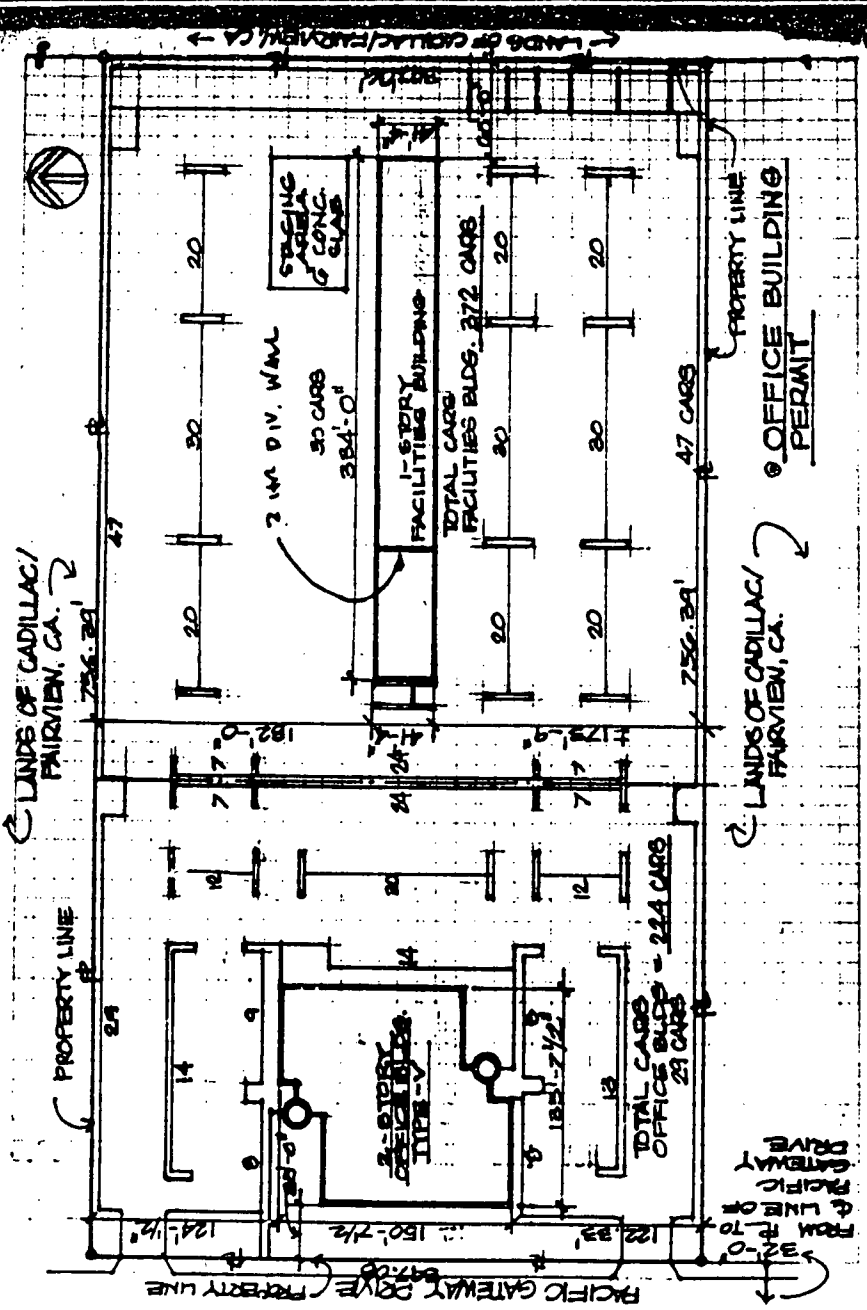
PEMO JAIS PORTION

LANDS OF CADILLAC

[redacted]4A 1
[redacted]&S 8-1 — R8.77
F BUILDING AND SAFETY
on Back of Original.

[redacted]T. MAP
[redacted]40
[redacted]NSUS TRACT
2921.00
ZONE
M2-1
[redacted]E DIST.
[redacted]
LOT (TYPE)
[redacted]
LOT SIZE
[redacted]
ALLEY
[redacted]G. LINE
[redacted]IDAVIIS
BF 784848
[redacted] 14332
[redacted]SEISMIC STUDY ZONE
DIST. OFFICE
San Pedro
[redacted]T. SOIL
[redacted]
GRADING
[redacted]
[redacted]ED.
[redacted]
CONS.
[redacted]ED BY
[redacted]eskovich
[redacted]E WITH
INSPECTOR
[redacted] O.S.
TYPIST
cak
[redacted]OT COMMENCED.
[redacted]3,907.37
[redacted] 4035.83

[redacted]or[redacted] authorization
[redacted]ed as author-
[redacted] City of Los
[redacted]e responsible
[redacted]perty or soil upon



OCC. LOAD	DINING ROOM @ 17	6 2
	TRAINING ROOM = 50	G-1

CALCULATION SHEETS VARIANCE FOR R# 75-4848

EFFICE AREA = 68 STP = 50C
GARAGE AREA = 27 COMP = 7C
95 58C

1 CITY OF LOS ANGELES AP

INSTRUCTIONS: 1. Applica

1. LEGAL DESCR. LOT 26, 27 FRAC 22 & R FRAC 23
2. PURPOSE OF BUILDING '08 Repair
3. JOB ADDRESS 19310 ~~[illegible]~~
4. BETWEEN CROSS STREETS 190th St.
5. OWNER'S NAME Cadillac Fai
6. OWNER'S ADDRESS 2200 W. Arte
7. ENGINEER Erkel/Green
8. ARCHITECT OR DESIGNER Group Acron
9. CONTRACTOR Oltmans Cons
10. BRANCH LENDER
11. SIZE OF NEW BLDG. WIDTH 41' LENGTH 334 EXT. W
12. MATERIAL OF CONSTRUCTION
13. JOB ADDRESS 19310
14. VALUATION TO INCLU EQUIPMENT REQUIRE AND USE PROPOSED

1

2-of 2

PURPOSE OF BUILDING Repair Garage

TYPE	V	GROUP OCC.	
DWELL UNITS	NC	MAX. OCC.	TRF
GUEST ROOMS	—	PARKING REQ'D	2
SPRINKLERS REQ'D SPECIFIED	NO	CONT. INSP.	U
P.C.	3907.37	S.P.C.	
P.C. NO.	B-1798	WORKER'S COM ON FILE	

PERMIT EXPIRES TWO YEARS AFT

CASHIER'S USE ONLY

Nov. 1,

"This permit is an applicati of the work specified herein. izing or permitting the violat Angeles, nor any board, depa for the performance or results which such work is performed."

Signed (Owner or Agent h ALSO, sign statemen

Bureau of Engineering

SEWERS SFC

	SFC NOT APPL
Conservation	APPROVED FOR
Fire	APPROVED (T)
Housing	HOUSING AUTH
Planning	APPROVED UNC

4-26-79

G3 CITY OF LOS ANGELES

APPLICATION TO ADD OR ALTER ACTIVE GRADING PERMIT

DEPT. OF BUILDING AND SAFETY

INSTRUCTIONS: 1. Applicant to Complete Numbered Items only. 2. Plot Plan Requested on Back of Original.

1. LEGAL DESCR.	LOT 26,27 Pr. 28,22,23,21	BLK.	TRACT 4671	CENSUS TRACT 2921.00
2. JOB ADDRESS 19310 Pacific Gateway Dr.	Rosemead St. Vacated			DIST. MAP 7940
3. BETWEEN CROSS STREETS Knox St. AND 190th St.				ZONE M03-1
4. PURPOSE OF GRADING CHANGE NO FEE Correct Permit Number of Previous Permit				FIRE DIST. II
5. OWNER Cadillac Fairview/Calif. Inc.		PHONE 637-0777		LOT (TYPE)
6. OWNER'S ADDRESS 2200 W. Artesia Blvd.		P.O. BOX Compoton	ZONE 90220	LOT SIZE See Map
7. PLANS BY Paul Ash	CIVIL ENG.	STATE LICENSE 21499	PHONE 751-7373	
8. FOUNDATION ENGINEER Converse Davis Dixon		STATE LICENSE	PHONE 772-2151	ALLEY
9. GEOLOGIST			PHONE	BLDG. LINE
10. CONTRACTOR Millie - Severson		STATE LICENSE	PHONE	AFFIDAVITS
11. CONTRACTOR'S ADDRESS		STATE LICENSE	PHONE	
12. LENDER		BRANCH OFFICE	PHONE	

G3

13. JOB ADDRESS 19310 Pacific Gateway Dr.		DISTRICT OFFICE San Pedro
14. NUMBER CUBIC YARDS ADDED CUT FILL	YARDAGE APPROVED	GRADING
15. COMPACTED FILLS YES..... NO..... RETAINING WALL REQUIRED YES..... NO.....	APPLICATION CHECKED [signature]	CRIT. SOIL
16. NEW WORK: (Describe) NO FEE - Dept. Error To show Correct permit number	PLANS CHECKED	HIGHWAY DED.
	PLANS APPROVED	FLOOD
	APPLICATION APPROVED [signature]	CONS.
ADDITIONAL BOND REQUIRED ☐ AMOUNT ☐ CASH ☐ SURETY POSTED	EXISTING BOND PERMIT NO. —	ZONED BY Nixt
		FILE WITH 59962
P.C. No. — APPROVED SOIL TESTING AGENCY	BOARD FILE #	INSPECTOR [signature]

P.C.	S.P.C.	G.P.I.	G.P.	I.F.	TYPIST
—			—		

PLAN CHECK EXPIRES SIX MONTHS AFTER FEE IS PAID. PERMIT EXPIRES ONE YEAR AFTER FEE IS PAID OR SIX MONTHS AFTER FEE IS PAID IF CONSTRUCTION IS NOT COMMENCED.

CASHIER'S USE ONLY

APR-27-79 07:48 R — 31F 0.00

GP

B45 8-1 3-1-71

STATEMENT OF RESPONSIBILITY

I certify that in doing the work authorized hereby I will not employ any person in violation of the Labor Code of the State of California relating to workmen's compensation insurance.

"This permit is an application for inspection, the issuance of which is not an approval or an authorization of the work specified herein. This permit does not authorize or permit, nor shall it be construed as authorizing or permitting the violation or failure to comply with any applicable law. Neither the City of Los Angeles, nor any board, department, officer or employee thereof make any warranty or shall be responsible for the performance or results of any work described herein, or the condition of the property or soil upon which such work is performed." (see Sec. 91.0202 L.A.M.C.)

Signed Armando Martinez [signature] (Owner or Agent)

I certify that all of the land included in the Tentative Tract Map is under my ownership or land on which offsite rights have been granted.

Signed (Owner or Agent)

		Name	Date
Bureau of Engineering	ADDRESS APPROVED		
	DRIVEWAY APPROVED		
	FLOOD CLEARANCE APPROVED		
	DRAINAGE TO WATERCOURSE APPROVED		
	GRADING IN WATERCOURSE APPROVED		
	GRADING ON PUBLIC PROPERTY APPROVED		
Plumbing	SPRINKLER SYSTEM APPROVED		
Planning	APPROVED UNDER CASE #		

Address of Building 19310 Pacific Gateway

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

Note: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained or made known to the undersigned, the vacant land, building, or portion of a building described below and located at the above address complies with the applicable construction requirements (Chapter 9) and/or the applicable zoning requirements (Chapter 1) of the Los Angeles Municipal Code for the use, or occupancy group in which it is classified.

Issued 2/28/80 Permit No. and Year SP60612/79

Two story, Type V, 135'x150'2", office building and employee dining room (97 occupancy). 68 parking spaces required. 582 provided. Circular exit stairs variance per B.F. #784848, G-1/B-2 occupancy.

0 1 1 0 0 5 0 0 2 5 1

Owner Cadillac Fairview

Owner's Address 2200 W. Artesia Blvd.
Compton, California 90220

Form B-95b

BY R. V. KELLAM dp

Address of Building 19310 Pacific Gateway

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

Note: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained or made known to the undersigned, the vacant land, building or portion of a building described below and located at the above address complies with the applicable construction requirements (Chapter 9) and/or the applicable zoning requirements (Chapter 1) of the Los Angeles Municipal Code for the use, or occupancy group in which it is classified.

ssued 3/26/80 Permit No. and Year SP60613/79

One story, Type V, 41'x334', repair garage, storage and training room (49 occupancy).

Twenty-seven required parking spaces provided.

F-1/G-1 occupancy. 0 1 1 0 0 5 0 0 2 5 5

wner Cadillac Fairview

wner's ddress 2200 West Artesia Boulevard
Compton, California 90220

m B-95b

BY

3 FOR INSPECTION

REPAIR-DEMOLISH AND FOR CERTIFICATE OF OCCUPANCY

INSTRUCTIONS: 1. Applicant to Complete Numbered Items Only.

1. LEGAL DESCR: LOT 27	BLOCK --	TRACT 4671	COUNCIL DISTRICT NO 15	DIST MAP 57B197 / CENSUS TRACT 2921
2. PRESENT USE OF BUILDING 13 TRAINING ROOM/STORAGE Garage	NEW USE OF BUILDING 13' same & Conference Rm			ZONE M3-1
3. JOB ADDRESS 19310 Pacific Gateway Dr				FIRE DIST two
4. BETWEEN CROSS STREETS 190th St	AND Knox St			LOT TYPE --
5. OWNER'S NAME Pacific Bell	PHONE 818-578-2175			LOT SIZE inc legal
6. OWNER'S ADDRESS 177 E Colorado Bl	CITY Pasadena	ZIP 91105		
7. ENGINEER Farnad/Tabibzadeh	BUS LIC NO. 2138	ACTIVE STATE LIC NO 393-5939	PHONE	ALLEY --
8. ARCHITECT OR DESIGNER Rain Architecture	BUS LIC NO. C015278	ACTIVE STATE LIC NO 622-4993	PHONE	BLDG LINE --
9. ARCHITECT OR ENGINEER'S ADDRESS 818 W 7th St	CITY LA	ZIP 90017		AFFIDAVITS crit soil
10. CONTRACTOR	BUS LIC NO	ACTIVE STATE LIC NO	PHONE	

11. SIZE OF EXISTING BLDG WIDTH 41-4 LENGTH 334	STORIES 1	HEIGHT 14'	NO OF EXISTING BUILDINGS ON LOT AND USE 2-storage & office	PC REQ'D no (F)
12. CONST MATERIAL OF EXISTING BLDG →	EXT. WALLS conc block	ROOF wood	FLOOR conc / STREET GUIDE	DISTRICT OFFICE SP
13. JOB ADDRESS 19310 Pacific Gateway Dr				SEISMIC STUDY ZONE --
14. VALUATION TO INCLUDE ALL FIXED EQUIPMENT REQUIRED TO OPERATE AND USE PROPOSED BUILDING	$ 50,000.00			GRADING yes / FLOOD --
15. NEW WORK (Describe) interior remodel: new finishes, partitions. CHANGE OF OCCUPANCY				HWY. LIN -- / CONS --

3

NEW USE OF BUILDING (13) Same & Conference Rm	SIZE OF ADDITION -- N/A	STORIES 1	HEIGHT	ZONED BY J H
TYPE V	GROUP OCC A3/H4/B1	FLOOR AREA TOTAL N/C	PLANS CHECKED LAURENCE C. LEE	FILE WITH
DWELL UNITS N/A	MAX OCC. +84		APPLICATION APPROVED Laurence C. Lee	TYPIST Jnm
GUEST ROOMS N/A	PARKING REQ'D +53/27	PARKING PROVIDED STD. 257 COMP 85	INSPECTION ACTIVITY: COMB / GEN X / MAJS / CONS / EP	INSPECTOR

B & S B-3 (R 8 80)

PC 228 GE	GPI not req'd	CONT INSP	
SPC	PM		
BP 261.00	EI 35.00	Claims for refund of fees paid on permits must be filed 1 Within one year from date of payment of fee, or 2 Within one year from date of expiration of extension for building or grading permits granted by the Dept of B & S SECTIONS 22 12 & 22 13 LAMC	
TF --	FM 11.00		
SP NOT REQ'D	OTS		
DIST OFFICE SP	SGSS	SPRINKLERS REQ'D SPEC	
PC NO	CO	ENERGY NO.	

PLAN CHECK EXPIRES ONE YEAR AFTER FEE IS PAID PERMIT EXPIRES TWO YEARS AFTER FEE IS PAID (180 DAYS AFTER FEE IS PAID IF CONSTRUCTION IS NOT COMMENCED)

CASHIER'S USE ONLY: 61953 03/26/87 $3.37 CHTO

DECLARATIONS AND CERTIFICATIONS

LICENSED CONTRACTORS DECLARATION

16. I hereby affirm that I am licensed under the provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Date _____ Lic Class _____ Lic Number _____ Contractor _____ (Signature)

OWNER-BUILDER DECLARATION

17. I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property, who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)

☑ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.).

☐ I am exempt under Sec. _____ B. & P. C. for this reason _____

Date 3/24/87 Owner's Signature _____

WORKERS' COMPENSATION DECLARATION

18. I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.).

Policy No _____ Insurance Company _____

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the Los Angeles City Dept. of Bldg. & Safety

Date _____ Applicant's Signature _____

Applicant's Mailing Address _____

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

19. I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date 3/24/87 Applicant's Signature _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you shall become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

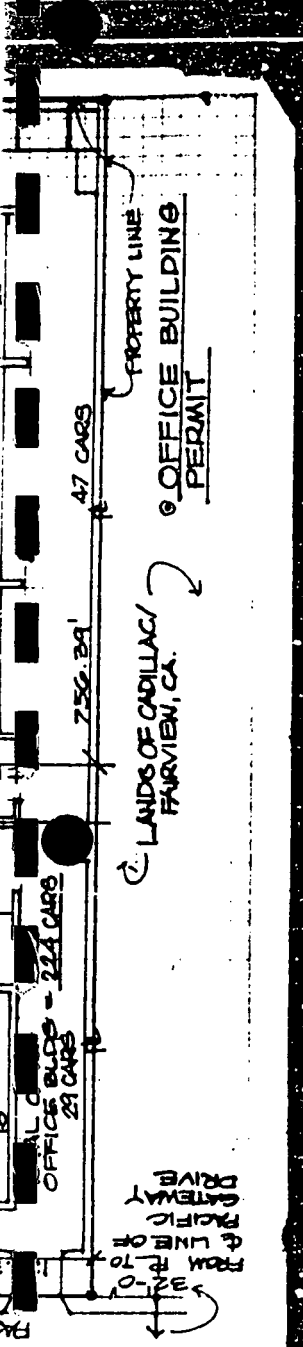
CONSTRUCTION LENDING AGENCY

20. I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.).

Lender's Name _____ Lender's Address _____

21. I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

I realize that this permit is an application for inspection, that it does not authorize or authorize the work specified herein, that it does not authorize or permit any violation or failure to comply with any applicable law, and that neither the City of Los Angeles nor any board, department, officer or employee thereof make any warranty or shall be responsible for the performance or result of any work described herein.



1 C-8

APPLICATION FOR INSPECTION OF NEW BUILDING AND FOR CERTIFICATE OF OCCUPANCY

CITY OF LOS ANGELES — B&S B-1 — R8.77 — DEPT. OF BUILDING AND SAFETY

INSTRUCTIONS: 1. Applicant to Complete Numbered Items Only. 2. Plot Plan Required on Back of Original.

1. LEGAL DESCR.	LOT 26, 27 FRAC 22 & ROSEMEAD FRAC 23 (VACATED)	TRACT 4671	DIST. MAP 7940 / CENSUS TRACT 2921.00
2. PURPOSE OF BUILDING	08 Repair Garage & Storage		ZONE M3-1
3. JOB ADDRESS	19310 ~~19320~~ Pacific Gateway Drive		FIRE DIST. II
4. BETWEEN CROSS STREETS	190th St. AND Knox		LOT (TYPE)
5. OWNER'S NAME	Cadillac Fairview	PHONE 637-0777	LOT SIZE
6. OWNER'S ADDRESS	2200 W. Artesia Blvd., CITY Compton	ZIP 90220	
7. ENGINEER	Erkel/Green Field BUS. LIC. NO.	ACTIVE STATE LIC. NO. SE883 PHONE 278-8133	ALLEY
8. ARCHITECT OR DESIGNER	Group Acron BUS. LIC. NO.	ACTIVE STATE LIC. NO. C-5847 PHONE 689-4411	BLDG. LINE
9. CONTRACTOR	Oltmans Const. BUS. LIC. NO.	ACTIVE STATE LIC. NO. 86393 PHONE 576-8474	AFFIDAVITS
10. BRANCH LENDER	ADDRESS	CITY	
11. SIZE OF NEW BLDG.	WIDTH 41' LENGTH 334'	STORIES 1&2 HEIGHT 22 NO. OF EXISTING BUILDINGS ON LOT AND USE None	
12. MATERIAL OF CONSTRUCTION	EXT. WALLS Masonry	ROOF Wood FLOOR Conc./Wd.	SEISMIC STUDY ZONE
13. JOB ADDRESS	19310 ~~19320~~ Pacific Gateway Drive		DIST. OFFICE San Pedro
14. VALUATION TO INCLUDE ALL FIXED EQUIPMENT REQUIRED TO OPERATE AND USE PROPOSED BUILDING	$ 291,000.00		CRIT. SOIL
	2 of 2 Total Val. $1,791,000.00		GRADING
			HIGHWAY DED. No

PURPOSE OF BUILDING	08 Repair Garage & Storage	STORIES 1&2	HEIGHT 22	FLOOD
TYPE V	GROUP OCC. G-1/F-1	BLDG. AREA 13,400	PLANS CHECKED [signature]	CONS.
DWELL. UNITS NC	MAX. OCC. TRAINING ROOM = 49	TOTAL	PLANS APPROVED [signature]	ZONED BY Breskovich
GUEST ROOMS —	PARKING REQ'D 27	PARKING PROVIDED STD. SEE COMP. OVER	APPLICATION APPROVED [signature]	FILE WITH
SPRINKLERS REQ'D SPECIFIED NO	CONT. INSP. LIC GUILLAM		INSPECTION ACTIVITY COMB GEN MAX. CONS	INSPECTOR M

P.C.	S.P.C.	B.P.	T.I.	P.M.	I.F.	G.P.I.	C/O	O.S.
3907.37		1016.95		20.34				

P.C. NO.	WORKER'S COMPENSATION INSURANCE CERTIFICATE		TYPIST
B-1798	ON FILE [signature] EXEMPT	Energy: 10% (SEE OVER)	cak

PERMIT EXPIRES TWO YEARS AFTER FEE IS PAID OR 180 DAYS AFTER FEE IS PAID IF CONSTRUCTION IS NOT COMMENCED.

CASHIER'S USE ONLY

Nov. 1, 1978 03325 P-6CK 3,907.37

13P

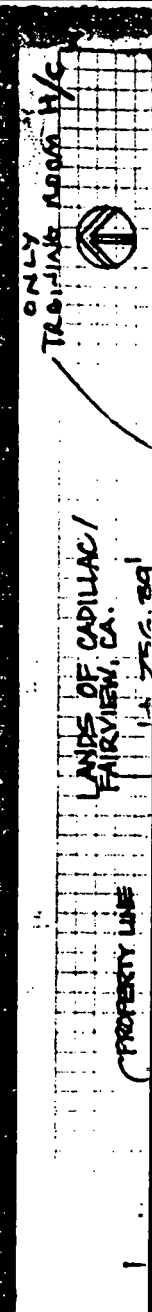
FEB-15-79 0[illegible] [illegible] CK 1,037.29

LIMIT OF PERMIT

"This permit is an application for inspection, the issuance of which is not an approval or an authorization of the work specified herein. This permit does not authorize or permit, nor shall it be construed as authorizing or permitting the violation or failure to comply with any applicable law. Neither the City of Los Angeles, nor any board, department, officer or employee thereof make any warranty or shall be responsible for the performance or results of any work described herein, or the condition of the property or soil upon which such work is performed." (See Sec. 91.0202 L.A.M.C.)

Signed [signature]
(Owner or Agent having Property Owner's Consent)
ALSO, sign statement on reverse side, if applicable.

			Signature/Date
Bureau of Engineering	ADDRESS APPROVED		M. GROSSMAN 1/26/79
	DRIVEWAY		M. GROSSMAN 1/26/79
	HIGHWAY DEDICATION	REQUIRED	
		COMPLETED	
	FLOOD CLEARANCE		
	SEWERS SFC DUE $40.00 M.G	X SEWERS AVAILABLE	M. Grossman 1/26/79
		NOT AVAILABLE	
		SFC PAID	
	SFC NOT APPLICABLE	X SFC DUE	M. GROSSMAN 1/26/79
Conservation	APPROVED FOR ISSUE ☐ NO FILE ☐ FILE CLOSED ☐		
Fire	APPROVED (TITLE 19) (L.A.M.C. 5700)		[signature] 1/26/79
Housing	HOUSING AUTHORITY APPROVAL		
Planning	APPROVED UNDER CASE [illegible]		[illegible]



C-8

B&S B-1 — R8.77

BUILDING AND SAFETY

k of Original.

MAP 7940

CENSUS TRACT 2921.00

-1

DIST. II

LOT (TYPE)

SIZE

ALLEY

LINE

AFFIDAVITS

SEISMIC STUDY ZONE

OFFICE Pedro

SOIL

LOOD

kovich

LE WITH

O.S.

TYPIST ak

OMMENCED

76

37.29

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City of Los
responsible
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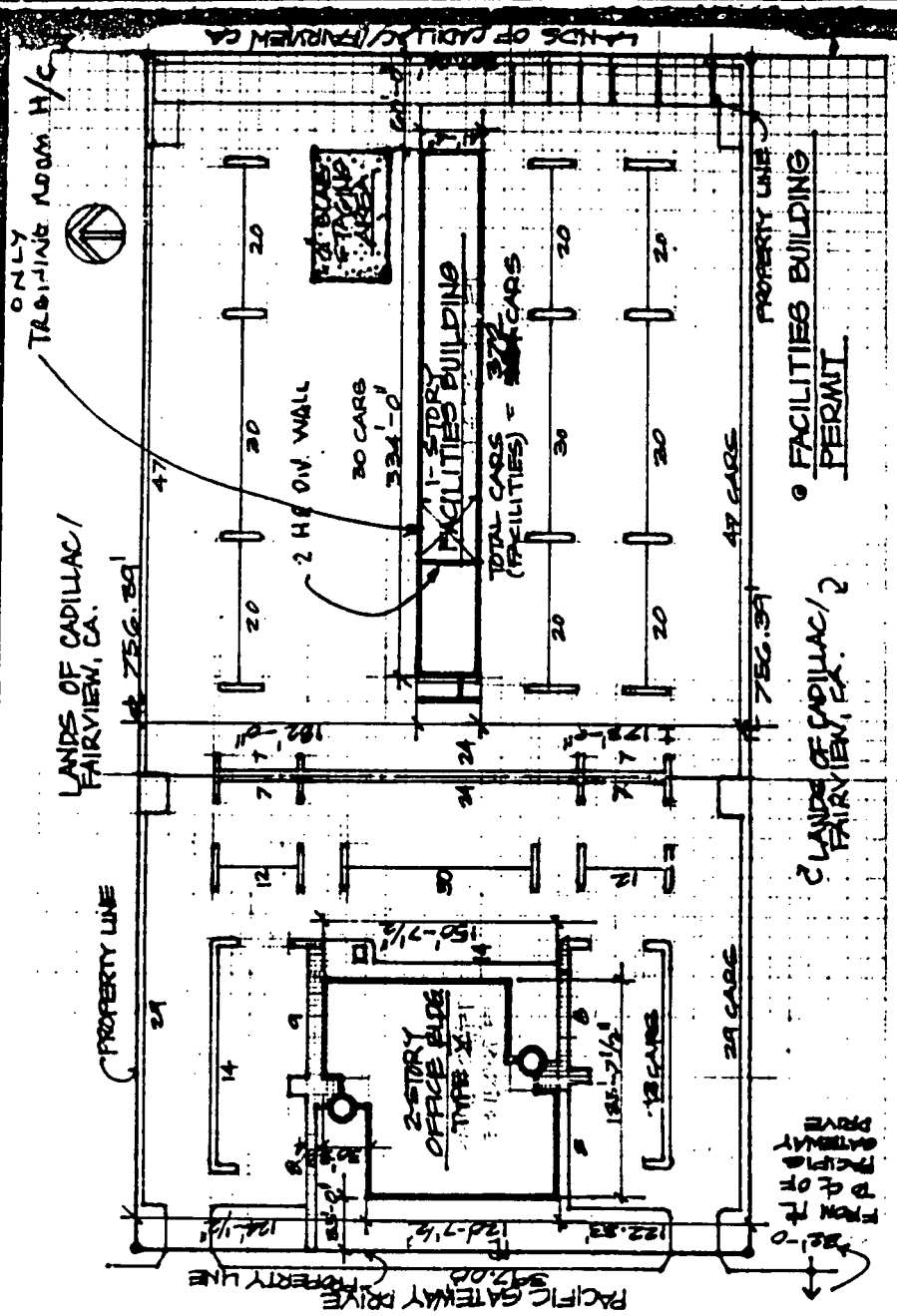

3 APPLICATION FO

CITY OF LOS ANGELES

INSTRUCTIONS: Applicant

1. LEGAL DESCR. LOT

2. PRESENT USE OF BUILDING (17) Restaurar

3. JOB ADDRESS 802 Gardena Bl

4. BETWEEN CROSS STREETS Ainsowrth

5. OWNER'S NAME Peter Fernande

6. OWNER'S ADDRESS 120 Hill St.

7. ENGINEER

8. ARCHITECT OR DESIGNER

9. CONTRACTOR Not Selected

10. BRANCH LENDER

11. SIZE OF EXISTING BLDG. WIDTH 44'6" LENGTH 44'6"

12. CONST. MATERIAL OF EXISTING BLDG. → EXT. WA S

3 13. JOB ADDRESS 802 G

14. VALUATION TO INCLUDE A EQUIPMENT REQUIRED TO AND USE PROPOSED BUILT

15. NEW WORK: (Describe) Wood fr

48' x 91' & in

NEW USE OF BUILDING Restaurant

TYPE V	GROUP OCC. B-2
DWELL. UNITS 0	MAX OCC.
GUEST ROOMS	PARKING REQ'D
SPRINKLERS REQ'D SPECIFIED	CONT. INSP.
P.C.	S.P.C.
P.C. NO.	WORKER'S COMP ON FILE

PERMIT EXPIRES TWO YEARS AFTE

CASHIER'S USE ONLY

"This permit is an applica zation of the work specified ho authorizing or permitting the v Angeles, nor any board, depart for the performance or results which such work is performed."

Signed (Owner or Agent Revin ALSO, sign statement o

Bureau of Engineering	AD DF HI FL
SEWERS	
	SFC NOT APPLIC.
Conservation	APPROVED FOR T
Fire	APPROVED (TITLE
Housing	HOUSING AUTHOR
Planning	APPROVED UNDE
Traffic	APPROVED FOR

CITY OF LOS ANGELES
CALIFORNIA

CHARLES H. PRATT
GENERAL MANAGER

DEPARTMENT OF
BUILDING AND SAFETY
200 SOUTH SPRING STREET
LOS ANGELES, CALIF. 90012

TOM BRADLEY
MAYOR

Cadillac Fairview/California, Inc.
2200 West Artesia Blvd.
Compton, CA 90220

LOCATION: 19310 Pacific Gateway Drive
TRACT : 4571 & Vacated Rosemead St.
LOTS HAVING COMPACTED FILL: 21,22,23,26,27&28

DATE : April 2, 1979
PERMIT: SP 59967/78
D M # : 7940

SUBJECT: PRIMARY STRUCTURAL FILL - Office Bldg. Only

Fill soil classification, per Table 28-A Clayey silt

Approval is granted for compacted fill constructed on the above lots as described in the compaction report No. * dated February 26, 1979 , prepared by Converse Ward Davis Dixon . *78-2351-04

Approval is limited to the area shown in the report and by the following requirements:

A. Compacted fill shall extend beyond the footings a minimum distance equal to the depth of fill below the footings.
B. Footing bearing pressure for all structures shall not exceed a value of ** lbs. per sq. ft. at ** inches minimum, below approved compacted surface.
C. Continuous footings per Code Section 91.3012 are required.
D. Dwelling foundations located partially or wholly upon compacted fill ground shall meet the requirements of Section 91.3012.
E. Slope erosion control, planting, and irrigation of fill slopes, and runoff control are required as per Code Section 91.3007.
F. Building or structure footings shall be set back 5 feet from the face of slopes 20 feet or less in vertical height where the slope angle is between 1½ horizontal to 1 vertical and 2 horizontal to 1 vertical. Where the vertical height of slope exceeds 20 feet and the slop angle is as described above, the set back shall be increased 1 foot for each additional 5 feet in vertical height over 20 feet to a maximum set back of 10 feet. For slopes exceeding 100 feet in vertical height the set back shall be 40 feet except as permitted in Code Section 91.3009(c).

**2000#/sq. ft. (strip footings), 1750#/sq. ft. (sq. footings), and 2500#/sq. ft. (columns) @ 18" exterior footings & 12" interior footings.

JOHN O. ROBB
Chief of Grading Division

By [signature]
Grading Engineer
485-3435

cc: Converse Ward Davis Dixon
SP Inspection - Fierro

PH:mra

B&S B-142 R4.78

CITY OF LOS ANGELES
CALIFORNIA

CK M FRATT
ERAL MANAGER

DEPARTMENT OF
BUILDING AND SAFETY
400, CITY HALL
LOS ANGELES, CALIF. 90012

TOM BRADLEY
MAYOR

8

Cadillac Fairview/Calif. Inc.
2200 West Artesia Blvd.
Compton, CA 90220
Attn: Mr. Charlie Mitchell

LOCATION: 19310 Pacific Gateway Drive
TRACT : 4671 - Vacated Rosemead Street
LOTS HAVING COMPACTED FILL: 21, 22, 23, 26, 27 & 28

DATE : [redacted]
PERMIT: 61136 P/79
D M # : 7940

SUBJECT: PRIMARY STRUCTURAL FILL Office Building

Fill soil classification, per Table 28-A Clayey silt

Approval is granted for compacted fill constructed on the above lots as described in the compaction report No. * dated [redacted], prepared by Converse Ward Davis Dixon *78-2351-04

Approval is limited to the area shown in the report and by the following requirements:

A. Compacted fill shall extend beyond the footings a minimum distance equal to the depth of fill below the footings.
B. Footing bearing pressure for all structures shall not exceed a value of * lbs. per sq. ft. at ** inches minimum, below approved compacted surface.
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* 2000 (strip footing) ; 1750 (sq. footing) & 2500 (columns) @
** 18" (exterior footing) & 12" (interior footing).

JOHN O. ROBB
Chief of Grading Division

By [signature]
Grading Engineer
485-3435
PN:ga

cc: Converse Ward Davis Dixon
SP - Insp./Fierro

B&S B-142 R4.78

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY

ENGINEER'S CERTIFICATE OF COMPLIANCE FOR COMPACTED EARTH FILLS

LOCATION OF FILL: TRACT NO. 4671 LOT NOS. 21, 22, 23, 26, 27, 28

JOB ADDRESS: 19310 Pacific Gateway Drive

SOIL TESTING AGENCY: CONVERSE WARD DAVIS DIXON

PROPERTY OWNER'S NAME: CADILLAC Fairview/CALIFORNIA, INC.

OWNER'S ADDRESS: 2200 West Artesia, Compton, California

PER REPORTS ON OUR PROJECT NO. 78-2351-04

DATE WORK STARTED ON PROJECT: 12-4-78

DATE FILL WAS COMPLETED: 2-19-79

DATE OF THIS CERTIFICATE: 2-26-79

TO THE SUPERINTENDENT OF BUILDING:

*I hereby certify that I have personally inspected and tested the placing of compacted earth fill on the above described property, and on the basis of these inspections and tests it is my opinion that the same was placed in conformity with the requirements of the Los Angeles City Building Code.

James M Bell

Civil Engineer
California Certificate No. 11519

*For the purpose of this Certificate, to "have personally inspected and tested" shall include inspection and testing performed by any person responsible to the licensed engineer signing this certificate. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the licensed engineer whose signature is affixed thereon.

X B&S G-22 4.67

ConverseWardDavisDixon
Geotechnical Consultants

February 26, 1979

Cadillac Fairview/California, Inc.
2200 West Artesia Boulevard
Compton, California 90220

Attention: Mr. Charlie Mitchell

Subject: Project No. 78-2351-04, Proposed Pacific Telephone Building, 19310 Pacific Gateway Drive, Los Angeles, California

Gentlemen:

This is to report the results of tests and observations made during the recent grading in the vicinity of the office building at the Pacific Telephone site. The grading in the remainder of the site is currently underway and will be reported upon completion.

A foundation investigation was performed at this site by Converse Ward Davis Dixon in June 30, 1978 (Project No. 78-2223-01). A supplemental letter was dated September 27, 1978. The City of Los Angeles Department of Building and Safety approved these reports in their letter dated January 19, 1979.

Tests and observations during the grading operation were provided by a representative of Converse Ward Davis Dixon to check the grading contractor on compliance with the drawings and job specifications. The presence of our field representative at the site was to provide to the owner a continuing source of professional advice, opinions and recommendations based upon the field representative's observations of the contractor's work and did not include any superintending, supervision or direction of the actual work of the contractor or the contractor's workmen. The opinions and recommendations presented hereafter are based on our tests and observations of the grading procedures used, and represent our engineering judgment as to the contractor's compliance with the drawings and job specifications.

Converse Ward Davis Dixon, Inc.
1440 South State College Blvd.
Post Office Box 6288
Anaheim, California 92806
714 772-2161 213 681-1121

1 2 1 0 0 6 0 0 0 8 4

The grading operation was observed to be performed in the following manner:

1. Surface structures, vegetation, trash and miscellaneous debris were cleared from the area to be graded.

2. All subsurface structures encountered, including footings and pipes, were removed with the building area. The zone of removal extended outside the building line a distance at least equal to the depth of fill.

3. The ends of pipes left in place outside the building area were sealed in order to avoid migration of water through the pipe and into the fill.

4. Unsatisfactory soils, old fill and buried trash and debris within the building area were excavated to expose competent materials on which to start the fill.

5. Approved soils were placed in layers on the prepared surface and each layer was compacted before the next layer was added.

6. The limits and depths of the compacted fill is shown on Drawing No. 1.

7. The soils used in the compacted fill consisted of on-site and imported clayey silt and crushed gravel.

Field density tests were made during the placement of fill to determine the degree of compaction and moisture content. Where tests or field observations indicated less than 90 percent compaction, additional compactive effort with adjustment of the moisture content where necessary was performed before the next layer was added. All field density tests are listed in Table I and their approximate locations are shown on Drawing No. 1.

1 2 1 0 0 6 0 0 0 8 5

The maximum dry density and optimum moisture content of representative soil samples were determined in our laboratory using the A.S.T.M. D1557-70 test method. The results of these tests are presented in Table II.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our tests, on observations of the construction procedures and on our experience, it is our opinion that the grading described above was performed in accordance with our recommendations, the applicable portions of the job specifications and the applicable portions of the City of Los Angeles letter of January 19.

In our opinion, the design recommendations presented in our June 30, 1978 report, including the 2000, 1750, and 2500 psf allowable bearing values are applicable to this compacted fill.

The recommendations in this report apply only to the building pad in its present configuration. Any changes should be evaluated by a soils engineer.

The findings and recommendations of this report were prepared in accordance with generally accepted professional principles and practice in the fields of soil mechanics and foundation engineering. This warranty is in lieu of all other warranties, either express or implied.

Thank you for the opportunity to be of service on this project. If you have any questions, please call Mr. Don Coduto of our office.

Respectfully submitted,

CONVERSE WARD DAVIS DIXON

By Donald P. Coduto
Donald P. Coduto
Staff Engineer

Reviewed and Approved:

James M. Bell
James M. Bell, R.C.E. 11519
Chief Engineer

DPC/JMB:bl
Dist: (4) Addressee
(2) City of Los Angeles, Dept. of Bldg. & Safety (San Pedro Office), Attn: Mr. Sy Fierro
(1) Psomas & Assoc., Irvine; Attn: Mr. Pete Van Riper
(1) Oltmans Construction Co.; Attn: Mr. Steve Welsh
(1) Mr. Tom Streit
Encl: Tables I and II
Drawing No. 1

1210060086

TABLE OF TEST RESULTS

TABLE I
FIELD DENSITY TESTS

Test Date	Location of Test	Approx. Elevation of Test (Feet)	Approx. Depth of Fill Below Test (Feet)	(1) Dry Density (p.c.f.)	Field Moisture Content Percent of Dry Weight	(2) Soil Type	Percent Compaction
1/4/79	West of office bldg.	34.0	1.0	112	11.6	2	91
1/4/79	West of office bldg.	36.0	3.0	112	13.3	2	91
1/25/79	East side of office bldg.	35.0	1.5	115	11.6	2	93
1/25/79	Noreast side of office bldg.	33.5	2.0	113	12.2	2	92
1/25/79	Southwest of office bldg.	38.0	2.5	111	13.1	2	90
1/25/79	Northeast of office bldg.	35.5	4.0	111	11.8	2	90
1/26/79	Northwest of office bldg.	37.0	3.5	111	12.2	1	93
1/26/79	South of office bldg.	37.0	2.6	115	13.4	2	94
1/26/79	West of office bldg.	37.0	1.0	114	12.1	2	93
1/26/79	North of office bldg.	35.0	2.0	113	13.8	2	92
1/26/79	North of office bldg.	38.0	5.0	114	13.3	2	92
1/29/79	West of office bldg.	35.5	2.0	114	12.6	2	93
2/20/79	North of office bldg.	39.0	5.0	116	13.9	2	94
2/20/79	Southeast of office bldg.	40.2	4.0	112	14.6	2	91
1/30/79	West of office bldg.	37.0	4.0	135	7.2	3	99
2/13/79	West of office bldg.	36.0	2.0	110	14.3	2	90
2/13/79	East of office bldg.	37.0	3.0	112	13.8	2	91
2/19/79	South of office bldg.	38.0	2.0	110	13.2	2	90

es:

Density of the compacted fill was determined in the field by the A.S.T.M. D1556-64 sand cone and A.S.T.M. D2937-71 drive cylinder tests. The moisture content of the soil samples obtained from the sand cone and drive cylinder tests was determined using a calcium carbide gas pressure moisture tester.

Soil Type is given on Table II, laboratory Maximum Density Tests.

Field density tests not listed in Table I are located outside the office building area and will be presented in a future report.

TABLE II
LABORATORY MAXIMUM DENSITY TESTS*

Soil Description	Maximum Dry Density, p.c.f.	Optimum Moisture Content - Percent
Brown CLAYEY SILT	120	11.5
Brown CLAYEY SILT	123	11.2
Gray Crushed Miscellaneous Gravel	136	7.0

.T.M. D1557-70 Test Method.

CITY OF LOS ANGELES
Department of Building and Safety
GRADING INSPECTOR'S COMPACTION RECORD

GRADING MAR 05 1979

SP 59967/78 — Permit Number
7940 — Dist. Map Number
DEPT. 1-19-79

Tract 4671 & VACATED ROSEHEAD ST. Lots 21-22 & 23 & 26, 27 & 28

Street Location 19310 PACIFIC GATE WAY DR.

Hillside _____ Flat Hillside _____ Flatland ✓

1. Field Compaction Approved YES

2. Field Compaction Not Approved _____

Fill Lot No.'s 22, 23, 26, 27 & PORTION OF ROSEHEAD (VAC) ST.
All lots not listed above are considered to be cut or natural.

Buttress Fill Lot No.'s _____

Required retaining wall on lot No.'s _____

Lot No.'s having fill over 100 ft. deep _____

_____, to be held until _____

Sub-drain termination lot No.'s _____

Additional Remarks:

① - THIS IS ONLY A PARTIAL COMPACTION REPORT FOR OFFICE BUILDING ONLY.

② READY FOR B142

Inspector Sy Fierro Dist. SAN PEDRO

Date 3/2/79

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY

ENGINEER'S CERTIFICATE OF COMPLIANCE FOR COMPACTED EARTH FILLS

LOCATION OF FILL: TRACT NO. 4671 LOT NOS. 21, 22, 23, 26, 27 & 28

JOB ADDRESS: 19310 Pacific Gateway Drive

SOIL TESTING AGENCY: Converse Ward Davis Dixon

PROPERTY OWNER'S NAME: Cadillac Fairview/California, Inc.

OWNER'S ADDRESS: 2200 West Artesia, Compton, California 90220

PER REPORTS ON OUR PROJECT NO. 78-2351-04

DATE WORK STARTED ON PROJECT: 1/4/79

DATE FILL WAS COMPLETED: 4-7-79

DATE OF THIS CERTIFICATE: 4/11/79

TO THE SUPERINTENDENT OF BUILDING:

*I hereby certify that I have personally inspected and tested the placing of compacted earth fill on the above described property, and on the basis of these inspections and tests it is my opinion that the same was placed in conformity with the requirements of the Los Angeles City Building Code.

James M. Bell

Civil Engineer
California Certificate No. 11519

*For the purpose of this Certificate, to "have personally inspected and tested" shall include inspection and testing performed by any person responsible to the licensed engineer signing this certificate. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the licensed engineer whose signature is affixed thereon.

X B&S G-22 4.67

0C8908

ConverseWardDavisDixon

Geotechnical Consultants

April 11, 1979

Cadillac Fairview/California, Inc.
2200 West Artesia Boulevard
Compton, California 90220

Attention: Mr. Charlie Mitchell

Subject: Project No. 78-2351-04, Proposed Pacific Telephone Building, 19310 Pacific Gateway Drive, Los Angeles, California

Gentlemen:

This is to report the results of tests and observations made during the recent grading at the Pacific Telephone site. The grading in the vicinity of the office building was discussed in our February 26, 1979 report. This report includes the remainder of the site.

A foundation investigation was performed at this site by Converse Ward Davis Dixon on June 30, 1978 (Project No. 78-2223-01). A supplement letter was dated September 27, 1978. The City of Los Angeles Department of Building and Safety approved these reports in their letter dated January 19, 1979.

Tests and observations during the grading operation were provided by a representative of Converse Ward Davis Dixon to check the grading contractor on compliance with the drawings and job specifications. The presence of our field representative at the site was to provide to the owner a continuing source of professional advice, opinions and recommendations based upon the field representative's observations of the contractor's work and did not include any superintending, supervision or direction of the actual work of the contractor or the contractor's workmen. The opinions and recommendations presented hereafter are based on our tests and observations of the grading procedures used, and represent our engineering judgment as to the contractor's compliance with the drawings and job specifications.

1 2 1 0 0 5 0 0 0 9 0

Converse Ward Davis Dixon, Inc.
1440 South State College Blvd.
Post Office Box 6298
Anaheim, California 92806
714 772-2151 213 881-1121

The grading operation was observed to be performed in the following manner:

1. Surface structures, vegetation, trash and miscellaneous debris were cleared from the area to be graded.

2. All subsurface structures encountered, including footings and pipes, were removed with the building area. The zone of removal extended outside the building line a distance at least equal to the depth of fill. All subsurface structures within one foot of the finished subgrade in the parking area were removed.

3. The ends of pipes left in place outside the building area were sealed in order to avoid migration of water through the pipe and into the fill.

4. Unsatisfactory soils, old fill and buried trash and debris were excavated to expose competent materials on which to start the fill.

5. Approved soils were placed in layers on the prepared surface and each layer was compacted before the next layer was added. Crushed gravel was used in the backfill of vaults and vats.

6. The limits and depths of the compacted fill is shown on Drawing 1.

7. The soils used in the compacted fill consisted of on-site and imported clayey silt and crushed gravel.

Field density tests were made during the placement of fill to determine the degree of compaction and moisture content. Where tests or field observations indicated less than 90 percent compaction, additional compactive effort with adjustment of the moisture content where necessary was performed before the next layer was added. All field density tests are listed in Table I and their approximate locations are shown on Drawing 1.

1 2 1 0 0 6 0 0 0 9 1

The maximum dry density and optimum moisture content of representative soil samples were determined in our laboratory using the ASTM D1557-70 test method. The results of these tests are presented in Table II.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our tests, on observations of the construction procedures and on our experience, it is our opinion that the grading described above was performed in accordance with our recommendations, the applicable portions of the job specifications and the applicable portions of the City of Los Angeles letter of January 19.

In our opinion, the design recommendations presented in our June 30, 1978 report, including the 2000, 1750, and 2500 psf allowable bearing values are applicable to this compacted fill.

The recommendations in this report apply only to the building pad in its present configuration. Any changes should be evaluated by a soils engineer.

The findings and recommendations of this report were prepared in accordance with generally accepted professional principles and practice in the fields of soil mechanics and foundation engineering. This warranty is in lieu of all other warranties, either express or implied.

Thank you for the opportunity to be of service on this project. If you have any questions, please call Mr. Don Coduto of our office.

Respectfully submitted,

CONVERSE WARD DAVIS DIXON

By Donald P. Coduto
Donald P. Coduto
Staff Engineer

Reviewed and Approved:

James M. Bell
James M. Bell, R.C.E. 11519
Chief Engineer

DPC/JMB:bl
Encl: Drawing 1
Tables I and II
Dist: (4) Addressee
(2) City of Los Angeles, Dept. of Bldg. & Safety (San Pedro office) with Certificates - Attn: Mr. Fierro
(1) Psomas & Assoc., Irvine; Attn: Mr. Peter Van Riper
(1) Oltmans Construction Co.; Attn: Mr. Steve Welsh

1 2 1 0 0 6 0 0 0 9 2

TABLE OF TEST RESULTS

TABLE I
FIELD DENSITY TESTS

Test Date	Location of Test	Approx. Elevation of Test (Feet)	Approx. Depth of Fill Below Test (Feet)	(1) Dry Density (p.c.f.)	Field Moisture Content Percent of Dry Weight	(2) Soil Type	Percent Compaction
1/4/79	S.E. Mid Area	32.0	2.0	112	13.8	2	91
1/4/79	S.E. Mid Area	34.0	4.0	111	12.1	1	93
1/4/79	S.W. Mid Area	36.5	0.0	110	14.2	2	90
1/25/79	S.W. Area	37.0	0.5	110	13.2	2	90
1/26/79	N.W. Area	35.0	1.0	113	13.8	2	92
1/26/79	N.W. Area	37.0	3.0	113	11.8	2	92
1/27/79	S. Mid Area	35.0	2.0	107	15.4	2	87
1/27/79	S. Mid Area	35.0	2.0	112	13.9	2	91
1/27/79	N.W. Area	34.0	1.0	112	14.2	2	91
1/27/79	N.W. Area	35.0	2.0	113	12.9	2	92
1/29/79	S. Mid Area	36.0	1.0	111	14.3	2	91
1/29/79	S. Mid Aree	35.0	2.0	114	13.6	2	92
1/29/79	N. Mid Area	34.5	1.0	113	12.6	2	92
1/29/79	Mid Area	35.0	2.0	104	15.2	1	87
1/29/79	Mid Area	35.0	2.0	112	13.5	1	93
1/27/79	Facilities Bldg.	34.0	1.0	112	13.8	2	91
1/27/79	Facilities Bldg.	35.0	2.0	114	12.1	2	93
1/29/79	Facilities Bldg.	36.0	3.0	113	11.9	2	92
2/13/79	Facilities Bldg.	36.0	2.0	116	12.6	2	95
2/13/79	Facilities Bldg.	37.0	4.0	115	13.7	2	94
2/13/79	Facilities Bldg.	19.0	2.0	114	13.5	2	93
3/5/79	Facilities Bldg.	21.0	4.0	113	15.4	2	92
1/30/79	Mid Area	34.0	1.0	112	14.3	2	91
1/30/79	Mid Area	36.0	2.0	114	12.9	2	93
1/30/79	Old Structure	24.0	2.0	135	6.4	3	99
1/30/79	Mid Area	38.0	4.0	110	13.7	2	91
2/13/79	N.W. of Office	38.0	4.0	111	12.2	2	90
2/19/79	S. Mid Area	37.0	3.0	112	14.8	2	91
2/19/79	S. of Office	38.0	2.0	112	12.7	2	91
2/19/79	N. Mid Area	36.5	2.0	113	12.3	2	92
2/19/79	N. of Office	38.0	3.5	112	14.4	1	93
2/20/79	N. Mid Area	35.0	1.0	111	15.8	2	91
2/20/79	N. Mid Area	37.0	3.0	108	15.9	2	88
2/20/79	N. Mid Area	37.0	3.0	111	14.7	2	90
2/20/79	N. Mid Area	37.0	3.0	111	14.2	2	90
2/27/79	S. of Office	39.0	2.0	112	13.1	2	91
2/27/79	E. of Office	38.0	5.0	115	15.0	2	93
3/1/79	N. of Office	39.0	4.5	111	14.3	2	90
3/5/79	Old Vault	26.0	3.0	127	8.6	3	94
3/5/79	Old Vault	27.0	5.0	131	9.1	3	97
3/5/79	Old Vault	30.0	7.0	127	8.4	3	93
3/5/79	Old Vault	24.0	2.0	128	9.1	3	94

TABLE OF TEST RESULTS

TABLE I
FIELD DENSITY TESTS

Test Date	Location of Test	Approx. Elevation of Test (Feet)	Approx. Depth of Fill Below Test (Feet)	(1) Dry Density (p.c.f.)	Field Moisture Content Percent of Dry Weight	(2) Soil Type	Percent Compaction
3/5/79	Old Vault	26.0	4.0	129	6.7	3	95
3/5/79	Old Valve Box	24.0	2.0	125	9.8	3	92
3/5/79	Old Valve Box	26.0	4.0	130	7.7	3	96
3/6/79	S. Mid Area	35.0	2.0	112	15.1	2	91
3/6/79	Facilities Bldg.	36.0	3.0	108	16.5	2	88
3/6/79	Facilities Bldg.	36.0	3.0	111	14.9	2	90
3/6/79	N. Mid Area	33.0	1.0	110	15.3	1	92
3/6/79	Old Vault	32.0	1.0	113	14.2	2	92
3/7/79	Old Vault	33.0	11.0	112	13.7	2	91
3/7/79	Old Vault	35.0	4.0	112	11.6	1	93
3/7/79	S. of Facilities Bldg.	33.0	1.0	110	15.2	1	91
3/7/79	S. of Facilities Bldg.	32.0	2.0	112	13.4	1	93
3/7/79	N. of Facilities Bldg.	34.0	2.0	110	16.0	2	90
3/8/79	S. of Facilities Bldg.	34.0	4.0	105	17.4	1	88
3/8/79	S. of Facilities Bldg.	34.0	4.0	112	14.7	1	93
3/8/79	Mid Area	36.0	2.0	114	13.8	2	92
3/8/79	Facilities Bldg.	23.0	6.0	111	14.9	2	91
3/8/79	Facilities Bldg.	25.0	8.0	111	13.8	2	90
3/9/79	Facilities Bldg.	27.0	10.0	110	15.6	1	92
3/9/79	S. Mid Area	37.0	3.0	111	12.4	1	93
3/9/79	N.W. Area	38.0	4.0	110	16.0	1	92
3/9/79	Facilities Bldg.	29.0	12.0	111	13.6	2	90
3/10/79	Facilities Bldg.	31.0	13.0	114	14.3	2	93
3/10/79	So. of Facilities Bldg.	36.0	2.0	112	15.1	2	91
3/10/79	N.E. Area	35.0	3.0	110	16.1	1	91
3/10/79	Facilities Bldg.	34.0	2.0	111	14.9	2	90
3/10/79	N. of Facilities Bldg.	33.0	5.0	112	12.8	2	91
3/10/79	N. Mid Area	35.0	3.0	113	13.4	2	92
3/10/79	N. of Facilities Bldg.	36.0	3.0	112	14.2	1	94
3/12/79	S.E. Area	36.0	2.0	112	14.9	2	91
3/12/79	Mid Area	38.0	4.0	112	12.1	2	91
3/12/79	Old Vault	35.0	17.0	114	13.8	2	92
3/12/79	N. of Facilities Bldg.	36.0	8.0	110	15.2	1	92
3/12/79	Facilities Bldg.	35.0	3.0	105	17.4	2	85
3/12/79	Facilities Bldg.	35.0	3.0	112	15.3	2	91
3/13/79	W. of Facilities Bldg.	36.0	3.0	111	14.1	2	90
3/13/79	N. Mid Area	38.0	4.0	110	13.6	2	90
3/13/79	Facilities Bldg.	36.0	2.0	111	15.4	1	93
3/26/79	Facilities Bldg.	36.0	4.0	110	14.3	2	90
3/26/79	Facilities Bldg.	37.0	6.0	112	14.7	2	91
3/26/79	Facilities Bldg.	38.0	5.0	112	12.8	2	91
3/26/79	N. of Bldg. Pipe Removal	35.0	2.0	107	13.3	1	89
3/26/79	N. of Bldg. Pipe Removal	35.0	2.0	109	13.8	1	91

TABLE OF TEST RESULTS

TABLE I
FIELD DENSITY TESTS

Test Date	Location of Test	Approx. Elevation of Test (Feet)	Approx. Depth of Fill Below Test (Feet)	(1) Dry Density (p.c.f.)	Field Moisture Content Percent of Dry Weight	(2) Soil Type	Percent Compaction
4/3/79	Facilities Bldg.	37.0	20.0	113	14.6	2	92
4/3/79	Facilities Bldg.	38.0	6.0	108	15.6	1	90
4/3/79	N. of Facilities Bldg.	38.0	8.0	109	14.8	1	91
4/3/79	S. of Facilities Bldg.	37.0	5.0	108	13.4	1	90
4/4/79	Facilities Bldg.	38.5	14.0	112	13.2	2	91
4/4/79	Facilities Bldg.	38.5	6.0	111	13.8	1	92
4/4/79	Vault	37.0	2.0	132	8.2	3	97
4/4/79	Deep Vault	28.0	6.0	130	8.9	3	95
4/4/79	Deep Vault	30.0	8.0	133	9.2	3	98
4/4/79	Old Vault	32.0	10.0	106	17.2	1	88
4/5/79	Old Vault	32.0	10.0	111	14.9	1	92
4/5/79	N.W. Area	39.0	5.0	112	14.4	2	91
4/5/79	N.E. Area	37.0	2.0	114	14.7	2	93
4/5/79	Old Vault	34.0	12.0	114	13.8	2	93
4/6/79	S.W. Area	38.5	2.0	111	14.6	2	90
4/6/79	S.E. Area	36.0	2.0	111	11.9	2	91
4/6/79	Old Vault	36.0	12.0	109	15.4	1	91
4/7/79	S. of Facilities Bldg.	38.0	7.0	112	14.9	2	91
4/7/79	N. of Facilities Bldg.	38.0	4.5	117	13.2	2	95
4/7/79	E. Area	37.5	2.0	113	14.6	1	94
4/7/79	N.E. Area	38.5	3.0	110	13.8	1	91

Density of the compacted fill was determined in the field by the ASTM D1556-64 sand cone and ASTM D2937-71 drive cylinder tests. The moisture content of the soil samples obtained from the sand cone and drive cylinder tests was determined using a calcium carbide gas pressure moisture tester.

Soil Type is given on Table II, Laboratory Maximum Density Tests.

Mission field density tests were included in the February 26, 1979 report.

TABLE II
LABORATORY MAXIMUM DENSITY TESTS*

Soil Description	Maximum Dry Density, pcf	Optimum Moisture Content - Percent
Brown CLAYEY SILT	120	11.5
Brown CLAYEY SILT	123	11.2
Gray Crushed Miscellaneous GRAVEL	136	7.0

GRADING APR 25 1979

CITY OF LOS ANGELES
Department of Building and Safety
GRADING INSPECTOR'S COMPACTION RECORD

DEPT. LETTER

59967 P/10-20-78 — Permit Number
7940 — Dist. Map Number
1-19-79 — File Number

Tract 4671 & Vacated Rosebud St Lots 21-23, 26-28

Street Location 19310 Pacific Gate Wy

Hillside _____ Flat Hillside _____ Flatland ✓

1. Field Compaction Approved YES

2. Field Compaction Not Approved ——

office Bldg

Fill Lot No.'s 21-23 & 26-28
All lots not listed above are considered to be cut or natural.

Buttress Fill Lot No.'s ——

Required retaining wall on lot No.'s ——

Lot No.'s having fill over 100 ft. deep ——

——, to be held until _____

Sub-drain termination lot No.'s ——

Additional Remarks:

READY FOR B142

Inspector Sy Fierro Dist. G-Sp Pro

Date _____

LAS 8-163 (R1 6/8)

0639-2337

CONVERSE ENVIRONMENTAL WEST

3393 East Foothill Boulevard, Suite B
Pasadena, California 91107-3112

Telephone (818) 796-8200
FAX (818) 351-1060

July 24, 1990

Mr. Zolton Kucharik
Pacific Bell
177 E. Colorado Blvd., Rm. 920
Pasadena, California

Subject: EXPANDED REVIEW OF SITE SPECIFIC HISTORICAL DATA
Pacific Bell Facility (A5-615)
19310 Pacific Gateway Drive
Los Angeles, California
CEW Project. No. 90-41-416-01

Dear Mr. Kucharik:

This report represents the review of the existing available environmental data, and Converse Environmental West (CEW) recommendations for further site assessment regarding the subject site, as outlined in our proposal dated June 12, 1990.

This opportunity to be of service is appreciated. Should you have any questions or comments regarding this report, please contact the undersigned.

Sincerely,

CONVERSE ENVIRONMENTAL WEST

Michael S. Grossjan
Senior Staff Geologist

James L. Bruce
Senior Geologist

MSG/:90i

Dist: 2/Addressee

CONVERSE ENVIRONMENTAL WEST

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Pasadena, California 91107-3112

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FAX (818) 351-1060

REPORT

REVIEW OF SITE SPECIFIC HISTORICAL DATA

PACIFIC BELL (A5-615)
19310 PACIFIC GATEWAY DRIVE
LOS ANGELES, CALIFORNIA

PREPARED FOR

Pacific Bell
177 E. Colorado Boulevard
Pasadena, California

CEW Project No. 90-41-416-01

July 24, 1990

A Wholly Owned Subsidiary of
The Converse Professional Group

REPORT

REVIEW OF SITE SPECIFIC HISTORICAL DATA

PACIFIC BELL (A5-615)
19310 PACIFIC GATEWAY DRIVE
LOS ANGELES, CALIFORNIA

PREPARED FOR

Pacific Bell
177 E. Colorado Boulevard
Pasadena, California

CEW Project No. 90-41-416-01

July 24, 1990

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PROFESSIONAL CERTIFICATION

This report has been prepared by Converse Environmental West under the professional supervision of the person whose seal and signature appear hereon.

James L. Bruce
Senior Geologist

This report has been prepared for the exclusive use of Pacific Bell as it pertains to the property located at 19310 Pacific Gateway Drive, Los Angeles, California. Our services have been performed in accordance with applicable County ordinances and generally accepted practices in geosciences. No other warranty, either express or implied, is made.

Converse Environmental West (CEW) is not responsible or liable for any claims or damages associated with interpretation of available information. This report should not be regarded as a guarantee that no further contamination, beyond that which was detected in our investigations, is present beneath the property. In the event that any changes in the nature of the property occur or additional, relevant information about the property is brought to our attention, the conclusions and recommendations contained in this report may not be valid unless these changes and additional relevant information are reviewed and conclusions of this report are modified or verified in writing.

1.0 INTRODUCTION

At the request of Mr. Zolton Kucharik, Converse Environmental Consultants of California (CECC) conducted a preliminary site assessment of the Pacific Bell Facility (A5-615) located at 19310 Pacific Gateway Drive in Los Angeles, California, and presented a report of findings on December 28, 1989. The preliminary site assessment included subsurface drilling, sampling, and laboratory testing to determine the presence or absence of soil contamination at the site and identify areas of potential environmental concern on or near the site. The scope of work included site history review, site and vicinity inspection, review of available agency records, analysis and evaluation of analytical test results, and preparation of the report.

In June of 1990, Mr. Zolton Kucharik requested that Converse Environmental West (CEW) expand the site history review of the facility as part of Pacific Bell's decision for acquisition of this leased property. This expanded review is presented herein. Information regarding a former rubber manufacturing plant at the site, which was previously hearsay, has been documented by building permits and aerial photographs.

2.0 CHRONOLOGICAL OVERVIEW OF THE SITE HISTORY

Prior to 1944 the subject site was primarily used for agricultural purposes and being situated near the Dominguez River flood plain was subject to periodic flooding. In the early 1940's the property was developed as part of a government subsidized rubber polymerization plant, which was bounded to the west by Normandie Avenue, to the east by Vermont Avenues, to the north by 190th Street, and to the south by Knox Avenue. During the operating period of the plant several different owners operated the plant (see section 4.3). In 1979, the current facility buildings were permitted and constructed.

3.0 REVIEW OF PRELIMINARY SITE ASSESSMENT BY CECC

Converse Environmental Consultants of California (CECC, former name of CEW) conducted a preliminary site assessment of the facility in a report dated December 29, 1989 (CECC Project No. 89-41-636-01). The conclusions of CECC's preliminary site assessment report indicated several areas of potential environmental impact which included the following:

3.1 Limited soil contamination related to two underground gasoline storage tanks, which was identified and remediated by excavation and appropriate disposal. An underground waste oil tank and an underground clarifier on-site have not been assessed.

3.2 Six transformers were observed on-site, which have not been tested for the presence of PCB's.

3.3 Asbestos-containing materials (ACM) were encountered in two subsurface soil samples (see Figure 5). The presence of ACM poses no imminent environmental hazard in the soil, unless it is disturbed by excavation or surface disturbance. If subsurface soils are to be disturbed in the future, it is recommended that the extent and amount of the subsurface ACM be determined, and remedial action conducted if warranted.

3.4 Detectable levels of organo-chlorinated pesticides (including DDT) were indicated in samples from soil borings (see Figure 5). The reported concentrations of DDT were below the background and action levels specified by the EPA.

3.5 Possible ground water contamination from off-site sources may be present in the subsurface, specifically from the following local sources:

3.5.1 Documented Underground Storage Tanks (see Figure 3)

3.5.2 NPL sites (see Figure 3)

3.5.3 Landfills (see Figure 4)

3.5.4 Other possible sources include up-gradient refineries and other petrochemical/chemical operations.

4.0 HISTORICAL RECORDS SEARCH

In addition to a review of previous work performed by CECC, the following sources were contacted, and records reviewed:

4.1 San Pedro Fire Department
Spoke with Ann Meleta, who said that the site used to be a Shell Chemical Plant, but that all records of the facility were destroyed in the early 1970's when the buildings were demolished.

4.2 San Pedro Department of Building and Safety
Spoke with Mr. Hon who helped locate all building permits pulled from all addresses in the vicinity of the subject site. Also spoke with Mr. Al Provos of the engineering department who verbally confirmed the existence of a Shell Chemical Plant, but could not supply any confirming permits.

4.3 The Los Angeles City Department of Building and Safety
Reviewed all applicable permit files on the 1948 District Map No. 7940, Tract No. 4671. The only address to appear in that tract was 19201 South Vermont Avenue (See Drawing 3). The following information was retrieved from permits on file:
1944: Property owner - Defense Plant Company/Goodyear Synthetic Rubber Company. Building permits were issued for construction of a rubber processing building, a pigment building, decanter tanks, water treatment plant, laboratory, burning stack, oil separators, refrigeration building, rubber fines storage building, and a transfer pump house.
1951: Property owner - Minnesota Mining Company. A building permit for an addition to the existing storage building was obtained.
1952: Property owner - Midland Rubber Company. A permit was issued for the storage of flammable liquids.
1955–1971: Property owner - Shell Oil Company. Permits were obtained for operating tanks, polymerization of latex building, storage tanks, recovery (latex) building, production (latex) building, separator building, monomer recovery building, laboratory building, styrene plant, storage building, carbon automatic feed system, synthetic rubber manufacturing building, loading pit, demolition of a cooling tower and a pump house.

1971: Property owner - Shell Chemical Company. A permit was issued for the addition of a control room and equipment support structures.
1973: Property owner - Cabot, Cabot & Forbes. Permits were obtained to demolish a cooling tower, pump house, a compressor building, a boiler building, a warehouse in lots 22 and 23.
1979: Property owner - Cadillac Fairview/Calif. Inc. A grading permit was issued along with permits to construct the present facilities, and certificates of occupancy.

4.4 UCLA Spence Collection
Aerial photographs of the area from 1940's through 1970's were reviewed to identify previous uses for the property, and to locate the subject site within the former boundaries of the rubber polymer plant, and to identify areas of surficial staining on the property (See Drawings 1 and 2).

4.5 Whittier College Fairchild Aerial Photography Collection
Photographs from this collection included aerial views of the site taken between the years of 1927 and 1957. Photographs from the 1920's and 1930's indicated that the property was vacant. Photographs taken in 1937 indicated that the subject site had been partially flooded by the Dominguez River (Flight No. C-4424, Nos. 2-13). Most of the photographs were taken at altitudes that were much higher than those of the Spence Collection. Because these photographs were taken at higher altitudes, additional details could not be identified in the photographs from 1947 to 1957.

4.6 Site Visit
A site visit was conducted to take photographs of present conditions at the subject site, and to update records.

4.7 Ongoing Investigations by CEW
CEW has been conducting an on-going Leak Detection/Tank Monitoring Program at this facility, and as part of this investigation CEW has identified the following conditions. During the excavation of trenches for installation of tank monitoring lines, standing water was encountered at approximately 1 - 2 feet below grade in the area of the underground storage tanks. The probable source of this water is a nearby buried clarifier. CEW personnel collected a water sample for laboratory analysis which showed excessive levels of contamination (the sample collected was not a ground water sample because it was not collected from a ground water monitoring well). CEW is continuing this investigation, with submittal of a proposal to Pacific Bell, for determination of the exact source of this water.

4.8 Summary of Agency Records Search
4.8.1 There are 27 permitted underground tanks in immediate vicinity of the subject site (see CECC Preliminary Site Assessment report dated December 29, 1990).

4.8.2 A Shell Oil Refinery and tank farm located approximately 1,000 feet east and south of the subject property.

4.8.3 A former Montrose Chemical Company facility was previously located approximately 3000 feet southwest of the subject property. This former chemical plant was used for the manufacture of dichlorodiphenyl-trichloroethane (DDT), and is on the National Priority List (CERCLA Superfund), as well as the state of California priority list for clean-up.

4.8.4 Another state of California priority site, the Del Amo site, is located approximately 3200 feet south of the subject property. This site was formerly contained a number of waste disposal ponds and sumps, used during the manufacture of synthetic rubber in the 1950's and 1960's. The ground water underlying this site has been found to contain VOC's, particularly benzene and toluene.

4.8.5 There are 18 known active and inactive landfills in the site vicinity including 6 class II landfills, and 2 class III landfills and 10 landfills of unknown hazard.

4.8.6 The California Regional Water Quality Control Board indicates the existence within a one-mile radius of the subject site, 11 leaking underground tanks.

5.0 POTENTIAL ON-SITE CONTAMINATION

5.1 Possible ground water and soil contamination from the former rubber polymerization plant may be present on-site specifically from the following sources:

5.1.1 Drum storage (see Figure 6 and Drawing 1)

5.1.2 Reactor vessels (see Figure 6 and Drawing 1)

5.1.3 Rubber laboratories (see Figure 6)

5.1.4 Loading of raw materials and finished products onto rail-cars (see Figure 6 and Drawing 1)

5.1.5 Processing and manufacturing areas (see Figure 6 and Drawing 1)

5.1.6 Gravel filled concrete pits and other unidentified sumps or low areas (see Figure 6 and Drawing 1)

5.1.7 Current on-site underground storage tanks, and clarifier may cause contamination in the future, although the extent will probably be limited due to the current installation of an tank monitoring program.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our combined investigations several areas of major environmental concern have been identified including:

- Extensive surficial staining was present on the polymer plant property indicating surface spillage, and probably some subsurface contamination.

- Chemical processing/manufacturing/chemical fracing areas which were not fully visible in the aerial photograph review to identify specific problems, but considering the housekeeping practices of chemical plants in the 1940's through 1970's in general, these areas are highly suspect.

- Three former underground concrete-lined storage pits referenced in the grading reports.

- Areas of excessive/abrupt changes in depth of backfill during grading operations for present facilities, indicating the probable presence of sumps or footings related to a manufacturing facility.

- Potential spillage from loading/unloading of raw and finished products in rail-cars.

- Because the permits for some of the buildings at the former rubber plant specified Styrene and Butadiene rubber manufacturing processes, CEW recommends that soil sample analyses in future phases of investigation include a gas chromatograph/mass spectrometer screening for some of the specific chemicals used in those processes.

All of these factors contribute to the environmental implications present at this site. Further site characterization needs to be conducted to assess these areas of concern. The further characterization should include borings to evaluate the subsurface conditions and the installation of ground water monitoring wells to test and evaluate ground water conditions.

REFERENCES

1) Morton, Maurice, Rubber Technology, Second Edition, 1973, Van Nostrand Reinhold Company.

2) California Department of Health Services, Health and Welfare Agency, Toxic Substance Control Division, 1989, Expenditure Plan for the Substance Cleanup Bond Act of 1984, Revision No.4.

3) California Department of Water Resources (CDWR), 1961, Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, Appendix A, Ground Water Geology, CDWR Bulletin No.104, 181p.

4) California Regional Water Quality Control Board, Los Angeles Region (4), Underground Storage Tank Leak List in Los Angeles County and Ventura County, 1989.

5) California State University Northridge, 1989, Sanborn Fire Insurance Maps.

6) City of Los Angeles, Department of Building and Safety, Counter E., Building and Safety Records.

7) City of Los Angeles, Department of Water and Power, Don Giddings, personal communication.

8) City of Los Angeles Fire Department, San Pedro District Offices, Inspectors Woodward and Franco, personal communication.

9) Converse Environmental Consultants of California (CECC), Preliminary Site Assessment, CECC Project No. 89-41-636-01, December 29, 1989.

10) Fairchild Aerial Photography Collection, Department of Geology, Whittier College, coverage dated August 1927 through March 23, 1957.

11) Flood Control Data Systems, Inc., 1988, Los Angeles County Hazardous Waste and Substance Site, 1st edition.

12) Los Angeles County, Department of County Engineering 1976, Index of Solid Waste and Liquid Industrial Waste Disposal Sites.

13) Los Angeles County, Department of Public Works, 1989, Tank Location List.

14) Los Angeles County, Project Planning and Pollution Control Division, 1973, Major Waste Systems, The County-wide General Plan.

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15) Los Angeles Flood Control District, 1986, Coastal Plain Deep Aquifer Ground Water Contour Map.

16) Spence Air-photo Collection, University of California, Los Angeles, Coverage dated 6-1-66 and 2-2-68.

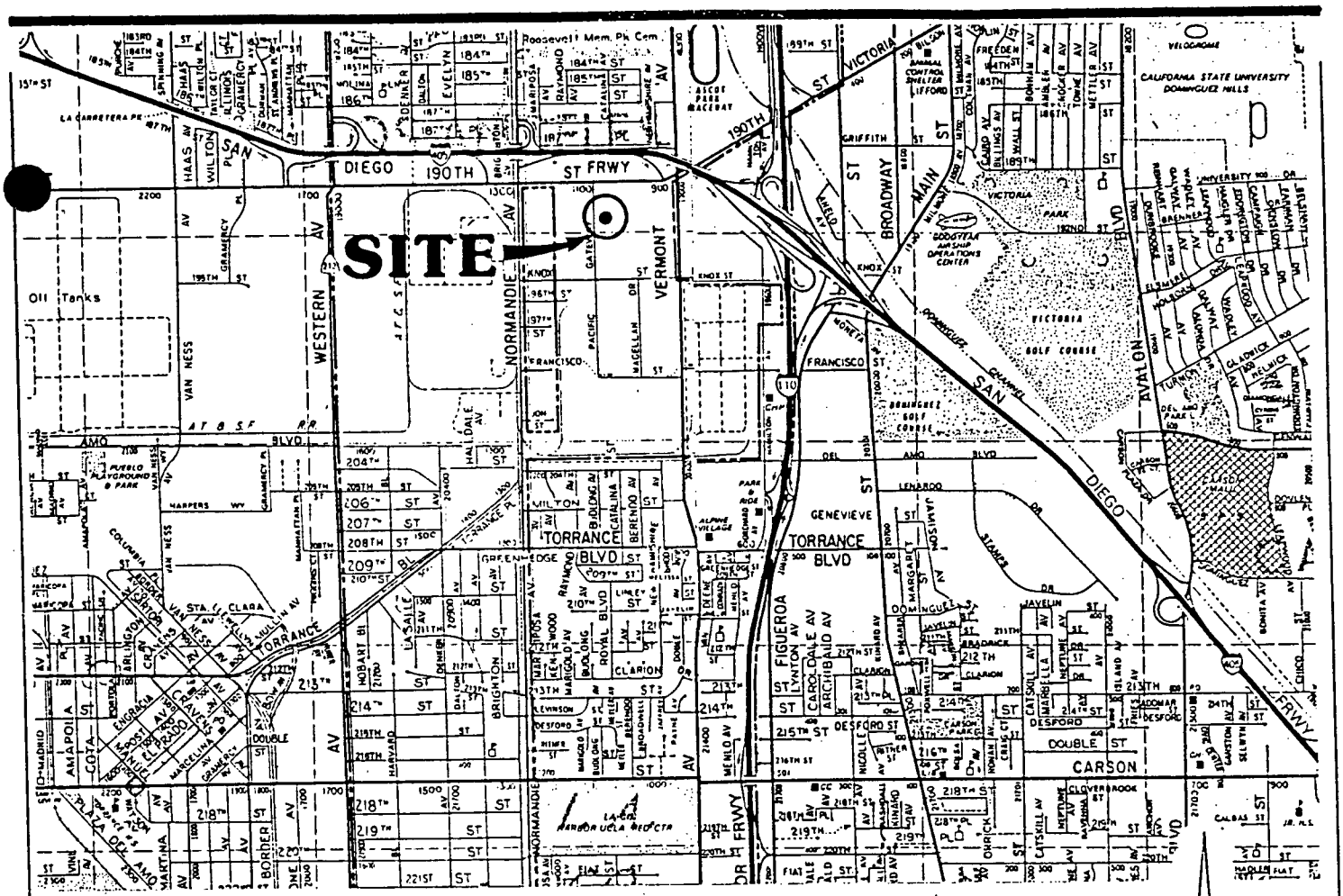
17) U.S. Environmental Protection Agency, Fact Sheet, 1988, Montrose Chemical Corporation Superfund Site, December 1988.

18) Williams, T.M., Harris, R., Symans, M., and VanErt, M., American Industrial Hygiene Association Journal, vol. 41, Pg. 204, 1980.

19) Yerkes, R.F., McCoulloh, T.H., Schoellhamer, J.E., and Vedder, J.G., 1965, Geology of the Los Angeles Basin -- An Introduction, U.S. Geological Survey Professional Paper 420-A, 57p.

FIGURES

FIGURES



REFERENCE:

Thomas Brothers Guide, Los Angeles County, 1989 edition, pages 68 and 69.

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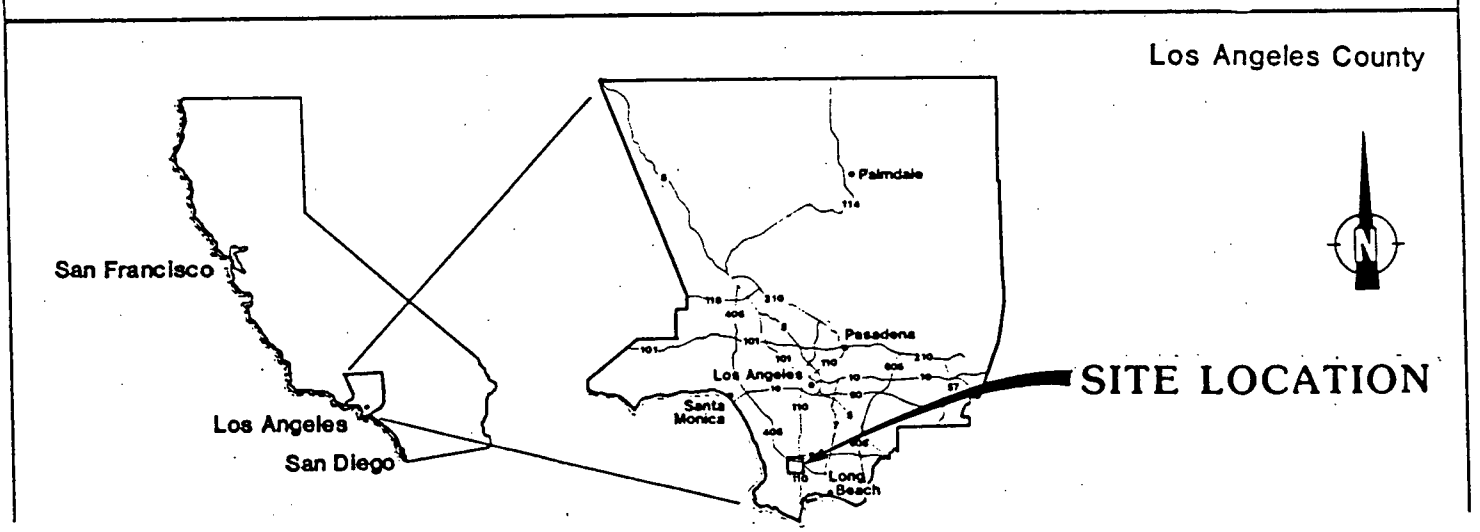


SITE LOCATION MAP

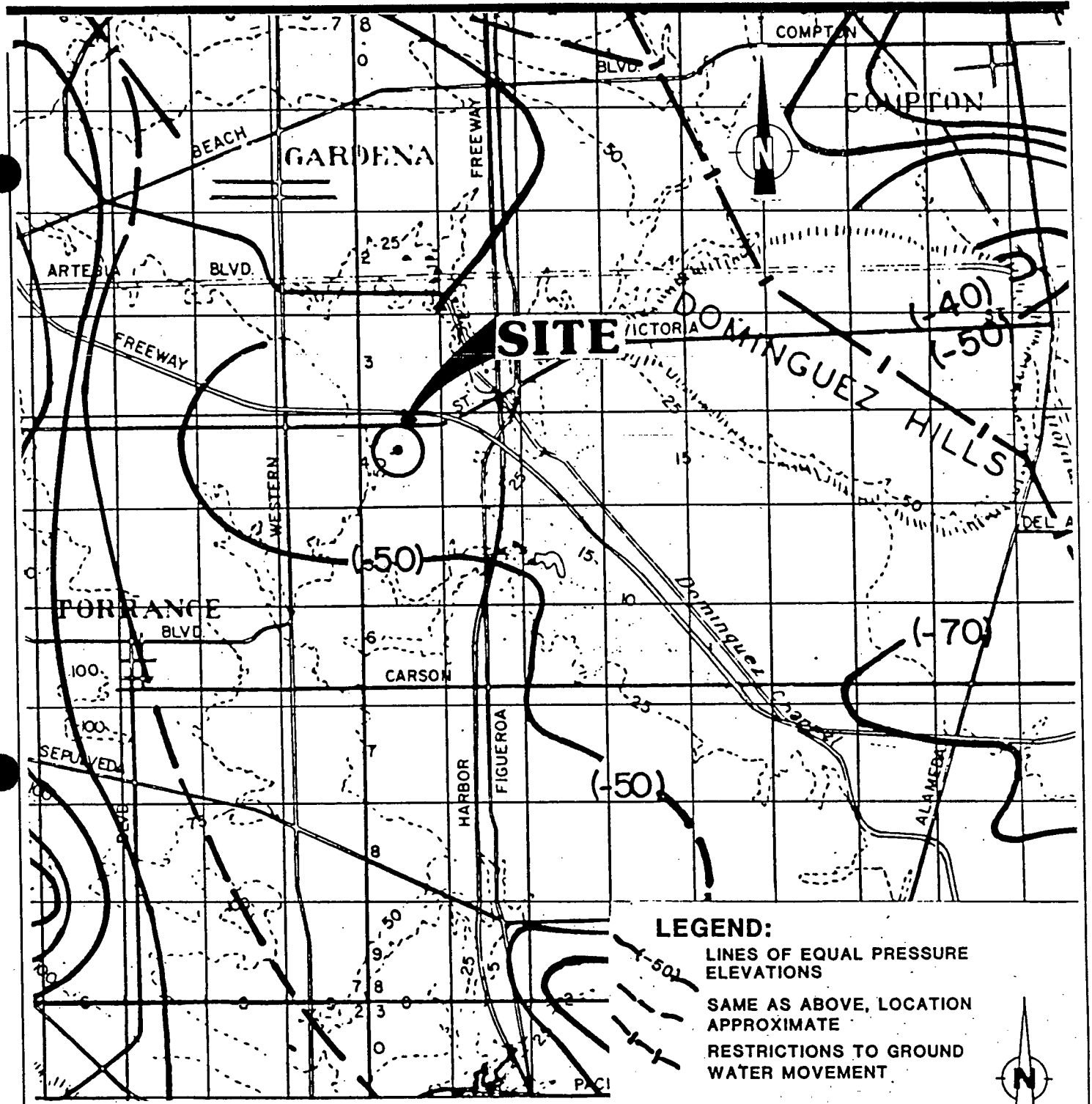
PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Project No.
90-41-416-01

Figure No.
1

CONVERSE ENVIRONMENTAL WEST

Approved for publication by



REFERENCE:

Los Angeles Flood Control District, Fall 1987, Coastal Plain, Ground Water Contours, Deep Aquifers

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SCALE IN MILES

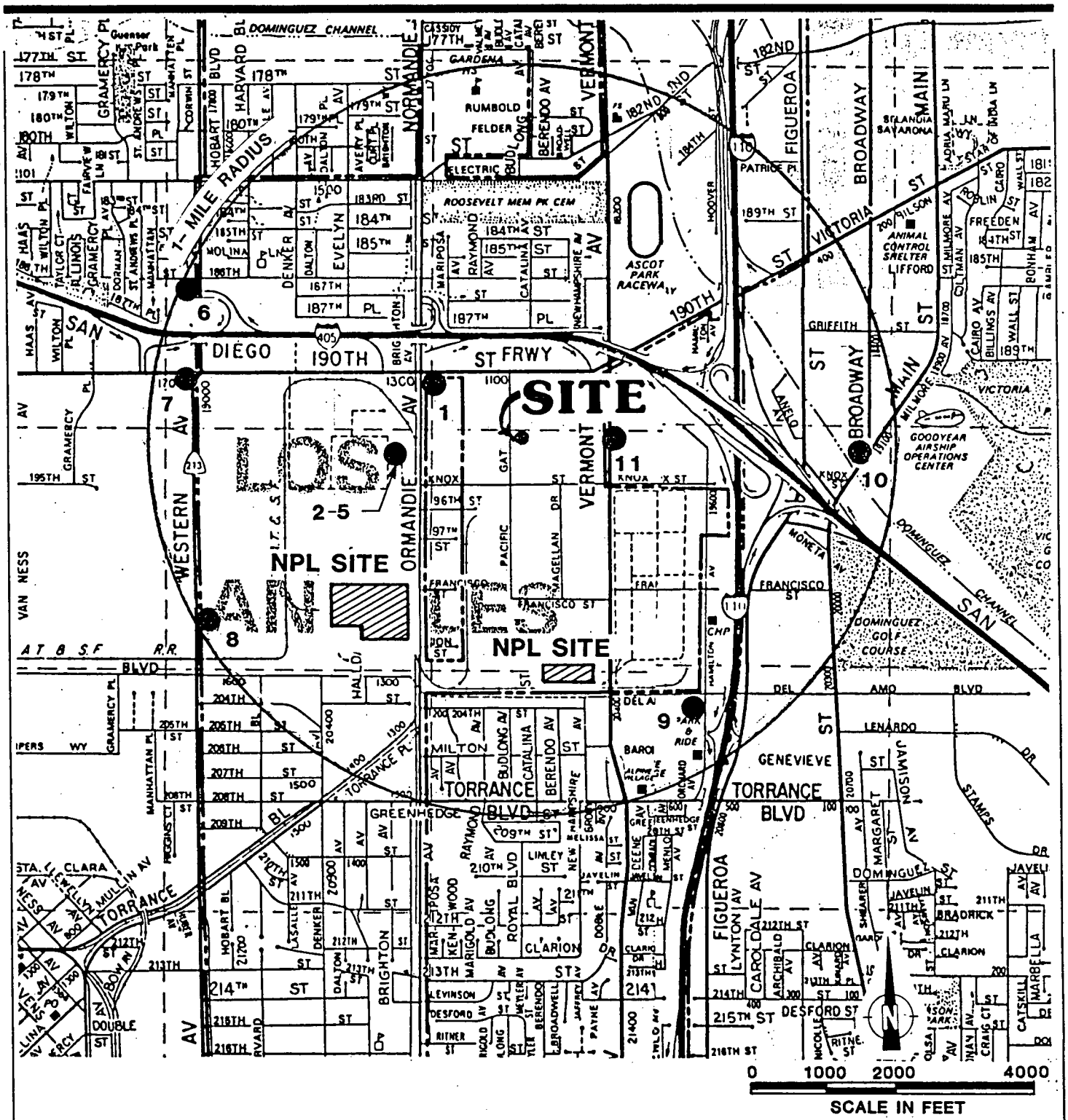
GROUND WATER CONTOUR MAP

PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Project No.
90-41-416-01

Figure No.
2

CONVERSE ENVIRONMENTAL WEST



REFERENCE:

Thomas Bros. Guide, 1989 edition,
Los Angeles County, pgs. 63,64 & 68,69

LEGEND:

1 ● APPROXIMATE LOCATION OF UNDERGROUND TANK LEAK (See Table 3)

LOCATIONS OF UNDERGROUND TANK LEAKS AND PROPOSED NPL SITES

PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Project No.
90-41-416-01

Figure No.
3

CONVERSE ENVIRONMENTAL WEST

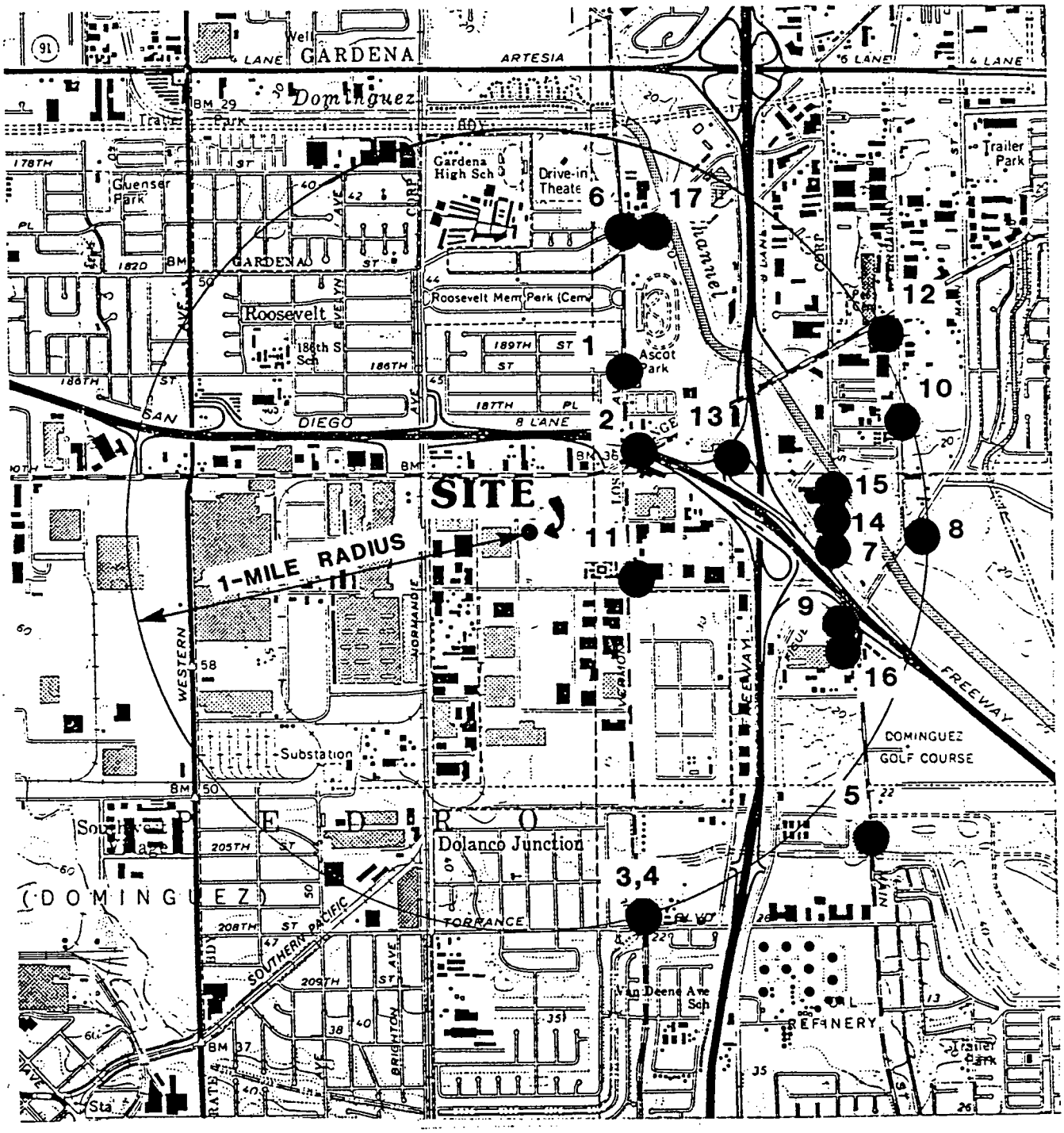
Approved for publication

TANK LEAK REFERENCE NUMBER	FACILITY NAME	ADDRESS	AFFECTED RESOURCE	STATUS	SUBSTANCE
1	Texaco Station	19008 Normandie Los Angeles	Undertermined	Investigation in Progress	Waste Oil
2	Douglas Aircraft	19503 Normandie Torrance	Ground Water	Investigation in Progress	Gasoline
3	Douglas Aircraft	19503 Normandie Torrance	Soil	Investigation in Progress	Gasoline
4	Douglas Aircraft	19503 Normandie Torrance	Soil	Investigation in Progress	Gasoline
5	Douglas Aircraft	19503 Normandie Torrance	Soil	Investigation in Progress	Gasoline
6	UnoCal Station	18605 Western Ave Torrance	Soil	Investigation in Progress	Gasoline
7	Toyota Motors	19001 Western Ave Torrance	Soil	No Action	Diesel
8	The Carson Estates Company	20225 Western Ave Torrance	Ground Water	Investigation in Progress	Misc motor vehicle fuel
9	Rollins Leasing Corporation	20425 Hamilton Carson	Ground Water	No Action	Inspecified Product
10	Carson City Towing Service	19135 Main Street Carson	Ground Water	Investigation in Progress	Unleaded Gasoline
11	Teledyne-Sprague Engineering	19300 Vermont Ave Los Angeles	N/A	Investigation in Progress	Unspecified Product
NPL SITE	Montrose Chemical Corporation	20201 Normandie Los Angeles	Ground Water and Soil	Investigation in Progress	DDT
NPL SITE	Del Amo Site	Del Amo Blvd (North Side) Between Normandie & Vermont	Ground Water and Soil	Investigation in Progress	VOC and PNA

References: 1) California Regional Water Quality Control Board, Los Angeles (Region 4), Underground Storage Tanks Leak List in Los Angeles County and Ventura County, 1989

2) Environmental Protection Agency, Fact Sheet, Montrose Chemical Corporation, Superfund Site, 1988

3) California Department of Health Services, Health and Welfare Agency, Toxic Substance Control Division, 1989, Expenditure Plan for the Substance Cleanup Bond Act of 1984, Revision No. 4



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1 ½ 0 1 MILE

CONTOUR INTERVAL 25 FEET

U.S.G.S. Topographic Map
Torrance, CA N3345-11815/7.5
1964 Photorevised 1981

8 Approximate Location of Landfill

LOCATIONS OF INACTIVE/ACTIVE LANDFILLS

PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Project No.
90-41-416-01

Figure No.
4

CONVERSE ENVIRONMENTAL WEST

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REGISTERED LANDFILLS WITHIN A 1 MILE RADIUS OF PACIFIC BELL 19310 PACIFIC GATEWAY DRIVE LOS ANGELES,CALIFORNIA

	STATUS	CLASS	PROJECT NO.	LOCATION
1	Inactive	II	388	So. Cal. Disposal, 186th Street at Vermont Avenue, Wilmington.
2	Inactive	II	391	East side of Vermont Avenue at 189th Street , Wilmington.
3	Inactive	II	396	Gardena Valley Dumps #1 & 2, Torrance Boulevard at Vermont Avenue, Carson.
4	Inactive	II	397	Gardena Valley Dump #4, Torrance Boulevard and Vermont Avenue, Carson.
	Inactive	II	399	Southwest Conservation, 20331 S. Main Street, Carson.
6	Inactive	II	402	American Disposal Co., 182nd Street at Vermont Avenue, Wilmington.
7	Inactive	III	401	Southwest Steal No. 1 Dump, 19100 S. Figueroa Street, Carson.
8	Inactive	Unknown	403	Broadway - Main Co., 19101 S. Main Street, Carson.
9	Inactive	Unknown	410	LA Co. Sanitation District No. 1, Landfill Area L1A, south of Dominguez Channel on Moneta Avenue, Carson.
10	Inactive	Unknown	414	Cottler, 18802 S. Broadway, Carson.
11	Inactive	Unknown	910	Vermont Avenue and knox Street Dump, NE corner of Vermont Avenue and Knox Street, Los Angeles.

REGISTERED LANDFILLS WITHIN A 1 MILE RADIUS OF PACIFIC BELL 19310 PACIFIC GATEWAY DRIVE LOS ANGELES,CALIFORNIA

	STATUS	CLASS	PROJECT NO.	LOCATION
12	Inactive	Unknown	916	Katz Dump, SW corner of Broadway at Victoria Sreet, Carson.
13	Inactive	Unknown	918	Hamilton Street Dump, NW corner of the San Diego - Harbor Freeway intersection, south of 190th Street, Los Angeles.
14	Inactive	Unknown	919	Martin Hallerner, S. Figueroa Street at the Dominguez Channel (opposite 19005 S. Figueroa Street), Carson.
15	Inactive	Unknown	923	Brown Dump, 19001 S. Figueroa Street, Carson.
16	Active	III	128	Shell Chemical, 19500 S. Moneta Street, Carson.
17	Active	Unknown	301	South side of Dominguez Channel, Vicinity of 182nd Street and Harbor Freeway, Los Angeles.

TABLES

TABLE 1

PERMITTED UNDERGROUND STORAGE TANKS IN THE IMMEDIATE VICINITY OF PACIFIC BELL 19310 PACIFIC GATEWAY DRIVE LOS ANGELES, CALIFORNIA

Armor Plating Co.
19524 S. Normandie Ave.
1 Permit

Redman Equipment Co.
19800 S. Normandie Ave
3 Permits

Amelco Electricity
19208 S. Vermont Ave.
1 Permit

Jay Steinbeck
1227 Knox St.
1 Permit

Data Components
19120 S. Vermont Ave.
1 Permit

Teledyne Sprague
19300 S. Vermont Ave.
3 Permits

Perma-bilt Steel Products
19106 S. Normandie Ave.
1 Permit

Guardian Industries
20008 S. Normandie Ave.
1 Permit

Teledyne - Crittendyne
711 Knox Ave.
1 Permit

Crestline Mills Carpet Co
1200 W. Francis Street
2 Permits

Trico Industrial
19706 S. Normandie Ave
2 Permits

Texaco Refining & Marketing
19008 S. Normandie Ave
3 Permits

Jay Steinbeck
19500 S. Normandie Ave
1 Permit

H.H. Osterloh
19514 S. Normandie Ave.
1 Permit

Klingler Co.
19122 S. Vermont Ave.
1 Permit

Green's Ready Mix
19030 S. Normandie Ave
1 Permit

Quadtrad Corp.
19900 S. Normandie Ave.
1 Permit

Renault West Inc.
702 W. 190th Street
1 Permit

Amoco Chemicals Co.
12225 W. 196th Street
1 Permit

TABLE 2

REGISTERED LANDFILLS WITHIN A 1 MILE RADIUS OF PACIFIC BELL 19310 PACIFIC GATEWAY DRIVE LOS ANGELES, CALIFORNIA

STATUS	CLASS	PROJECT NO.	LOCATION
Inactive	II	388	So. Cal. Disposal, 186th Street at Vermont Avenue, Wilmington.
Inactive	II	391	East side of Vermont Avenue at 189th Street , Wilmington.
Inactive	II	396	Gardena Valley Dumps #1 & 2, Torrance Boulevard at Vermont Avenue, Carson.
Inactive	II	397	Gardena Valley Dump #4, Torrance Boulevard and Vermont Avenue, Carson.
Inactive	II	399	Southwest Conservation, 20331 S. Main Street, Carson.
Inactive	II	402	American Disposal Co., 182nd Street at Vermont Avenue, Wilmington.
Inactive	III	401	Southwest Steal No. 1 Dump, 19100 S. Figueroa Street, Carson.
Inactive	Unknown	403	Broadway - Main Co., 19101 S. Main Street, Carson.
Inactive	Unknown	410	LA Co. Sanitation District No. 1, Landfill Area L1A, south of Dominguez Channel on Moneta Avenue, Carson.
Inactive	Unknown	414	Cottler, 18802 S. Broadway, Carson.
Inactive	Unknown	910	Vermont Avenue and knox Street Dump, NE corner of Vermont Avenue and Knox Street, Los Angeles.
Inactive	Unknown	916	Katz Dump, SW corner of Broadway at Victoria Street, Carson.

TABLE 2 (Continued)

REGISTERED LANDFILLS WITHIN A 1 MILE RADIUS OF PACIFIC BELL 19310 PACIFIC GATEWAY DRIVE LOS ANGELES,CALIFORNIA

STATUS	CLASS	PROJECT NO.	LOCATION
Inactive	Unknown	918	Hamilton Street Dump, NW corner of the San Diego - Harbor Freeway intersection, south of 190th Street, Los Angeles.
Inactive	Unknown	919	Martin Hallerner, S. Figueroa Street at the Dominguez Channel (opposite 19005 S. Figueroa Street),Carson.
Inactive	Unknown	923	Brown Dump, 19001 S. Figueroa Street, Carson.
Active	III	128	Shell Chemical, 19500 S. Moneta Street, Carson.
Active	Unknown	301	South side of Dominguez Channel, Vicinity of 182nd Street and Harbor Freeway, Los Angeles.

APPENDIX A

PRELIMINARY SITE ASSESSMENT

CONVERSE ENVIRONMENTAL WEST

3393 East Foothill Boulevard, Suite B
Pasadena, California 91107-3112

Telephone (818) 796-8200
FAX (818) 351-1060

REPORT

PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT

19310 PACIFIC GATEWAY DRIVE
LOS ANGELES, CALIFORNIA

PREPARED FOR:

Pacific Bell
177 E. Colorado Boulevard
Pasadena, California

CEW Project Number 89-41-636-01
December 21, 1989

A Wholly Owned Subsidiary of
The Converse Professional Group

CONVERSE ENVIRONMENTAL WEST

3393 East Foothill Boulevard, Suite B
Pasadena, California 91107-3112

Telephone (818) 796-8200
FAX (818) 351-1060

REPORT

PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT

PACIFIC BELL (A5-615)
19310 PACIFIC GATEWAY DRIVE
LOS ANGELES, CALIFORNIA

PREPARED FOR

Pacific Bell
177 E. Colorado Boulevard
Pasadena, California

CEW Project No. 89-41-636-01

December 28, 1989

A Wholly Owned Subsidiary of
The Converse Professional Group

CONVERSE ENVIRONMENTAL WEST

3393 East Foothill Boulevard, Suite B
Pasadena, California 91107-3112

Telephone (818) 796-8200
FAX (818) 351-1060

December 28, 1989

Mr. Zolton Kucharik
Pacific Bell
177 E. Colorado Blvd., Rm 920
Pasadena, California

Subject: **PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT**
19310 Pacific Gateway Drive
Los Angeles, California
CEW Project No. 89-41-636-01

Dear Mr. Kucharik:

This letter transmits results of the preliminary environmental site assessment conducted at the Pacific Bell facility located at 19310 Pacific Gateway Drive in Los Angeles, California.

Converse Environmental West (CEW) completed the preliminary site assessment which included subsurface drilling, sampling, and laboratory testing to determine the presence or absence of soil contamination at the site and identify areas of potential environmental concern on or near the site. The scope of work included site history review, site and vicinity inspection, review of available agency records, analysis and evaluation of analytical test results, and preparation of this report.

Converse Environmental West appreciates the opportunity to be of continued service. Please call the undersigned if you have any questions regarding this report.

Sincerely,

CONVERSE ENVIRONMENTAL WEST

John A. Campbell
Vice President

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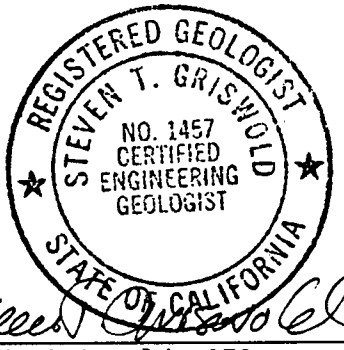
2	Registered Landfills Within a 1 Mile Radius of Pacific Bell 19310 Pacific Gateway Drive
3	Underground Tank Leak Locations and NPL Sites

PROFESSIONAL CERTIFICATION



Steven T. Griswold, CEG
Project Engineering Geologist

This report has been prepared by Converse Environmental West under the professional supervision of the person whose seal and signature appear hereon.

This report has been prepared for the exclusive use of Pacific Bell as it pertains to the property located at 19310 Pacific Gateway Drive, Los Angeles, California. Our services have been performed in accordance with applicable County ordinances and generally accepted practices in geosciences. No other warranty, either express or implied, is made.

Converse Environmental West (CEW) is not responsible or liable for any claims or damages associated with interpretation of available information. This report should not be regarded as a guarantee that no further contamination, beyond that which was detected in our investigation, is present beneath the property. In the event that any changes in the nature of the property occur or additional, relevant information about the property is brought to our attention, the conclusions and recommendations contained in this report may not be valid unless these changes and additional relevant information are reviewed and conclusions of this report are modified or verified in writing.

1.0 INTRODUCTION

This report presents the findings of the preliminary environmental site assessment (PSA) for the property located at 19310 Pacific Gateway Drive, Los Angeles, California (Figure 1). Assessment work was conducted to identify and evaluate areas of potential environmental concern on or near the subject property. The scope of our investigation includes the following:

- Site History Review: Available records, documents and aerial photographs were reviewed to establish a site-use history for the property.

- Site and Vicinity Inspection: Field reconnaissance of the property was conducted for evidence of contamination, potential sources of contamination and the presence of regulated hazardous substances. The vicinity of the site was visually inspected to assess the potential for impact to the property from off-site sources.

- Regulatory Agency Records Review: Available regulatory agency records and published lists were inspected to ascertain whether violations or environmental impairments known to the agencies exist at the site or vicinity.

- Subsurface Exploration and Analytical Testing: Nine borings were drilled, logged, and sampled at the site to investigate the possible presence of soil contamination below existing pavement.

2.0 SITE DESCRIPTION

The Pacific Bell property is located in Los Angeles, California, near the intersection of Pacific Gateway Drive and 190th Street, approximately 0.25 mile south of the San Diego Freeway (Figure 1). Surface elevation at the site is approximately 39 feet above sea level. Local terrain is relatively flat and slopes to the east at a grade of approximately 0.002 feet per foot.

Structures present at the subject site include a vehicle maintenance building, an office building, a parking area, two 10,000-gallon underground unleaded fuel storage tanks (installed in 1980), and one 550-gallon underground waste oil tank (installed in 1980). Location of the buildings and underground tanks are shown on Figure 2.

3.0 GEOLOGY

The property lies within the southwestern structural block of the Los Angeles Basin as identified by Yerkes et. al. (1965), approximately 1.25 miles south of the Dominguez Hills on the Torrance Plain (California Department of Water Resources, CDWR, 1961). The Dominguez Hills are a series of low-lying, northwest-trending anticlinal domes bounded on the east by the Newport-Inglewood fault zone.

The area is underlain by Holocene age (less than 10,000 years old) alluvium and a thick section of unconsolidated marine and continental deposits of Pleistocene age (approximately 10,000 to 1.6 million years old). The Pleistocene deposits consist of varying amounts of gravel, sand, silt, and clay, with discontinuous permeable zones. These units are subdivided into the Lakewood formation, which occurs near the surface and is approximately 190 feet thick in the site vicinity, and the deeper San Pedro formation. Collectively, the Lakewood and San Pedro formations constitute the primary water-bearing sediments in the area (CDWR, 1961).

4.0 HYDROGEOLOGY

The site lies within the West Coast Ground Water Basin (CDWR, 1961), bounded on the northeast by the Newport-Inglewood fault zone. The fault zone is approximately 5.5 miles northeast of the site and acts as a barrier to ground water movement. In the property area, the Lakewood formation contains an upper member of relatively impermeable materials known as the Bellflower Aquitard. This unit is approximately 120 feet thick at this locality and consists largely of interlayered silts and clays. The unit also contains lenses of sandy clays capable of forming discontinuous perched saturated zones.

Ground water maps compiled by the Los Angeles County Flood Control District (LACFCD, 1987) indicate ground water is present at a depth of approximately 90 feet below grade in the site vicinity (Figure 3). Ground water was not encountered in borings drilled to a depth of 40 feet below grade on August 8, 1988 (CEW Project No. 87-41-192-01).

5.0 SITE HISTORY

To establish a use history for the property, available records from the following sources were reviewed:

- City of Los Angeles Department of Building and Safety. The Department of Building and Safety holds building permits and other pertinent records.

- County of Los Angeles, Department of Public Works (LADPW). The LADPW issues permits for installation and removal of underground tanks for the County of Los Angeles.

- City of Los Angeles Fire Department (LAFD). The LAFD issues permits for installation and removal of underground tanks for the City of Los Angeles.

- The Spence Aerial Photograph collection at the University of California, Los Angeles (U.C.L.A.).

- The Sanborn Fire Insurance maps at California Sate University Northridge.

A review of records at the City of Los Angeles Department of Building and Safety indicate that the present structures are the only buildings for which permits have been issued for the referenced property. Both structures on the site have applications for certificate of occupancy dated November 1, 1978. Compaction reports available from the Department of Building and Safety were examined for the nature of artificial fill compacted at the site. The records do not indicate the lateral extent of fill, the composition of the gravel component of fill, the source of imported component of fill, or a site plan showing depth of fill. However, records make reference to the placement of fill in subsurface vault areas and fill depths of up to 20 feet at the site (Appendix C).

A review of City of Los Angeles Fire Department records indicate that underground tanks presently onsite are the only tanks that have been permitted to operate on the subject property.

Pacific Bell, to maintain compliance with state and federal underground tank regulations, contracted Converse Environmental West (CEW) to install overfill protection devices on the two unleaded gasoline underground storage tanks referenced above. CEW began installation of overfill protection devices on the fill risers of the two storage tanks on March 21, 1989 (CEW Project No. 87-41-192-01). During installation of the overfill protection devices, visual inspection of subsurface soils identified hydrocarbon contamination around the fill risers.

Subsequent subsurface investigations (soil sampling by hand augering) indicated that the hydrocarbon contamination appeared to be restricted to the fill riser locations (CEW Project No 89-41-192-02). The removal and disposal of soils immediately around the fill risers and the installation of overfill protection boxes has minimized the potential for spillage or further migration of contamination within the impacted area.

A review of the Sanborn Fire Insurance maps provided no information as the area of coverage for the maps did not include the subject property.

A review of aerial photographs of the site vicinity from 1923 through 1975 only provide limited coverage of the subject property. The aerial photographic coverage was either a partial image on the edge of a photograph or at a scale not appropriate to site specific interpretation. Therefore, conclusive information on the site history based on aerial photographs is not available. It appears, however, that petroleum refining operations occupied land immediately adjacent to the east end of the subject site in photos from 1968, with associated overhead piping possibly traversing the site.

6.0 SITE INSPECTION

Converse Environmental West (CEW) personnel inspected the property on November 29, 1989 to assess general site conditions and identify areas of potential environmental concern. The inspection consisted of a walk-through and visual inspection of the subject property.

The property is rectangular in shape measuring approximately 756 feet by 397 feet and contains one two-story concrete office building and one steel-framed, masonry block construction vehicle maintenance/storage building. Both buildings are surrounded by vehicle parking for Pacific Bell employees.

The property has numerous exterior material storage areas including two portable enclosed storage containers and a concrete pad for material storage at the northwest and northeast corners of the vehicle maintenance/storage building, respectively. The east boundary of the property is almost entirely occupied by various uncovered storage areas, some separated by block walls.

The two portable storage containers are used for parts storage for fleet vehicles, welding materials, and portable equipment such as generators and hydraulic compressors. The uncovered storage pad at the northeast corner of the vehicle maintenance/storage building contains generators, hydraulic energy units, and electrical equipment. The uncovered storage area on the east boundary of the property, is used for storing telephone wire and equipment. In addition, there was one fenced-in, metal roofed structure located at the south end of the uncovered storage area that has a placard labeled "Danger, Hazardous Materials". The fenced-in area contains equipment for installing telephone lines and partially full and empty cable spools. No materials considered to be hazardous were evident in the fenced-in area during the site visit.

The walled-off storage areas contain metal nitrogen bottles, gravel, and empty cable spools. The remainder of the surface storage area appears to contain large cable spools with varying amounts of cable. There are a few empty 55-gallon steel drums labeled as previously containing motor oil and transmission fluid located beside the portable storage containers. In addition, a number of full or partially full 55-gallons steel drums containing motor oil and transmission fluid are located in a concrete-floored drum storage room in the vehicle maintenance building. Minor spillage of these stored petroleum products onto the concrete floor was absorbed with vermiculite.

As noted above, there are three underground storage tanks on the property; two 10,000-gallon unleaded gasoline tanks and one 550-gallon waste oil storage tank. There is also an underground clarifier of unspecified capacity located east of the gasoline dispenser pump island.

The property, where not covered with buildings, is covered with either concrete or asphalt paving. There are areas of minor oil-type staining located at various locations around the property; however, the staining is not considered to be an environmental hazard and is consistent with the use and maintenance of fleet vehicles.

A total of 6 transformers were observed on the subject property. There is one Los Angeles Department of Water and Power transformer (LADWP, personal communication, 1989), installed in 1979, which has not been tested for the presence polychlorinated biphenyls (PCB's). Three downstream distribution transformers were observed in the terminal/electrical room on the first floor of the office building on the west side of the property. Two additional downstream distribution transformers were observed in the garage section of the vehicle maintenance/storage building.

No suspected asbestos-containing materials were observed in buildings during the site inspection. However, a PSA is not a comprehensive asbestos survey and the presence or absence of asbestos-containing material (ACM) in buildings on the subject property has not been conclusively resolved.

7.0 REGULATORY AGENCY RECORDS

According to records held by the County of Los Angeles, Department of Public Works and the City of Los Angeles Fire Department, there are 27 permitted underground tanks in immediate vicinity of the subject property (Table 1).

Additional research at the Los Angeles Fire Department, San Pedro District Office (Inspectors Woodward and Franco, personal communication, 1989), revealed that the Shell Oil Company demolished a refinery and tank farm located approximately 1,000 feet east of the subject property. The Shell refinery was located south of 190th Street and east of Vermont Avenue and was demolished in 1981. It is believed that this demolished Shell refinery is the facility interpreted to be the petroleum refinery in the 1968 aerial photograph.

Review of the California Bond Expenditure Plan (1984) indicates that there is a National Priority List (CERCLA Superfund) site approximately 3,000 feet southwest of the subject property. This NPL site, the former Montrose Chemical Corporation plant, is listed as both a national and state of California priority site for clean-up. In addition, another state of California priority site, the Del Amo Site, is approximately 3200 feet south of the subject property.

The Montrose Chemical Corporation operated the 13 acre dichlorodiphenyl-trichloroethane (DDT) manufacturing plant from 1947 to 1982 and subsequently dismantled the plant in 1985. Sampling results indicate that onsite soils contain 300 to 400 tons of DDT throughout the former facility. Other substances of concern that were also detected in the investigation include monochlorobenzene (MCB), dichlorobenzene (and isomers), chloroform, acetone, benzene hexachloride (BHC and isomers), and benzene. Prior to asphalt capping, DDT-contaminated dust was transported into the nearby residences. Ground water and soils beneath the site are contaminated and may be a threat to usable aquifers. The EPA is currently conducting a remedial investigation/feasibility study (RI/FS) which is scheduled to be completed in January 1990.

The Del Amo Site consists of a number of waste disposal ponds and sumps used during the manufacture of synthetic rubber in the 1950's and 1960's. The disposal areas have subsequently been covered with soil. High levels of polynuclear aromatic hydrocyarbons (PNA's) and volatile organic compounds (VOC's) exist in subsurface soils. Ground water underlying the site has been found to be contaminated with VOC's, primarily benzene and toluene. Site cleanup is scheduled to begin in 1993.

A review of known landfills (Major Waste Systems, 1973) within a one-mile radius of the subject property indicate that there are 18 known active and inactive landfills in the site vicinity (Table 2) as summarized on the following page:

CLASS	ACTIVE	INACTIVE
I	0	0
II	0	6
III	1	1
UNKNOWN	1	9

A review of records for leaking underground tanks (California Regional Water Quality Control Board, 1989) within a one mile radius of the subject property indicates 11 leaking underground tanks at 8 different facilities. The location of these 11 underground tank leaks and the NPL sites are shown in Figure 4. Table 3 lists the underground tank leak locations and NPL sites shown in Figure 4 along with facility name, address, affected resource, status, and substance released.

Although no documentation pertaining to ground water contamination was found during the records review, the site is in close proximity to the above referenced Shell Oil Company refinery, the NPL sites, the underground tank releases, and the landfills. However, groundwater beneath the subject property has not been evaluated for this assessment.

8.0 EXPLORATORY SOIL BORINGS

8.1 Drilling and Sampling

On December 13 and 14, 1989, 9 borings, BH-1 through BH-9, were drilled by hand-auger method. The locations of the borings are shown on Figure 2 and were chosen to intercept potential DDT and hydrocarbon contamination in near-surface soils at selected points throughout the parking areas. Borings were advanced to depths ranging from 3 to 7 feet and were logged by a geologist under the direct supervision of a California-registered geologist. Boring logs are presented in Appendix A.

While hand-augering borings BH-7 and BH-8, suspected asbestos-containing material (ACM) was encountered at depths of approximately 2 feet in both borings and samples were collected for later analysis. The suspected ACM appeared to be discarded and buried fragments of a large diameter pipe or vessel and both measured about 6 inches by 6 inches.

Soils were collected from the depths specified on the boring logs and were placed into laboratory-prepared glass jars. Sample jars were then sealed with Teflon coated lids and refrigerated for transport. Soil sampling equipment was cleaned with trisodium phosphate prior to sampling, between sample intervals, and between drill sites to minimize the possibility of cross-contamination. Samples were handled and transported according to EPA protocol, including chain-of-custody procedures. Chain-of-custody documents are presented in Appendix B.

8.2 Laboratory Methods

As shown on the boring logs in Appendix A, two discrete soil samples were collected from each boring, one from near the ground surface and one from the bottom of each boring. For each boring, the two discrete samples were composited into a single sample for analysis. The composite samples were analyzed for organochlorine pesticides and PCB's using electron capture detection (GC-ECD) in accordance with EPA method 8080, and for volatile organic compounds (VOC) using gas chromatography/mass spectroscopy (GS/MS) in accordance with EPA method 8240. Results are reported in milligrams per kilogram (mg/kg) for method 8080 and method 8240.

Both samples of suspected asbestos-containing material collected from borings BH-8 and BH-9 were split and submitted to two California-state certified laboratories. To determine the mineralogic composition of the suspected ACM, a small amount of material is immersed in a solution and mounted on a glass slide for visual examination under a petrographic microscope.

8.3 Analytical Results

Detectable levels of organochlorine pesticides (DDT and degradation products DDE and DDD) were reported for samples obtained from soil borings as outlined in the table below. The background levels of DDT for the Montrose site were determined to be 2 ppm from samples taken over 3 miles upwind from the site (USEPA, 1988). Refer to copies of analytical laboratory reports provided in Appendix B.

Concentrations of Organochlorine Pesticides Detected in Soil Borings

Contaminant	Borings								
	BH-1	BH-2	BH-3	BH-4	BH-5	BH-6	BH-7	BH-8	BH-9
p,p'-DDD	.006	.025	.012	ND	.039	ND	.033	ND	ND
p,p'-DDE	ND	ND	.012	ND	.058	ND	.051	.005	ND
p,p'-DDT	.012	.063	.065	ND	.021	ND	.013	.017	ND

Detection limit = .005 mg/kg
ND = Not Detected

Results of laboratory analysis of the suspected ACM from borings BH-7 and BH-8 indicate that the samples contain a minimum of 40 percent asbestos minerals, primarily chrysotile and crocidolite. Analytical test results are presented in Appendix B.

9.0 CONCLUSIONS

Several areas of potential environmental impact were identified in this preliminary site assessment. These include the following:

- **Underground Storage Tanks**
  Two underground gasoline storage tanks, one underground waste oil tank, and one underground clarifier are present at the site. Assessment of the underground gasoline tanks has been conducted by CEW (Project No. 87-41-192-02). No assessment of the waste oil tank or clarifier area has been conducted as of this date.

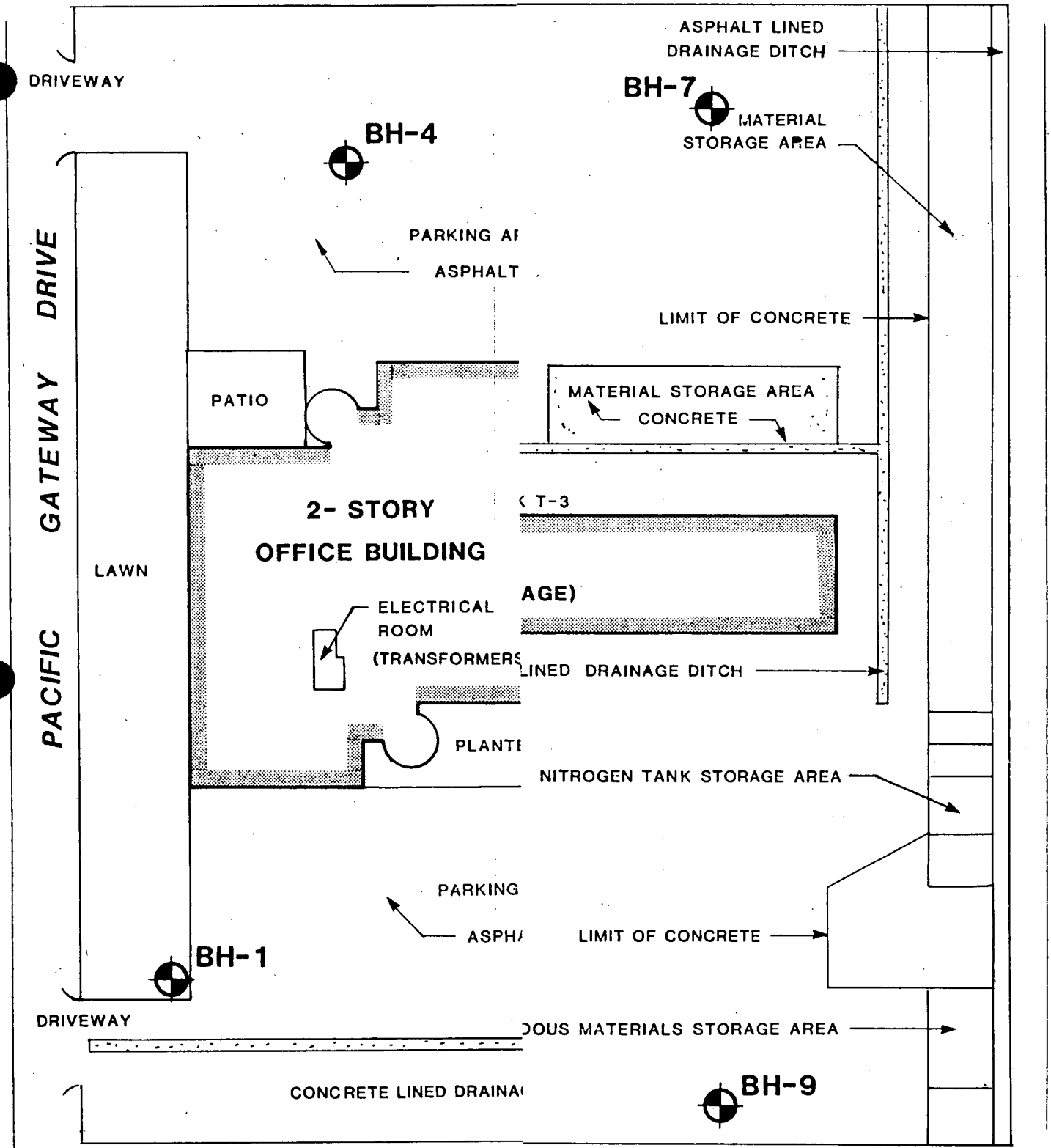
- **Transformers**
  Six transformers were observed onsite. Records either do not exist or indicate testing for the presence of PCB's has not been performed.

- **ACM in Subsurface Soils**
  Two samples of asbestos-containing material were recovered from subsurface soils. Asbestos is regulated as a hazardous waste. Excavation or removal of asbestos contaminated soils requires special handling and disposal procedures. If, however, the onsite soils are left undisturbed, there is no imminent environmental hazard that would require special attention. It is recommended that should future plans include disturbing existing subsurface soils that the extent and amount of subsurface asbestos-containing materials be determined.

- **DDT and Related Compounds in Subsurface Soils**
  Detectable levels of organochlorine pesticides were reported for samples obtained from soil borings. The reported concentrations of DDT are below the background level in the area as reported by the EPA.

- **Possible Ground Water Contamination**
  Contamination from offsite sources may have impacted ground water underlying the site. Although no documentation pertaining to ground water contamination was found during the records review and no ground water monitoring wells were installed as part of this assessment, the site is in the proximity of refineries, NPL sites, documented underground tank leaks, and landfills.

FIGURES



E ASSESSMENT

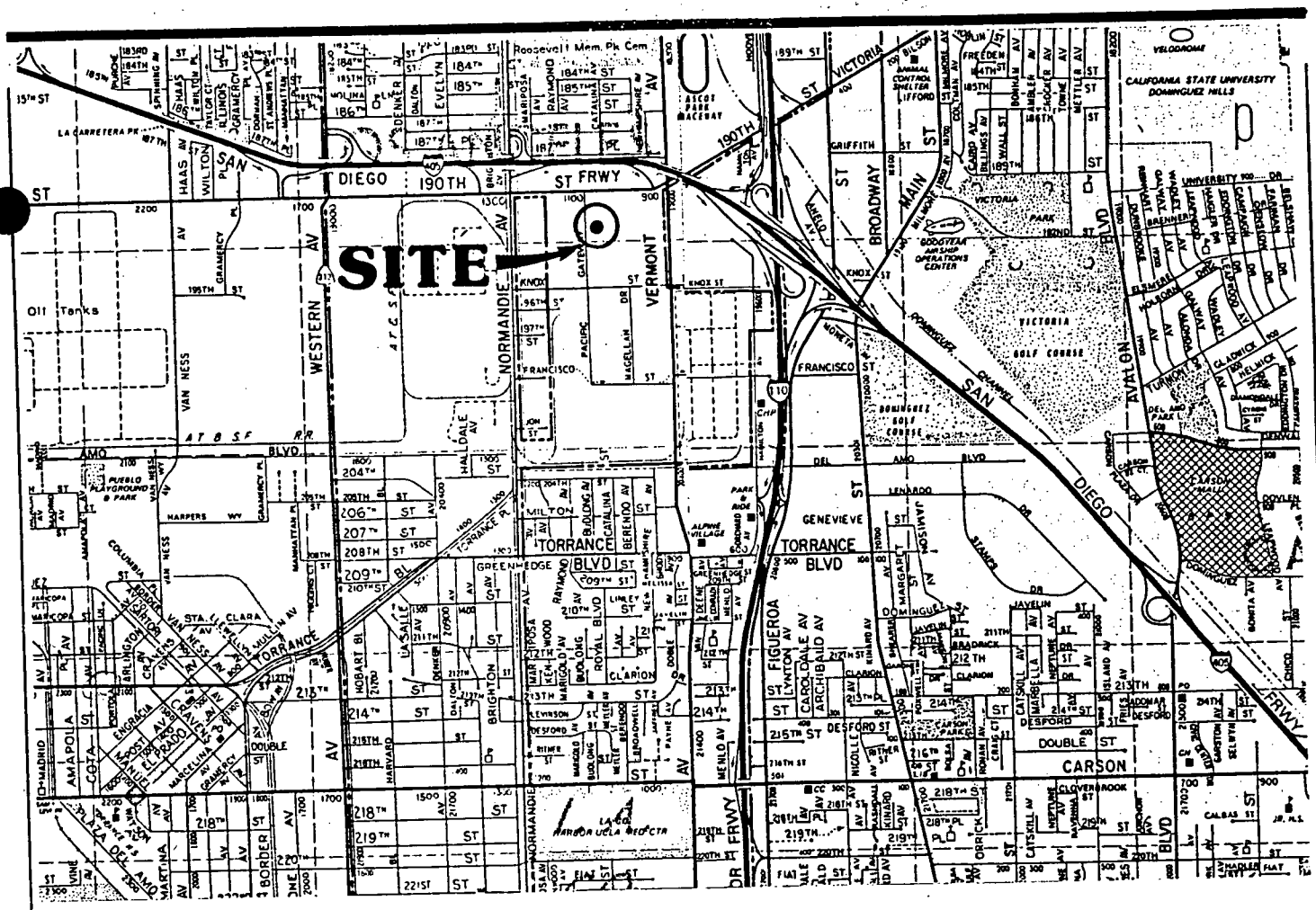
50 0 5

SCALE IN FEET

BH-8 APPROXIMATE
OF TEST BORI

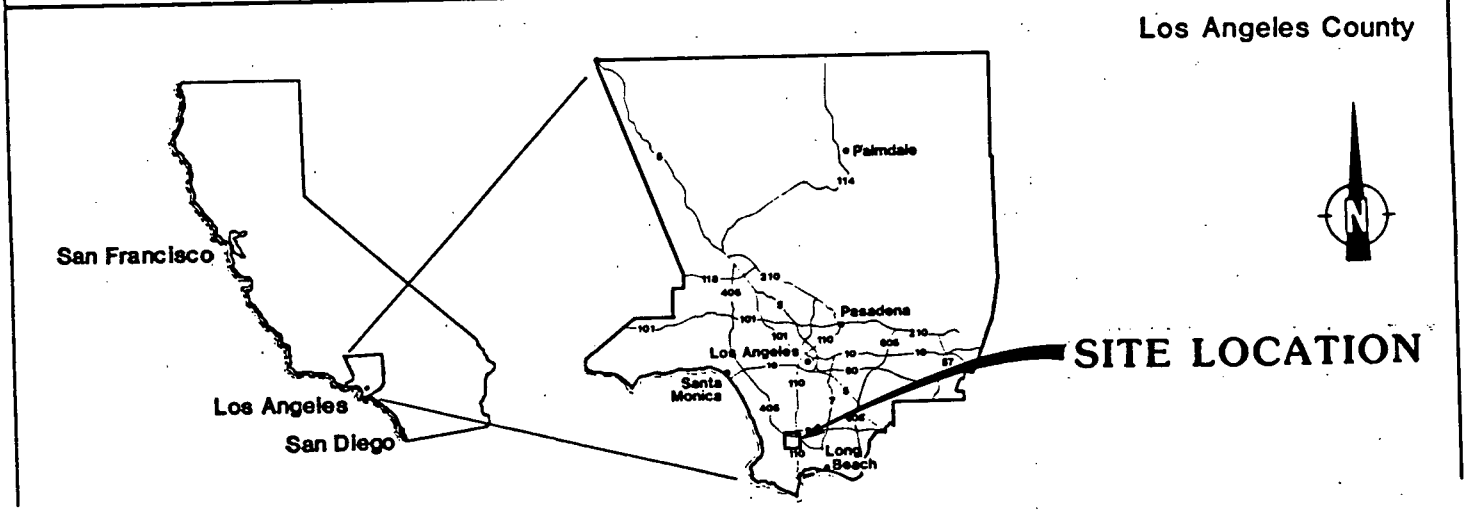
Scale	as shown	Project No.	89-41-636-01
Date	12-21-89		
Prepared By	AHW	Figure No.	2
Checked By	JSS		
Approved By	STG		

MODERN PASADENA BLUEPRINT / 99934



REFERENCE:

Thomas Brothers Guide, Los Angeles County, 1989 edition, pages 68 and 69.



SITE LOCATION MAP

PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Project No.
89-41-636-01

Figure No.
1

CONVERSE ENVIRONMENTAL WEST

Approved for publication 12/19 by

APPENDIX A
Boring Logs

SUMMARY
BORING NO. BH-1

DATE DRILLED: 12-13-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0		CL	very moist	firm	medium to dark brown	SILTY CLAY trace fine to medium-grained sand	Planter Area
1	X						
2							
3	X						
4						End of boring at 4' Boring terminated due to concrete obstruction No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-1

Approved for publication _____ by _____

FORM NO. D5437

SUMMARY
BORING NO. BH-2

DATE DRILLED: 12-13-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0		SM	slightly moist	medium dense	light brown	FILL: SILTY SAND fine to coarse, with frequent fine gravel and concrete debris; fine to medium sand (SP) lens from 6" to 12"	Planter Area
1	X						
2	X						
3						End of boring at 3' Boring terminated due to concrete obstruction No groundwater encountered	

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19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-2

FORM NO. D Approved for publication _____ by _____

SUMMARY
BORING NO. BH-3

DATE DRILLED: 12-13-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						3" Asphalt	
1	X	CL	moist	stiff	brown	SILTY CLAY trace fine to coarse-grained sand	
2					dark brown		
3	X						
						End of boring at 3' No groundwater encountered	

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89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-3

SUMMARY
BORING NO. BH-4

DATE DRILLED: 12-13-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0		CL	slightly moist	firm to stiff	dark brown	SILTY CLAY trace fine to coarse-grained sand	Planter Area
1	X						
2							
3					light brown		
4	X						odor at 3.5 feet
						End of boring at 4' due to gravel No groundwater encountered	

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19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-4

FORM NO. D5 Approved for publication _____ by _____

SUMMARY
BORING NO. BH-5

DATE DRILLED: 12-14-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						$1\frac{1}{2}$" Asphalt over 7" gravelly-sand base	
1	X	CL	slightly moist	firm	dark brown	SILTY CLAY trace silt and fine to coarse-grained sand	
2							
3	X						
						End of boring at 3' Boring terminated due to gravel No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-5

FORM NO. DS/27 Approved for publication _____ by _____

SUMMARY
BORING NO. BH-6

DATE DRILLED: 12-14-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						2" Asphalt over 6" gravelly-sand base	
1		CL	slightly moist	stiff	dark brown	SILTY CLAY trace fine to coarse-grained sand	
2							
3					light brown	increasing silt below 3'	
4	X						
5							
6							
7	X						
						End of boring at 7' No groundwater encountered	

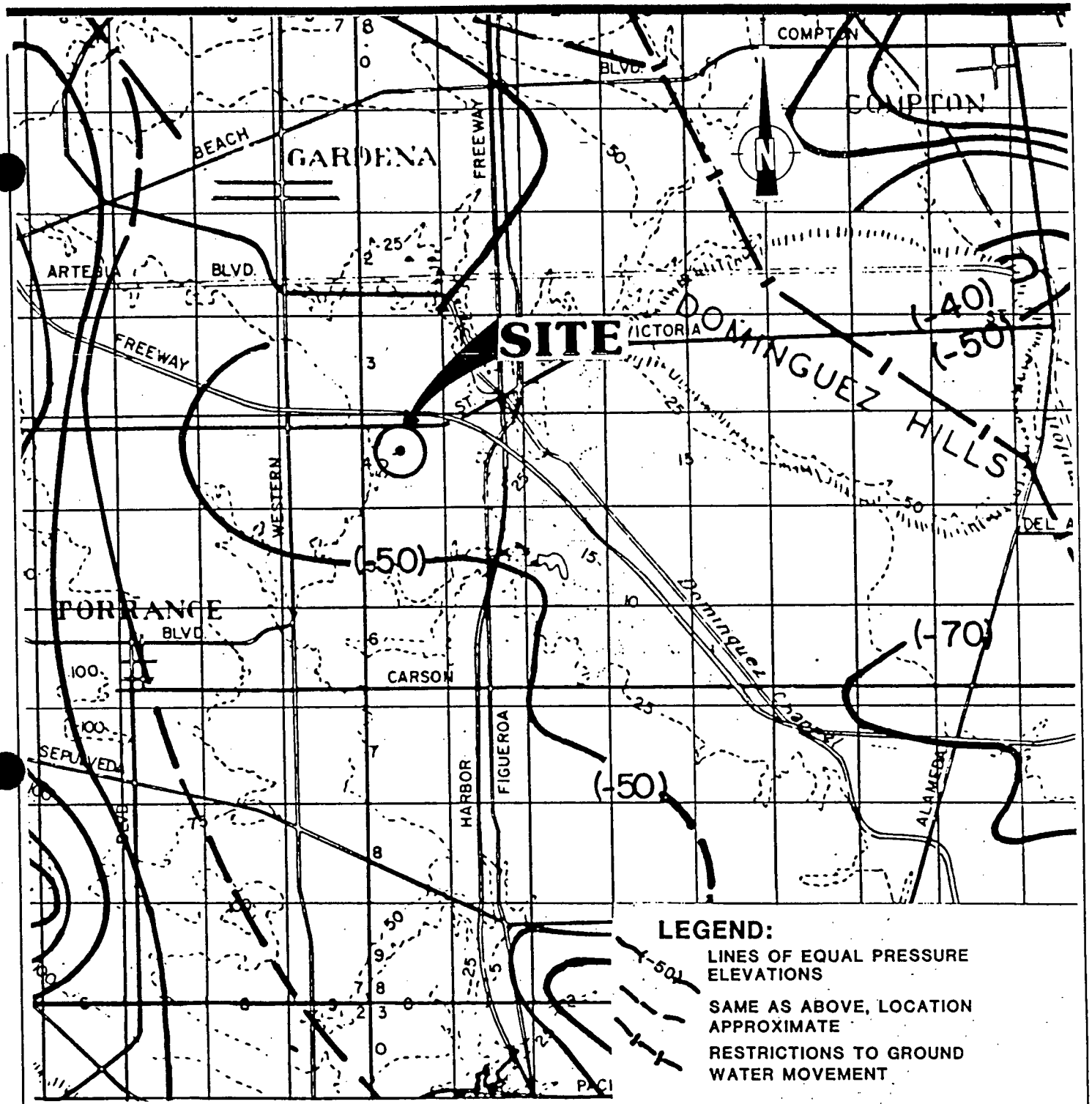
PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-6

FORM NO. D5/77 Approved for publication _____ by _____



REFERENCE:

Los Angeles Flood Control District, Fall 1987, Coastal Plain, Ground Water Contours, Deep Aquifers

0 1 2
SCALE IN MILES

GROUND WATER CONTOUR MAP

PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Project No.
89-41-636-01

Figure No.
3

CONVERSE ENVIRONMENTAL WEST

REFERENCE:

Thomas Bros. Guide, 1989 edition,
Los Angeles County, pgs. 63,64 & 68,69

LEGEND:

1 ● APPROXIMATE LOCATION OF UNDERGROUND TANK LEAK (See Table 3)

LOCATIONS OF UNDERGROUND TANK LEAKS AND PROPOSED NPL SITES

PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Project No.
89-41-636-01

Figure No.
4

CONVERSE ENVIRONMENTAL WEST

Approved for publication

TABLES

TABLE 1

PERMITTED UNDERGROUND STORAGE TANKS IN THE IMMEDIATE VICINITY OF PACIFIC BELL 19310 PACIFIC GATEWAY DRIVE LOS ANGELES, CALIFORNIA

Armor Plating Co.
19524 S. Normandie Ave.
1 Permit

Redman Equipment Co.
19800 S. Normandie Ave
3 Permits

Amelco Electric
19208 S. Vermont Ave.
1 Permit

Jay Steinbeck
1227 Knox St.
1 Permit

Data Components
19120 S. Vermont Ave.
1 Permit

Teledyne Sprague
19300 S. Vermont Ave.
3 Permits

Perma-bilt Steel Products
19106 S. Normandie Ave.
1 Permit

Guardian Industries
20008 S. Normandie Ave.
1 Permit

Teledyne - Crittendyne
711 Knox Ave.
1 Permit

Crestline Mills Carpet Co.
1200 W. Francis Street
2 Permits

Trico Industrial
19706 S. Normandie Ave
2 Permits

Texaco Refining & Marketing
19008 S. Normandie Ave
3 Permits

Jay Steinbeck
19500 S. Normandie Ave
1 Permit

H.H. Osterloh
19514 S. Normandie Ave.
1 Permit

Klingler Co.
19122 S. Vermont Ave.
1 Permit

Green's Ready Mix
19030 S. Normandie Ave
1 Permit

Quadtrad Corp.
19900 S. Normandie Ave.
1 Permit

Renault West Inc.
702 W. 190th Street
1 Permit

Amoco Chemicals Co.
12225 W. 196th Street
1 Permit

TABLE 2

REGISTERED LANDFILLS WITHIN A 1 MILE RADIUS OF PACIFIC BELL 19310 PACIFIC GATEWAY DRIVE LOS ANGELES,CALIFORNIA

STATUS	CLASS	PROJECT NO.	LOCATION
Inactive	II	388	So. Cal. Disposal, 186th Street at Vermont Avenue, Wilmington.
Inactive	II	391	East side of Vermont Avenue at 189th Street , Wilmington.
Inactive	II	396	Gardena Valley Dumps #1 & 2, Torrance Boulevard at Vermont Avenue, Carson.
Inactive	II	397	Gardena Valley Dump #4, Torrance Boulevard and Vermont Avenue, Carson.
Inactive	II	399	Southwest Conservation, 20331 S. Main Street, Carson.
Inactive	II	402	American Disposal Co., 182nd Street at Vermont Avenue, Wilmington.
Inactive	III	401	Southwest Steal No. 1 Dump, 19100 S. Figueroa Street, Carson.
Inactive	Unknown	403	Broadway - Main Co., 19101 S. Main Street, Carson.
Inactive	Unknown	410	LA Co. Sanitation District No. 1, Landfill Area L1A, south of Dominguez Channel on Moneta Avenue, Carson.
Inactive	Unknown	414	Cottler, 18802 S. Broadway, Carson.
Inactive	Unknown	910	Vermont Avenue and knox Street Dump, NE corner of Vermont Avenue and Knox Street, Los Angeles.

TABLE 2 (Continued)

REGISTERED LANDFILLS WITHIN A 1 MILE RADIUS OF PACIFIC BELL 19310 PACIFIC GATEWAY DRIVE LOS ANGELES,CALIFORNIA

STATUS	CLASS	PROJECT NO.	LOCATION
Inactive	Unknown	916	Katz Dump, SW corner of Broadway at Victoria Sreet, Carson.
Inactive	Unknown	918	Hamilton Street Dump, NW corner of the San Diego - Harbor Freeway intersection, south of 190th Street, Los Angeles.
Inactive	Unknown	919	Martin Hallerner, S. Figueroa Street at the Dominguez Channel (opposite 19005 S. Figueroa Street), Carson.
Inactive	Unknown	923	Brown Dump, 19001 S. Figueroa Street, Carson.
Active	III	128	Shell Chemical, 19500 S. Moneta Street, Carson.
Active	Unknown	301	South side of Dominguez Channel, Vicinity of 182nd Street and Harbor Freeway, Los Angeles.

TABLE 3
UNDERGROUND TANK LEAK LOCATIONS AND NPL SITES

TANK LEAK REFERENCE NUMBER	FACILITY NAME	ADDRESS	AFFECTED RESOURCE	STATUS	SUBSTANCE
1	Texaco Station	19008 Normandie Los Angeles	Undertermined	Investigation in Progress	Waste Oil
2	Douglas Aircraft	19503 Normandie Torrance	Ground Water	Investigation in Progress	Gasoline
3	Douglas Aircraft	19503 Normandie Torrance	Soil	Investigation in Progress	Gasoline
4	Douglas Aircraft	19503 Normandie Torrance	Soil	Investigation in Progress	Gasoline
5	Douglas Aircraft	19503 Normandie Torrance	Soil	Investigation in Progress	Gasoline
6	UnoCal Station	18605 Western Ave Torrance	Soil	Investigation in Progress	Gasoline
7	Toyota Motors	19001 Western Ave Torrance	Soil	No Action	Diesel
8	The Carson Estates Company	20225 Western Ave Torrance	Ground Water	Investigation in Progress	Misc motor vehicle fuel
9	Rollins Leasing Corporation	20425 Hamilton Carson	Ground Water	No Action	Inspecified Product
10	Carson City Towing Service	19135 Main Street Carson	Ground Water	Investigation in Progress	Unleaded Gasoline
11	Teledyne-Sprague Engineering	19300 Vermont Ave Los Angeles	N/A	Investigation in Progress	Unspecified Product
NPL SITE	Montrose Chemical Corporation	20201 Normandie Los Angeles	Ground Water and Soil	Investigation in Progress	DDT
NPL SITE	Del Amo Site	Del Amo Blvd (North Side) Between Normandie & Vermont	Ground Water and Soil	Investigation in Progress	VOC and PNA

References: 1) California Regional Water Quality Control Board, Los Angeles (Region 4), Underground Storage Tanks Leak List in Los Angeles County and Ventura County, 1989

2) Environmental Protection Agency, Fact Sheet, Montrose Chemical Corporation, Superfund Site, 1988

3) California Department of Health Services, Health and Welfare Agency, Toxic Substance Control Division, 1989, Expenditure Plan for the Substance Cleanup Bond Act of 1984, Revision No. 4

SUMMARY
BORING NO. BH-7

DATE DRILLED: 12-14-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						2" Asphalt over 6" gravelly-sand base	
1		CL	slightly moist	firm	dark brown	FILL: SILTY CLAY trace sand and gravel to $2\frac{1}{2}$" diameter; trace concrete debris at 2'	
2	X						Apparent ACM at 2'
3				stiff	light brown	increasing silt below $2\frac{1}{2}$'	
4	X						
						End of boring at 4' No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-7

FORM NO. D5/77 Approved for publication _____ by _____

SUMMARY
BORING NO. BH-8

DATE DRILLED: 12-14-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						2" Asphalt over 6" gravelly-sand base	
1	X	CL	slightly moist	stiff	dark brown	FILL: SILTY CLAY trace fine to coarse-grained sand and gravel to 2" diameter	Apparent ACM at 2'
2							
3	X						
						End of boring at 3' No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-8

FORM NO. D5/77 Approved for publication _____ by _____

SUMMARY
BORING NO. BH-9

DATE DRILLED: 12-14-89

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ELEVATION:

DEPTH IN FEET	SAMPLES	SYMBOL					REMARKS
0						2" Asphalt over 6" gravelly-sand base	
1	X	CL	slightly moist	firm	dark brown	SILTY CLAY trace fine to coarse-grained sand	
2							
3							
4	X						
						End of boring at 4' No groundwater encountered	

PACIFIC BELL
19310 Pacific Gateway Drive, Los Angeles, California
for: Pacific Bell

Project No.
89-41-636-01

CONVERSE ENVIRONMENTAL WEST

Drawing No.
A-9

FORM NO. D5477 Approved for publication _____ by _____

APPENDIX B

Laboratory Test Results and Chain-of-Custody Records

BROWN AND CALDWELL LABORATORIES

801 WESTERN AVENUE, GLENDALE, CA 91201
(818) 247-5737

FAX: (818) 247-9797

ANALYTICAL REPORT

LOG NO: G89-12-273

Received: 14 DEC 89
Reported: 21 DEC 89

Mr. Steve Griswold
Converse Consultants
67 W. Bellevue
Pasadena, California 91105

Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-1	BH 1 @ 1.0' and 3.0'	14 DEC 89
12-273-2	BH 2 @ 1.0' and 2.5'	14 DEC 89
12-273-3	BH 3 @ 1.0' and 3.0'	14 DEC 89
12-273-4	BH 4 @ 1.0' and 4.0'	14 DEC 89
12-273-5	BH 5 @ 1.0' and 3.0'	14 DEC 89

PARAMETER	12-273-1	12-273-2	12-273-3	12-273-4	12-273-5
Pesticides/PCBs (EPA 8080)					
Date Analyzed	12/20/89	12/20/89	12/20/89	12/21/89	12/20/89
Date Extracted	12/18/89	12/18/89	12/18/89	12/18/89	12/18/89
Dilution Factor, Times 1	1	1	1	10	1
p,p'-DDD, mg/kg	0.006	0.025	0.012	<0.05	0.039
p,p'-DDE, mg/kg	<0.005	<0.005	0.012	<0.05	0.058
p,p'-DDT, mg/kg	0.012	0.063	0.065	<0.05	0.021
Aldrin, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Chlordane, mg/kg	<0.03	<0.03	<0.03	<0.3	<0.03
Dieldrin, mg/kg	<0.005	<0.005	0.008	<0.05	0.010
Endosulfan I, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Endosulfan II, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Endosulfan sulfate, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Endrin, mg/kg	<0.005	<0.005	<0.005	<0.05	0.009
Endrin aldehyde, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Heptachlor epoxide, mg/kg	<0.005	<0.016	<0.005	<0.05	<0.005
Heptachlor, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
Methoxychlor, mg/kg	<0.02	<0.02	<0.02	<0.2	<0.02
Aroclor 1016, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1221, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1232, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1242, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1248, mg/kg	<0.1	<0.1	<0.1	<1	<0.1

BROWN AND CALDWELL LABORATORIES

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ANALYTICAL REPORT

LOG NO: G89-12-273

Received: 14 DEC 89
Reported: 21 DEC 89

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Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-1	BH 1 @ 1.0' and 3.0'	14 DEC 89
12-273-2	BH 2 @ 1.0' and 2.5'	14 DEC 89
12-273-3	BH 3 @ 1.0' and 3.0'	14 DEC 89
12-273-4	BH 4 @ 1.0' and 4.0'	14 DEC 89
12-273-5	BH 5 @ 1.0' and 3.0'	14 DEC 89

PARAMETER	12-273-1	12-273-2	12-273-3	12-273-4	12-273-5
Aroclor 1254, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1260, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Aroclor 1262, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
Toxaphene, mg/kg	<0.1	<0.1	<0.1	<1	<0.1
BHC, alpha isomer, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
BHC, beta isomer, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
BHC, delta isomer, mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005
BHC, gamma isomer (Lindane), mg/kg	<0.005	<0.005	<0.005	<0.05	<0.005

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LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-1	BH 1 @ 1.0' and 3.0'	14 DEC 89
12-273-2	BH 2 @ 1.0' and 2.5'	14 DEC 89
12-273-3	BH 3 @ 1.0' and 3.0'	14 DEC 89
12-273-4	BH 4 @ 1.0' and 4.0'	14 DEC 89
12-273-5	BH 5 @ 1.0' and 3.0'	14 DEC 89

PARAMETER	12-273-1	12-273-2	12-273-3	12-273-4	12-273-5
Vol.Pri.Poll. (EPA-8240)					
Date Extracted	12/18/89	12/18/89	12/18/89	12/18/89	12/18/89
Date Analyzed	12/19/89	12/19/89	12/19/89	12/19/89	12/19/89
Dilution Factor, Times 1	1	1	1	1	1
1,1,1-Trichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,1,2,2-Tetrachloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,1,2-Trichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,1-Dichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,1-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,2-Dichloropropane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,3-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
cis-1,3-Dichloropropene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
1,4-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
2-Chloroethylvinylether, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
2-Hexanone, mg/kg	<3	<3	<3	<3	<3
Acetone, mg/kg	<3	<3	<3	<3	<3
Acrolein, mg/kg	<6	<6	<6	<6	<0.6
Acrylonitrile, mg/kg	<6	<6	<6	<6	<6
Bromodichloromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Bromomethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Benzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-1	BH 1 @ 1.0' and 3.0'	14 DEC 89
12-273-2	BH 2 @ 1.0' and 2.5'	14 DEC 89
12-273-3	BH 3 @ 1.0' and 3.0'	14 DEC 89
12-273-4	BH 4 @ 1.0' and 4.0'	14 DEC 89
12-273-5	BH 5 @ 1.0' and 3.0'	14 DEC 89

PARAMETER	12-273-1	12-273-2	12-273-3	12-273-4	12-273-5
Chlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Carbon Tetrachloride, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Chloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Bromoform, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Chloroform, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Chloromethane, mg/kg	<0.6	<0.6	<0.6	<0.6	<0.6
Carbon Disulfide, mg/kg	<0.6	<0.6	<0.6	<0.6	<0.6
Dibromochloromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Ethylbenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Freon 113, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Methyl isobutyl ketone, mg/kg	<2	<2	<2	<2	<2
Methyl ethyl ketone, mg/kg	<3	<3	<3	<3	<3
Methylene chloride, mg/kg	<0.3	0.4	<0.3	<0.3	<0.3
Tetrachloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Styrene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Trichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Trichlorofluoromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Toluene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Vinyl acetate, mg/kg	<2	<2	<2	<2	<2
Vinyl chloride, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Total Xylene Isomers, mg/kg	<2	<2	<2	<2	<2
trans-1,2-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
trans-1,3-Dichloropropene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-1	BH 1 @ 1.0' and 3.0'	14 DEC 89
12-273-2	BH 2 @ 1.0' and 2.5'	14 DEC 89
12-273-3	BH 3 @ 1.0' and 3.0'	14 DEC 89
12-273-4	BH 4 @ 1.0' and 4.0'	14 DEC 89
12-273-5	BH 5 @ 1.0' and 3.0'	14 DEC 89

PARAMETER	12-273-1	12-273-2	12-273-3	12-273-4	12-273-5
cis-1,2-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3

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REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-6	BH 6 @ 4.0' and 7.0'	14 DEC 89
12-273-7	BH 7 @ 2.0' and 4.0'	14 DEC 89
12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
Sample Held, Not Analyzed	---	---	---	---	HOLD

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LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
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12-273-7	BH 7 @ 2.0' and 4.0'	14 DEC 89
12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
Pesticides/PCBs (EPA 8080)					
Date Analyzed	12/20/89	12/20/89	12/20/89	12/20/89	---
Date Extracted	12/18/89	12/18/89	12/18/89	12/18/89	---
Dilution Factor, Times 1	1	1	1	1	---
p,p'-DDD, mg/kg	<0.005	0.033	<0.005	<0.005	---
p,p'-DDE, mg/kg	<0.005	0.051	<0.005	0.005	---
p,p'-DDT, mg/kg	<0.005	0.013	<0.005	0.017	---
Aldrin, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Chlordane, mg/kg	<0.03	<0.03	<0.03	<0.03	---
Dieldrin, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Endosulfan I, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Endosulfan II, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Endosulfan sulfate, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Endrin, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Endrin aldehyde, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Heptachlor epoxide, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Heptachlor, mg/kg	<0.005	<0.005	<0.005	<0.005	---
Methoxychlor, mg/kg	<0.02	<0.02	<0.02	<0.02	---
Aroclor 1016, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1221, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1232, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1242, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1248, mg/kg	<0.1	<0.1	<0.1	<0.1	---

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12-273-7	BH 7 @ 2.0' and 4.0'	14 DEC 89
12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
Aroclor 1254, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1260, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Aroclor 1262, mg/kg	<0.1	<0.1	<0.1	<0.1	---
Toxaphene, mg/kg	<0.1	<0.1	<0.1	<0.1	---
BHC, alpha isomer, mg/kg	<0.005	<0.005	<0.005	<0.005	---
BHC, beta isomer, mg/kg	<0.005	<0.005	<0.005	<0.005	---
BHC, delta isomer, mg/kg	<0.005	<0.005	<0.005	<0.005	---
BHC, gamma isomer (Lindane), mg/kg	<0.005	<0.005	<0.005	<0.005	---

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12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
Vol.Pri.Poll. (EPA-8240)					
Date Extracted	12/18/89	12/18/89	12/18/89	12/18/89	---
Date Analyzed	12/19/89	12/19/89	12/19/89	12/19/89	---
Dilution Factor, Times 1	1	1	1	1	---
1,1,1-Trichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,1,2,2-Tetrachloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,1,2-Trichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,1-Dichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,1-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,2-Dichloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,2-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,2-Dichloropropane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,3-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
cis-1,3-Dichloropropene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
1,4-Dichlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
2-Chloroethylvinylether, mg/kg	<0.3	<0.3	<0.3	<0.3	---
2-Hexanone, mg/kg	<3	<3	<3	<3	---
Acetone, mg/kg	<3	<3	<3	<3	---
Acrolein, mg/kg	<6	<6	<6	<6	---
Acrylonitrile, mg/kg	<6	<6	<6	<6	---
Bromodichloromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Bromomethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Benzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---

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12-273-7	BH 7 @ 2.0' and 4.0'	14 DEC 89
12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
Chlorobenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Carbon Tetrachloride, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Chloroethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Bromoform, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Chloroform, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Chloromethane, mg/kg	<0.6	<0.6	<0.6	<0.6	---
Carbon Disulfide, mg/kg	<0.6	<0.6	<0.6	<0.6	---
Dibromochloromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Ethylbenzene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Freon 113, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Methyl isobutyl ketone, mg/kg	<2	<2	<2	<2	---
Methyl ethyl ketone, mg/kg	<3	<3	<3	<3	---
Methylene chloride, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Tetrachloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Styrene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Trichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Trichlorofluoromethane, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Toluene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Vinyl acetate, mg/kg	<2	<2	<2	<3	---
Vinyl chloride, mg/kg	<0.3	<0.3	<0.3	<0.3	---
Total Xylene Isomers, mg/kg	<2	<2	<2	<2	---
trans-1,2-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	---
trans-1,3-Dichloropropene, mg/kg	<0.3	<0.3	<0.3	<0.3	---

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(818) 247-5737

FAX: (818) 247-9797

ANALYTICAL REPORT

LOG NO: G89-12-273

Received: 14 DEC 89
Reported: 21 DEC 89

Mr. Steve Griswold
Converse Consultants
67 W. Bellevue
Pasadena, California 91105

Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-6	BH 6 @ 4.0' and 7.0'	14 DEC 89
12-273-7	BH 7 @ 2.0' and 4.0'	14 DEC 89
12-273-8	BH 9 @ 1.0' and 4.0'	14 DEC 89
12-273-9	BH 8 @ 1.0' and 3.0'	14 DEC 89
12-273-10	BH 1 @ 1.0'	14 DEC 89

PARAMETER	12-273-6	12-273-7	12-273-8	12-273-9	12-273-10
cis-1,2-Dichloroethene, mg/kg	<0.3	<0.3	<0.3	<0.3	---

BROWN AND CALDWELL LABORATORIES

801 WESTERN AVENUE, GLENDALE, CA 91201
(818) 247-5737

FAX: (818) 247-9797

ANALYTICAL REPORT

LOG NO: G89-12-273

Received: 14 DEC 89
Reported: 21 DEC 89

Mr. Steve Griswold
Converse Consultants
67 W. Bellevue
Pasadena, California 91105

Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-11	BH 1 @ 3.0'	14 DEC 89
12-273-12	BH 2 @ 1.0'	14 DEC 89
12-273-13	BH 2 @ 2.5'	14 DEC 89
12-273-14	BH 3 @ 1.0'	14 DEC 89
12-273-15	BH 3 @ 3.0'	14 DEC 89

PARAMETER	12-273-11	12-273-12	12-273-13	12-273-14	12-273-15
Sample Held, Not Analyzed	HOLD	HOLD	HOLD	HOLD	HOLD

BROWN AND CALDWELL LABORATORIES

801 WESTERN AVENUE, GLENDALE, CA 91201
(818) 247-5737

FAX: (818) 247-9797

ANALYTICAL REPORT

LOG NO: G89-12-273

Received: 14 DEC 89
Reported: 21 DEC 89

Mr. Steve Griswold
Converse Consultants
67 W. Bellevue
Pasadena, California 91105

Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-16	BH 4 @ 1.0'	14 DEC 89
12-273-17	BH 4 @ 4.0'	14 DEC 89
12-273-18	BH 5 @ 1.0'	14 DEC 89
12-273-19	BH 5 @ 3.0'	14 DEC 89
12-273-20	BH 6 @ 4.0'	14 DEC 89

PARAMETER	12-273-16	12-273-17	12-273-18	12-273-19	12-273-20
Sample Held, Not Analyzed	HOLD	HOLD	HOLD	HOLD	HOLD

BROWN AND CALDWELL LABORATORIES

801 WESTERN AVENUE, GLENDALE, CA 91201
(818) 247-5737

FAX: (818) 247-9797

ANALYTICAL REPORT

LOG NO: G89-12-273

Received: 14 DEC 89
Reported: 21 DEC 89

Mr. Steve Griswold
Converse Consultants
67 W. Bellevue
Pasadena, California 91105

Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-21	BH 6 @ 7.0'	14 DEC 89
12-273-22	BH 7 @ 2.0'	14 DEC 89
12-273-23	BH 7 @ 4.0'	14 DEC 89
12-273-24	BH 9 @ 1.0'	14 DEC 89
12-273-25	BH 9 @ 4.0'	14 DEC 89

PARAMETER	12-273-21	12-273-22	12-273-23	12-273-24	12-273-25
Sample Held, Not Analyzed	HOLD	HOLD	HOLD	HOLD	HOLD

BROWN AND CALDWELL LABORATORIES

801 WESTERN AVENUE, GLENDALE, CA 91201
(818) 247-5737

FAX: (818) 247-9797

ANALYTICAL REPORT

LOG NO: G89-12-273

Received: 14 DEC 89
Reported: 21 DEC 89

Mr. Steve Griswold
Converse Consultants
67 W. Bellevue
Pasadena, California 91105

Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
12-273-26	BH 8 @ 1.0'	14 DEC 89
12-273-27	BH 8 @ 3.0'	14 DEC 89

PARAMETER	12-273-26	12-273-27
Sample Held, Not Analyzed	HOLD	HOLD

BROWN AND CALDWELL LABORATORIES

801 WESTERN AVENUE, GLENDALE, CA 91201
(818) 247-5737

FAX: (818) 247-9797

ANALYTICAL REPORT

LOG NO: G89-12-273

Received: 14 DEC 89
Reported: 21 DEC 89

Mr. Steve Griswold
Converse Consultants
67 W. Bellevue
Pasadena, California 91105

Project: 89-41-636-01

REPORT OF ANALYTICAL RESULTS

Sample BH4 @ 1.0' and 4.0' was diluted tenfold during the pesticide analysis due to high levels of sulfur present in the sample.
12/21/89 -- L. Brack

Jeffrey A. Erion, Laboratory Manager

CHAIN OF CUSTODY RECORD

BC Log Number [redacted]

Client name: CONVERSE ENVIRONMENTAL WEST

Job number or Purchase order number: 89-41-636-0

Project name: PACIFIC BELL / PACIFIC GATEWAY

Project manager: S.T.G.

Sampler(s): G.H.M., ~~[illegible]~~, AND R.P.S.

Analyses required: EPA 8080, EPA 8240, Hazardous sample / Special handling required

Sample number	Date sampled	Time sampled	Matrix Type	Sample description	Number of containers	EPA 8080	EPA 8240						Hazardous sample / Special handling required	Remarks
S-1	12-13-89	9:15		B.H. 1 (1.0') COMPOSITE	1	X	X							1 WEEK RUSH
S-2	"	9:25		B.H. 1 (3.0') COMPOSITE	1	X	X							" "
S-1	"	11:15		B.H. 2 (1.0') COMPOSITE	1	X	X							" "
S-2	"	11:30		B.H. 2 (2.5') COMPOSITE	1	X	X							" "
S-1	"	11:45		B.H. 3 (1.0') COMPOSITE	1	X	X							" "
S-2	"	12:15		B.H. 3 (3.0') COMPOSITE	1	X	X							" "
S-1	"	1:00		B.H. 4 (1.0') COMPOSITE	1	X	X							" "
S-2	"	1:25		B.H. 4 (4.0') COMPOSITE	1	X	X							" "
				* the jar for BH3 at 1.0 should 2.0'										

	Signature	Company	Date	Time
Relinquished by	[illegible]	CONVERSE ENVIRONMENTAL WEST	12-14-89	4:20 PM
Received by	Tracy Gaynor	BC Analytical	12-14-89	4:20 PM
Relinquished by				
Received by				
Relinquished by				
Received by				

BC ANALYTICAL

☐ 1255 Powell Street, Emeryville, CA 94608 (415) 428-2300

☐ 801 Western Avenue, Glendale, CA 91201 (818) 247-5737

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Hazardous samples will be returned to client or disposed of at client expense.

CHAIN OF CUSTODY RECORD

BC Log Number G89-12-273

Client name: CONVERSE ENVIRONMENTAL WEST

Job number or Purchase Order number: 89-41-636-01

Project name: PACIFIC BELL / PACIFIC GATEWAY

Project manager: S.T.G.

Sampler(s): J.S.S., R.P.S.

Analyses required

Sample number	Date sampled	Time sampled	Matrix Type	Sample description	Number of containers	EPA 8080	EPA 8240						Hazardous sample Special handling required	Remarks
S-1	12-14-89	8:10		B.H. 5 (1.0') COMPOSITE	1	X	X							1 WEEK RUSH
S-2	"	8:30		B.H. 5 (3.0')	1	X	X							" "
S-1	"	10:10		B.H. 6 (4.0') COMPOSITE	1	X	X							" "
S-2	"	10:30		B.H. 6 (7.0')	1	X	X							" "
S-1	"	12:00		B.H. 7 (2.0') COMPOSITE	1	X	X							" "
S-2	"	12:20		B.H. 7 (4.0')	1	X	X							" "
S-1	"	1:45		B.H. 9 (1.0') COMPOSITE	1	X	X							" "
S-2	"	2:00		B.H. 9 (4.0')	1	X	X							" "
S-1	"	2:30		B.H. 8 (1.0') COMPOSITE	1	X	X							" "
S-2	"	2:45		B.H. 8 (3.0')	1	X	X							" "

	Signature	Company	Date	Time
Relinquished by	Rick Swartz	CONVERSE ENVIRONMENTAL WEST	12-14-89	4:20 PM
Received by	Tracy Gaynor	BC Analytical	12-14-89	4:20 PM
Relinquished by				
Received by				
Relinquished by				
Received by				

BC ANALYTICAL

☐ 1255 Powell Street, Emeryville, CA 94608 (415) 428-2300

☐ 801 Western Avenue, Glendale, CA 91201 (818) 247-5737

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Hazardous samples will be returned to client or disposed of at client expense.

BULK SAMPLE ANALYSIS REPORT

Date: December 18, 1989
BLI Ref. No: 1289-106

NIST, NVLAP Lab Code No: 1344
California Department of Health Services
Lab Certification No: 243
Analytical Method: EPA 600/M4-82-020

BSE Labs

BSE Labs Inc.
82 W. Sierra Madre Blvd
Sierra Madre, CA 91024
(818) 355-4711
FAX: (818) 355-4497

Name: Mr. Josh Sacker
Address: Converse Environmental West
67 W. Bellevue Drive
Pasadena, CA 91105

Client Project: Pac Bell/Pacific Gateway
Date Received: December 15, 1989
Date Analyzed: December 15, 1989
Number of Samples: 2

Microscopist: Art Casas

	Client Sample No.	BLI Sample No.	Sample Description	% Chr.	% Amos.	Asbestos % Other	% Total	Non Asbestos Fibrous	Non Fibrous	Q.C.
1	BH-7A2	1289-106-1	HAND AUGER AT BH-7, DEPTH OF 16" GRAY/BROWN, SOLID	30	N/D	10	40	---	Y	
2	BH-9A2	1289-106-2	HAND ANGER AT BH-9, DEPTH OF 24" GRAY/BROWN, SOLID	40	N/D	10	50	---	Y	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

Signatures: Lab Director _____ Microscopist _____

BSE Labs

BSE Labs Inc.
82 West Sierra Madre Boulevard
Sierra Madre, California 91024
(818) 355-4711
FAX: (818) 355-4497

12/18/89

INVOICE

INVOICE NO. L/2573

Mr. Josh Sacker
CONVERSE ENVIRONMENTAL WEST
67 W. Bellevue Drive
Pasadena, CA 91105

Client Project: Pac Bell/Pacific Gateway
Reference: 1289-106
Service: Services by BSE LABS, INC..
Dates: 12/18/89

Task	Description	Quantity	Multiplier	Fee
1289-106	Bulk Sample Analysis 24 Hour Turnaround	2 EA	23.00	46.00

TOTAL 46.00

FOR THIS INVOICE PLEASE PAY THIS AMOUNT **46.00**

BSE Labs Inc.
82 W. Sierra Madre Blvd.
Sierra Madre, CA 91024
(818) 355-4711
FAX: (818) 355-4497

LABORATORY USE ONLY:
BLI Ref. No.: 1289-106
Client No.: L231089006-1

REQUEST FOR LABORATORY ANALYSIS

FOR BULK SAMPLES BY PLM

COMPANY: CONVERSE ENVIRONMENTAL WEST
NAME: JOSH SACKER
ADDRESS: 67 W. BELLEVUE DRIVE
CITY: PASADENA STATE: CA ZIP: 91105
PHONE: 818 796 8200 FAX: 818 795 3394
COLLECTED BY: JSS
PROJECT NAME: Pac Bell ~~Pacific Gateway~~ I.D. #:
SPECIAL INSTRUCTIONS:
24 hour Rush
NO. OF SAMPLES: 2

MUST BE FILLED OUT BY CLIENT:
(1) Turn-Around Time Requested:
( ) Rush ( ) Same Day
(X) 24 Hour ( ) 48 Hour
( ) Normal (3-5 Days)
( ) Weekend
(2) Verbal Requested:
( ) No ( ) Yes
(3) FAX Requested:
( ) No ( ) Yes
CONTACT:

BULK SAMPLE DATA LOG:

	SAMPLE NO.	BUILDING FLOOR	SAMPLE LOCATION	SAMPLE DESCRIPTION	QUANTITY/ CONDITION REMARKS
	BH-7 A2 Asbestos(?)	IN SOIL	HAND AUGER AT BH-7 Depth of 16"	BH-7 A2 Asbestos(?)	TESTING FOR ASBESTOS
2	BH-9 A2 Asbestos(?)	IN SOIL	HAND AUGER AT BH-9 DEPTH OF 24"	BH-9 A2 Asbestos(?)	TESTING FOR ASBESTOS
3					
4					
5					
6					
7					
8					
9					
10					

CHAIN OF CUSTODY:
Samples Submitted By: [signature] Date: 12-15-89 Time: 1 45pm Shipped By:
Samples Received By: [signature] Date: 12-15-89 Time: 145pm

WHITE COPY - Lab GOLD COPY - Lab PINK COPY - Client

CONVERSE ENVIROLAB

67 West Bellevue Drive
Suite D
Pasadena, California 91105-2501

Telephone: 818/796-8200

December 18, 1989

PROJECT/CLIENT:	PAC BELL/ PACIFIC GATEWAY	PROJECT NUMBER:	89-41-636-01
PROJECT MGR.:	S. GRISWOLD	ENVIROLAB NUMBER:	89-71-12-138

Subject: Analysis of Samples

On December 15, 1989, two (2) bulk samples were received by the laboratory for identification of asbestos by "The Interim Method for the Determination of Asbestos in Bulk Insulation Samples." The results obtained from this analysis are listed in the attached table.

George Colovos, Ph.D.
Laboratory Director

ANALYSIS OF SAMPLES BY POLARIZED LIGHT MICROSCOPY

Methodology: "The Interim Method for Determination of Asbestos in Bulk Insulation Samples" (EPA-600/M4-82-020; December, 1982).

Project/Client: Pac Bell/Pacific Gateway
Project Manager: Steve Griswold

Project Number: 89-41-636-01
Envirolab Number: 89-71-12-138

Sample ID Number	Physical Description of Bulk Sample	Asbestos Materials	Percent Composition	Non-Asbestos Materials	Percent Composition	% Total
BH9 A1	Hard grey, brittle mass with white and blue-black fibrous inclusions.	Chrysotile Crocidolite	40 40	Binder/filler	20	100
BH7 A1	Hard grey, brittle mass with white and blue-black fibrous inclusions.	Chrysotile Crocidolite	40 40	Binder/filler	20	100

Analyzed:

Michael J. Crisostomo
Analyst

Approved:

George Colovos, Ph.D.
Laboratory Director

CONVERSE ENVIROLAB

CONVERSE ENVIROLAB
West Bellevue Drive, Pasadena, CA 91105
Telephone (818) 796-8200, FAX (818) 795-3394

CHAIN OF CUSTODY RECORD

Envirolab Log Number 89-71-12-138

Project Name: PAC BELL / PACIFIC GATEWAY
Project Number: 8941 636 01
Project Location: 19310 Pacific Gateway Dr
Phone Number:
Project Manager: STG
Sample Collector: JSS

Analyses required: PLM; Identification of Asbestos

Lab sample number	Date sampled	Time sampled	Matrix	Sample identification	Comp. Instr.	PLM								Remarks
	12-14-89		bulk	BH-9 A1	D	✓								
	12-14-89		bulk	BH-7 A1	D	✓								

	Signature	Print Name	Company	Date	Time
Relinquished by	Josh Sacker	JOSH SACKER	CONVERSE ENVIRONMENTAL WEST	12-15-89	1100hrs
Received by	[illegible]	MICHAEL J. CRISOSTOMO	CONVERSE ENVIROLAB	12-15-89	1100hrs
Relinquished by					
Received by					
Relinquished by					
Received by					

APPENDIX C

Copies of Los Angeles Department of Building and Safety Records

MS-4A 1

1

APPLICATION FOR INSPECTION OF NEW BUILDING AND FOR CERTIFICATE OF OCCUPANCY

CITY OF LOS ANGELES — DEPT. OF BUILDING AND SAFETY — B&S B-1 — R6.77

INSTRUCTIONS: 1. Applicant to Complete Numbered Items Only. 2. Plot Plan Required on Back of Original.

1. LEGAL DESCR. — LOT FRAC 22, FR 23; 26, 27 & ROYSTMEAD VARAMOO — TRACT 4671 — DIST. MAP 7940 — CENSUS TRACT 2921.00
2. PURPOSE OF BUILDING: (13) Office Building — ZONE M3-1
3. JOB ADDRESS: 19310 Pacific Gateway Drive — FIRE DIST. II
4. BETWEEN CROSS STREETS: 190th St. AND Knox — LOT (TYPE)
5. OWNER'S NAME: Cadillac Fairview — PHONE 637-0777 — LOT SIZE
6. OWNER'S ADDRESS: 2200 W. Artesia Blvd. — CITY Compton — ZIP 90220
7. ENGINEER: Erkel/Green Field — BUS. LIC. NO. — ACTIVE STATE LIC. NO. SE 883 — PHONE 278-8133 — ALLEY
8. ARCHITECT OR DESIGNER: Group Arcon — BUS. LIC. NO. — ACTIVE STATE LIC. NO. C-5847 — PHONE 689-4411 — BLDG. LINE
9. CONTRACTOR: Oltmans Const. — BUS. LIC. NO. — ACTIVE STATE LIC. NO. 86393 — PHONE 576-8474 — AFFIDAVITS BR 784848 OB 14332
10. BRANCH LENDER — ADDRESS — CITY
11. SIZE OF NEW BLDG. WIDTH 135' LENGTH 150'7" — STORIES 2 — HEIGHT 26' — NO. OF EXISTING BUILDINGS ON LOT AND USE: None
12. MATERIAL OF CONSTRUCTION → EXT. WALLS: Conc. — ROOF: Mtl.Deck — FLOOR: Conc. — SEISMIC STUDY ZONE

1

13. JOB ADDRESS: 19310 Pacific Gateway Drive — DIST. OFFICE San Pedro
14. VALUATION TO INCLUDE ALL FIXED EQUIPMENT REQUIRED TO OPERATE AND USE PROPOSED BUILDING: $1,500,000.00 — CRIT. SOIL
1 of 2 Total Val: $1,791,000.00 — GRADING
HIGHWAY DED. No

PURPOSE OF BUILDING: Office Building — STORIES 2 — HEIGHT 26 — FLOOD

TYPE V	GROUP OCC. G-1	BLDG. AREA 17,000	PLANS CHECKED	CONS.
DWELL. UNITS	MAX. OCC. (SEE OVER)	TOTAL	PLANS APPROVED	ZONED BY Breskovich
GUEST ROOMS	PARKING REQ'D 68	PARKING PROVIDED STD. SEE COMPUTATION	APPLICATION APPROVED	FILE WITH
SPRINKLERS REQ'D SPECIFIED NO	CONT. INSP.		INSPECTION ACTIVITY: COMB / GEN / MECH. / CONS	INSPECTOR M

P.C.	P.	B.P.	Y.I.	P.M.	I.F.	G.P.I.	C/O	O.S.
3907.37	1956.70	3826		70				

P.C. NO. B-1798 — WORKER'S COMPENSATION INSURANCE CERTIFICATE ON FILE / EXEMPT — Energy: 10% H/C — TYPIST cak

PERMIT EXPIRES TWO YEARS AFTER FEE IS PAID OR 180 DAYS AFTER FEE IS PAID IF CONSTRUCTION IS NOT COMMENCED.

CASHIER'S USE ONLY
NOV-1-78 03325 P — CK 3,907.37
FEB-15-79 05871 P — CK 4035.83

LIMIT OF PERMIT

"This permit is an application for inspection, the issuance of which is not an approval or an authorization of the work specified herein. This permit does not authorize or permit, nor shall it be construed as authorizing or permitting the violation or failure to comply with any applicable law. Neither the City of Los Angeles, nor any board, department, officer or employee thereof make any warranty or shall be responsible for the performance or results of any work described herein, or the condition of the property or soil upon which such work is performed." (See Sec. 91.0202 L.A.M.C.)

Signed (Owner or Agent having Property Owner's Consent) ALSO, sign statement on reverse side, if applicable. — Signature/Date

Bureau of Engineering	ADDRESS APPROVED		M. Grossman 1/26/79
	DRIVEWAY		M. Grossman 1/26/79
	HIGHWAY DEDICATION	REQUIRED	
		COMPLETED	
	FLOOD CLEARANCE		
	SEWERS SFC DUE 7,000.80	SEWERS AVAILABLE	M. Grossman 1/26/79
		NOT AVAILABLE	
		SFC PAID	
	SFC NOT APPLICABLE	SFC DUE	M. Grossman 1/26/79
Conservation	APPROVED FOR ISSUE ☐ NO FILE ☐ FILE CLOSED ☐		
Fire	APPROVED (TITLE 19) (L.A.M.C.-5700) 12/8/78		1-26-79
Housing	HOUSING AUTHORITY APPROVAL		
Planning	APPROVED UNDER CASE #		

PLANS DATED 11/2/78

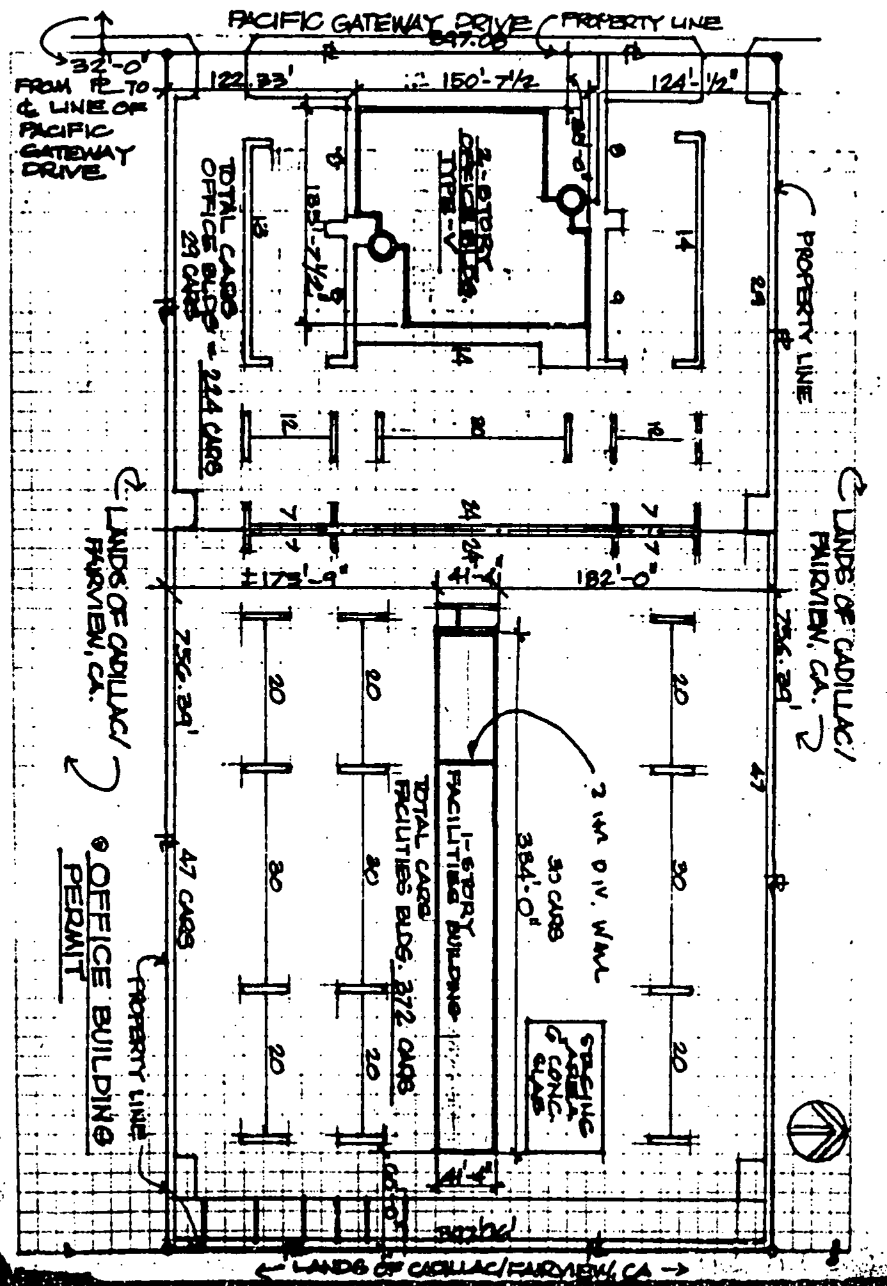
CLINTON DE CADILLAC

". 90732 PHONE (213) 832-1155

OFFICE BLDG = 68   STD = 506
GARAGE BLDG = 27   COMP = 76
95   582

OCC LOADS	DINING ROOM = 97	B-2
	TRAINING ROOM = 56	G-1

CIRCULAR STAIRS VARIANCE PER RF # 784848



CITY OF LOS ANGELES
INSTRUCTIONS: 1. Applica...
1. LEGAL DESCR. LOT 26, 27 ...
2. PURPOSE OF BUILDING ... Repair ...
3. JOB ADDRESS 19310 ...
4. BETWEEN CROSS STREETS 190th St ...
5. OWNER'S NAME Cadillac Fa...
6. OWNER'S ADDRESS 2200 W. Arte...
7. ENGINEER Erkel/Green
8. ARCHITECT OR DESIGNER Group Acron
9. CONTRACTOR Oltmans Cons...
10. BRANCH LENDER
11. SIZE OF NEW BLDG. WIDTH 41' LENGTH 33...
12. MATERIAL OF CONSTRUCTION
13. JOB ADDRESS 19310
14. VALUATION TO INCL EQUIPMENT REQUIR. AND USE PROPOSED
2-of
PURPOSE OF BUILDING Repair Garage
TYPE V
DWELL UNITS NC
GUEST ROOMS —
SPRINKLERS REQ'D SPECIFIED No
P.C. 3907.37
P.C. NO. B-1798
PERMIT EXPIRES TWO YEARS AFTER ...
CASHIER'S USE ONLY
Nov. 1
"This permit is an applicat... of the work specified herein. ... izing or permitting the viola... Angeles, nor any board, dep... for the performance or resul... which such work is performed."
Signed
(Owner or Agent) ALSO, sign stateme...
Bureau of Engineering
SEWERS SFC
Conservation | Fire | Housing | Planning | Traffic
SFC NOT APP. | APPROVED FC | APPROVED (F) | HOUSING AUTH | APPROVED UN | APPROVED TO

3907.37
4035.85
NOT COMMENCED
TYPIST ...cak
INSPECTOR
...eskovich
San Pedro
BF 784848
... 14332
2921.00

4-26-79

G3 CITY OF LOS ANGELES

APPLICATION TO ADD OR ALTER ACTIVE GRADING PERMIT

DEPT. OF BUILDING AND SAFETY

INSTRUCTIONS: 1. Applicant to Complete Numbered Items only. 2. Plot Plan Requested on Back of Original.

1. LEGAL DESCR. LOT 26,27 Pr. 28,22,23,21 BLK. TRACT 4671		CENSUS TRACT 2921.00
2. JOB ADDRESS Rosemead St. Vacated 19310 Pacific Gateway Dr.		DIST. MAP 7940
3. BETWEEN CROSS STREETS Knox St. AND 190th St.		ZONE M03-1
4. PURPOSE OF GRADING CHANGE NO FEE Correct Permit Number of Previous Permit		FIRE DIST. II
5. OWNER Cadillac Fairview/Calif. Inc.	PHONE 637-0777	LOT (TYPE)
6. OWNER'S ADDRESS 2200 W. Artesia Blvd.	P.O. BOX Compotor ZONE 90220	LOT SIZE See Map
7. PLANS BY Paul Ash CIVIL ENG.	STATE LICENSE 21499 PHONE 751-7373	
8. FOUNDATION ENGINEER Converse Davis Dixon	STATE LICENSE PHONE 772-2151	ALLEY
9. GEOLOGIST	PHONE	BLDG. LINE
10. CONTRACTOR Millie - Severson	STATE LICENSE PHONE	AFFIDAVITS
11. CONTRACTOR'S ADDRESS	STATE LICENSE PHONE	
12. LENDER	BRANCH OFFICE PHONE	

G3

13. JOB ADDRESS 19310 Pacific Gateway Dr.		DISTRICT OFFICE San Pedro
14. NUMBER CUBIC YARDS ADDED CUT FILL	YARDAGE APPROVED	GRADING
15. COMPACTED FILLS YES NO RETAINING WALL REQUIRED YES NO	APPLICATION CHECKED [signature]	CRIT. SOIL
16. NEW WORK: (Describe) NO FEE - Dept. Error To show Correct permit number	PLANS CHECKED	HIGHWAY DED.
	PLANS APPROVED	FLOOD
	APPLICATION APPROVED [signature]	CONS.
ADDITIONAL BOND REQUIRED ☐ AMOUNT ☐ CASH ☐ SURETY POSTED	EXISTING BOND PERMIT NO. —	ZONED BY Nixt
		FILE WITH 59962
P.C. No. — APPROVED SOIL TESTING AGENCY	BOARD FILE #	INSPECTOR [signature]

P.C.	S.P.C.	G.P.I.	G.P.	I.F.	TYPIST
—			—		

PLAN CHECK EXPIRES SIX MONTHS AFTER FEE IS PAID. PERMIT EXPIRES ONE YEAR AFTER FEE IS PAID OR SIX MONTHS AFTER FEE IS PAID IF CONSTRUCTION IS NOT COMMENCED.

CASHIER'S USE ONLY

APR-27-79 07:48 R — 3 IF 0.00

GP

B45 8-1 8-1-71

STATEMENT OF RESPONSIBILITY

I certify that in doing the work authorized hereby I will not employ any person in violation of the Labor Code of the State of California relating to workmen's compensation insurance.

"This permit is an application for inspection, the issuance of which is not an approval or an authorization of the work specified herein. This permit does not authorize or permit, nor shall it be construed as authorizing or permitting the violation or failure to comply with any applicable law. Neither the City of Los Angeles, nor any board, department, officer or employee thereof make any warranty or shall be responsible for the performance or results of any work described herein, or the condition of the property or soil upon which such work is performed." (See Sec. 91.0202 L.A.M.C.)

Signed Armando Martinez [signature] (Owner or Agent)

I certify that all of the land included in the Tentative Tract Map is under my ownership or land on which offsite rights have been granted.

Signed (Owner or Agent)

		Name	Date
Bureau of Engineering	ADDRESS APPROVED		
	DRIVEWAY APPROVED		
	FLOOD CLEARANCE APPROVED		
	DRAINAGE TO WATERCOURSE APPROVED		
	GRADING IN WATERCOURSE APPROVED		
	GRADING ON PUBLIC PROPERTY APPROVED		
Plumbing	SPRINKLER SYSTEM APPROVED		
Planning	APPROVED UNDER CASE #		

Address of Building 19310 Pacific Gateway

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

Note: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained or made known to the undersigned, the vacant land, building, or portion of a building described below and located at the above address complies with the applicable construction requirements (Chapter 9) and/or the applicable zoning requirements (Chapter 1) of the Los Angeles Municipal Code for the use, or occupancy group in which it is classified.

Issued 2/28/80 Permit No. and Year SP60612/79

Two story, Type V, 135'x150'2", office building and employee dining room (97 occupancy). 68 parking spaces required. 582 provided. Circular exit stairs variance per B.F. #784848, G-1/B-2 occupancy.

0 1 1 0 0 3 0 0 2 3 1

Owner Cadillac Fairview

Owner's Address 2200 W. Artesia Blvd.
Compton, California 90220

Form B-95b

BY R. V. KELLAM dp

Address of Building 19310 Pacific Gateway

CITY OF LOS ANGELES

CERTIFICATE OF OCCUPANCY

Note: Any change of use or occupancy must be approved by the Department of Building and Safety.

This certifies that, so far as ascertained or made known to the undersigned, the vacant land, building or portion of a building described below and located at the above address complies with the applicable construction requirements (Chapter 9) and/or the applicable zoning requirements (Chapter 1) of the Los Angeles Municipal Code for the use, or occupancy group in which it is classified.

Issued 3/26/80 Permit No. and Year SP60613/79

One story, Type V, 41'x334', repair garage, storage and training room (49 occupancy).

Twenty-seven required parking spaces provided.

F-1/G-1 occupancy. 0 1 1 0 0 3 0 0 2 3 3

Owner Cadillac Fairview

Owner's Address 2200 West Artesia Boulevard
Compton, California 90220

Form B-95b

BY

3 FOR INSPECTION

REPAIR-DEMOLISH AND FOR CERTIFICATE OF OCCUPANCY

INSTRUCTIONS: 1. Applicant to Complete Numbered Items Only.

1. LEGAL DESCR: LOT 27	BLOCK --	TRACT 4671	COUNCIL DISTRICT NO 15	DIST MAP 57B197
				CENSUS TRACT 2921
2. PRESENT USE OF BUILDING 13 TRAINING ROOM/STORAGE Garage		NEW USE OF BUILDING 13 same & Conference Rm		ZONE M3-1
3. JOB ADDRESS 19310 Pacific Gateway Dr				FIRE DIST two
4. BETWEEN CROSS STREETS 190th St		AND Knox St		LOT TYPE --
5. OWNER'S NAME Pacific Bell		PHONE 818-578-2175		LOT SIZE inc legal
6. OWNER'S ADDRESS 177 E Colorado Bl	CITY Pasadena	ZIP 91105		
7. ENGINEER Farnad/Tabibzadeh	BUS LIC NO. 2138	ACTIVE STATE LIC NO 393-5939	PHONE	ALLEY --
8. ARCHITECT OR DESIGNER Rain Architecture	BUS LIC NO CO15278	ACTIVE STATE LIC NO 622-4993	PHONE	BLDG LINE --
9. ARCHITECT OR ENGINEER'S ADDRESS 818 W 7th St	CITY LA	ZIP 90017		AFFIDAVITS crit soil
10. CONTRACTOR	BUS LIC NO	ACTIVE STATE LIC NO	PHONE	

11. SIZE OF EXISTING BLDG WIDTH 41-4 LENGTH 334	STORIES 1	HEIGHT 14'	NO OF EXISTING BUILDINGS ON LOT AND USE 2-storage & office	P C REQD no (F)
12. CONST MATERIAL OF EXISTING BLDG →	EXT WALLS conc block	ROOF wood	FLOOR conc	
13 JOB ADDRESS 19310 Pacific Gateway Dr			STREET GUIDE	DISTRICT OFFICE SF
14. VALUATION TO INCLUDE ALL FIXED EQUIPMENT REQUIRED TO OPERATE AND USE PROPOSED BUILDING	$ 50,000.00			SEISMIC STUDY ZONE --
15. NEW WORK (Describe) interior remodel: new finishes, partitions. CHANGE OF OCCUPANCY				GRADING yes / FLOOD -- / HWY. LIN -- / CONS --

NEW USE OF BUILDING (13) Same & Conference Rm	SIZE OF ADDITION -- N/A	STORIES /	HEIGHT	ZONED BY J H
TYPE Y	GROUP OCC A3/H4/B1	FLOOR AREA ~~B2~~ N/A TOTAL	PLANS CHECKED LAURENCE C LEE	FILE WITH
DWELL UNITS N/A	MAX OCC +84		APPLICATION APPROVED Laurence C. Lee	TYPIST Trm
GUEST ROOMS N/A	PARKING REQ'D +53/27	PARKING PROVIDED STD 257 COMP 85	INSPECTION ACTIVITY COMB (GEN) MAJS CONS EC	INSPECTOR

P C 22545	GPI not req'd	CONT INSP	B & S B-3 (R 5 86)
SPC	PM		
BP 267.00	EI 35.00	Claims for refund of fees paid on permits must be filed 1. Within one year from date of payment of fee, or 2. Within one year from date of expiration of extension for building or grading permits granted by the Dept of B & S SECTIONS 22.12 & 22.13 LAMC	
TF --	SM 110.00		
S P NOT REQ'D	OS NOT REQ'D		
DIST OFFICE SP	SCSS	SPRINKLERS REQ'D SPEC	
P C NO	CO	ENERGY NO.	

PLAN CHECK EXPIRES ONE YEAR AFTER FEE IS PAID. PERMIT EXPIRES TWO YEARS AFTER FEE IS PAID OR 180 DAYS AFTER FEE IS PAID IF CONSTRUCTION IS NOT COMMENCED.

CASHIER'S USE ONLY

DECLARATIONS AND CERTIFICATIONS

LICENSED CONTRACTORS DECLARATION

16. I hereby affirm that I am licensed under the provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Date _____ Lic Class _____ Lic Number _____ Contractor _____ (Signature)

OWNER-BUILDER DECLARATION

17. I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code): Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property, who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)

☑ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) pursuant to the Contractor's License Law.)

☐ I am exempt under Sec. _____ B & P C for this reason _____

Date 3/24/87 Owner's Signature _____

WORKERS' COMPENSATION DECLARATION

18. I hereby affirm that I have a certificate of consent to self insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C).

Policy No _____ Insurance Company _____

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the Los Angeles City Dept. of Bldg. & Safety.

Date _____ Applicant's Signature _____

Applicant's Mailing Address _____

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

19. I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Date 3/24/87 Applicant's Signature _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you shall become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

20. I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name _____ Lender's Address _____

21. I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

I realize that this permit is an application for inspection, that it does not approve or authorize the work specified herein, that it does not authorize or permit any violation or failure to comply with any code or law, that neither the city of Los Angeles nor any board, department, officer or employee thereof make any warranty or shall be responsible for the performance or results of any work described herein or the condition of the premises [illegible]

1

C-8

CITY OF LOS ANGELES

APPLICATION FOR INSPECTION OF NEW BUILDING AND FOR CERTIFICATE OF OCCUPANCY

B&S B-1 — R8.77

DEPT. OF BUILDING AND SAFETY

INSTRUCTIONS: 1. Applicant to Complete Numbered Items Only. 2. Plot Plan Required on Back of Original.

1. LEGAL DESCR. LOT 26 27 FRAC 22 & ROSEMEAD FRAC 23 (VACATED) BLK. TRACT 4671

DIST. MAP 7940

CENSUS TRACT 2921.00

2. PURPOSE OF BUILDING 08 Repair Garage & Storage

ZONE M3-1

3. JOB ADDRESS 19310 ~~19900~~ Pacific Gateway Drive

FIRE DIST. II

4. BETWEEN CROSS STREETS 190th St. AND Knox

LOT (TYPE)

5. OWNER'S NAME Cadillac Fairview PHONE 637-0777

LOT SIZE

6. OWNER'S ADDRESS 2200 W. Artesia Blvd. CITY Compton ZIP 90220

7. ENGINEER Erkel/Green Field BUS. LIC. NO. ACTIVE STATE LIC. NO. SE 883 PHONE 278-8133

ALLEY

8. ARCHITECT OR DESIGNER Group Acron BUS. LIC. NO. ACTIVE STATE LIC. NO. C-5847 PHONE 689-4411

BLDG. LINE

9. CONTRACTOR Oltmans Const. BUS. LIC. NO. ACTIVE STATE LIC. NO. 86393 PHONE 576-8474

AFFIDAVITS

10. BRANCH LENDER ADDRESS CITY

11. SIZE OF NEW BLDG. WIDTH 41' LENGTH 334' STORIES 1&2 HEIGHT 22 NO OF EXISTING BUILDINGS ON LOT AND USE None

12. MATERIAL OF CONSTRUCTION EXT. WALLS Masonry ROOF Wood FLOOR Conc./Wd.

SEISMIC STUDY ZONE

1

13. JOB ADDRESS 19310 ~~19900~~ Pacific Gateway Drive

DIST. OFFICE San Pedro

14. VALUATION TO INCLUDE ALL FIXED EQUIPMENT REQUIRED TO OPERATE AND USE PROPOSED BUILDING $ 291,000.00

CRIT. SOIL

2 of 2 Total Val. $1,791,000.00

GRADING

HIGHWAY DED. NO

PURPOSE OF BUILDING (08) Repair Garage & Storage STORIES 1&2 HEIGHT 22

FLOOD

TYPE V GROUP OCC. G-1/F-1 BLDG. AREA 13,400 PLANS CHECKED

CONS.

DWELL. UNITS NC MAX. OCC. TRAINING ROOM = 49 TOTAL PLANS APPROVED

ZONED BY Breskovich

GUEST ROOMS — PARKING REQ'D 27 PARKING PROVIDED STD. 56 COMP. 0 GR APPLICATION APPROVED

FILE WITH

SPRINKLERS REQ'D SPECIFIED NO CONT. INSP. LIC GUI LAM

INSPECTION ACTIVITY COMB GEN MAS. XX CONS

INSPECTOR M

P.C.	S.P.C.	B.P.	T.I.	P.H.	I.F.	G.P.I.	C/O	O.S.
3907.37		1016 95		20 34				

P.C. NO. B-1798 WORKER'S COMPENSATION INSURANCE CERTIFICATE ON FILE EXEMPT (SEE OVER) Energy: 10% TYPIST cak

PERMIT EXPIRES TWO YEARS AFTER FEE IS PAID OR 180 DAYS AFTER FEE IS PAID IF CONSTRUCTION IS NOT COMMENCED.

CASHIER'S USE ONLY

Nov. 1, 1978 03325 P-6CK 3,907.37

13P

FEB-15-79 0 0 7 2 CK 1,037.29

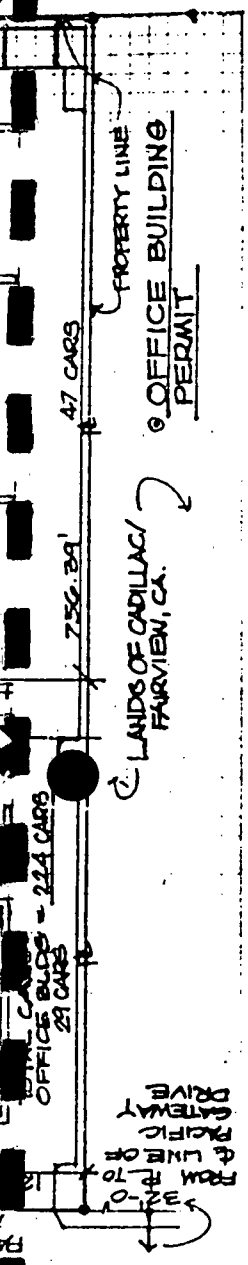
LIMIT OF PERMIT

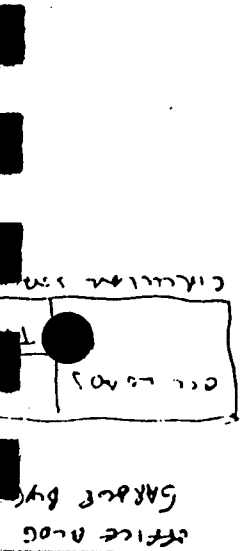
"This permit is an application for inspection, the issuance of which is not an approval or an authorization of the work specified herein. This permit does not authorize or permit, nor shall it be construed as authorizing or permitting the violation or failure to comply with any applicable law. Neither the City of Los Angeles, nor any board, department, officer or employee thereof make any warranty or shall be responsible for the performance or results of any work described herein, or the condition of the property or soil upon which such work is performed." (See Sec. 91.0202 L.A.M.C.)

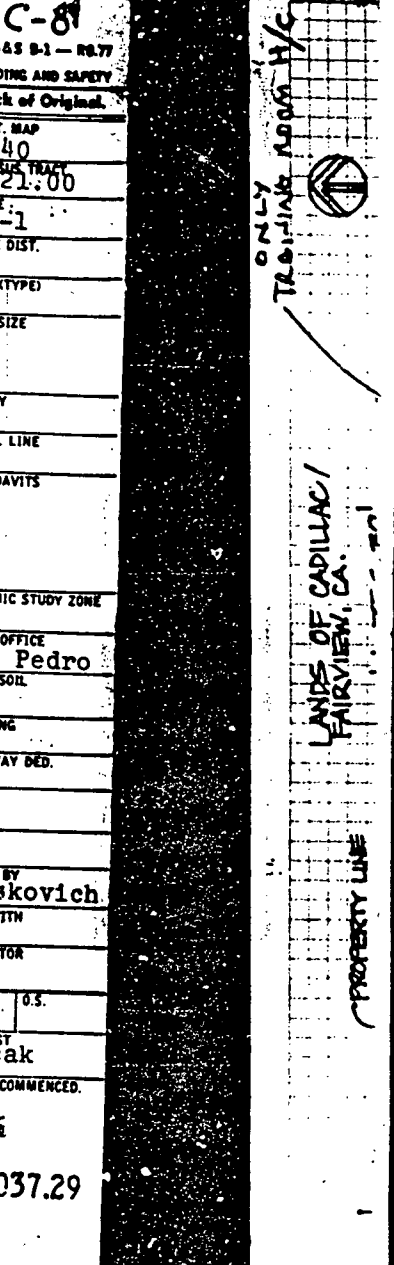
Signed (Owner or Agent having Property Owner's Consent)

ALSO, sign statement on reverse side, if applicable.

			Signature/Date
Bureau of Engineering	ADDRESS APPROVED		M. GROSSMAN 1/26/79
	DRIVEWAY		M. GROSSMAN 1/26/79
	HIGHWAY DEDICATION	REQUIRED	
		COMPLETED	
	FLOOD CLEARANCE		
	SEWERS SFC DUE $40.00 Y.G	X SEWERS AVAILABLE	M. GROSSMAN 1/26/79
		NOT AVAILABLE	
		SFC PAID	
	SFC NOT APPLICABLE	X SFC DUE	M. GROSSMAN 1/26/79
Conservation	APPROVED FOR ISSUE ☐ NO FILE ☐ FILE CLOSED ☐		
Fire	APPROVED (TITLE 19 L.A.M.C. 5700)		1/26/79
Housing	HOUSING AUTHORITY APPROVAL		
Planning	APPROVED UNDER CASE		







C-8

B&S B-1 — R8.77

...DING AND SAFETY

...k of Original.

...MAP

7940

...CENSUS TRACT

...21.00

...-1

...FIRE DIST.

II

...OT (TYPE)

...SIZE

...LINE

...FFIDAVITS

...ISMIC STUDY ZONE

...OFFICE

Pedro

...T. SOIL

...BY

...eskovich

...WITH

...TOR

...O.S.

...ak

...COMMENCED

...76

...037.29

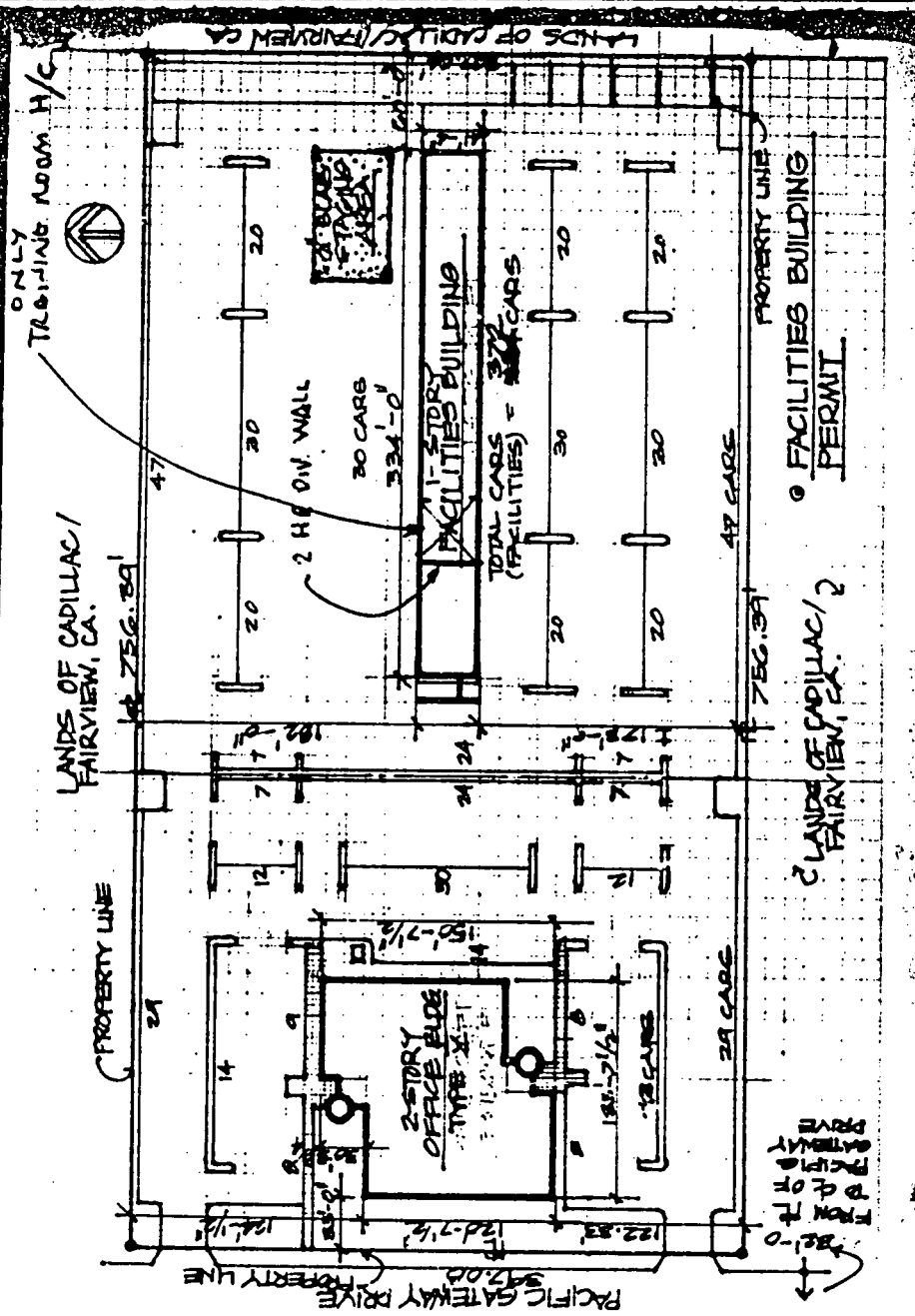
...horization ...s author- ...City of Los ...responsible ...soil upon

...1/26/77

...1/26/77

...-/77

...-/77



3 APPLICATION F...

CITY OF LOS ANGELES

INSTRUCTIONS: Applica...

1. LEGAL DESCR.	LOT
2. PRESENT USE OF BUILDING	(17) Restaura...
3. JOB ADDRESS	802 Gardena B...
4. BETWEEN CROSS STREETS	Ainsowrth
5. OWNER'S NAME	Peter Fernand...
6. OWNER'S ADDRESS	120 Hill St.
7. ENGINEER	
8. ARCHITECT OR DESIGNER	
9. CONTRACTOR	Not Selected
10. BRANCH LENDER	
11. SIZE OF EXISTING BLDG. WIDTH 44'6" LENGTH 44'6...	
12. CONST. MATERIAL OF EXISTING BLDG.	EXT. W...
3 13. JOB ADDRESS	802 ...
14. VALUATION TO INCLUDE EQUIPMENT REQUIRED T... AND USE PROPOSED BUI...	
15. NEW WORK: (Describe)	Wood fr... 48' x 91' & in...
NEW USE OF BUILDING	Restaurant
TYPE V	GROUP OCC. B-2...
DWELL. UNITS 0	MAX OCC.
GUEST ROOMS	PARKING REQ'D
SPRINKLERS REQ'D SPECIFIED	CONT. INSP.
P.C.	S.P.C.
P.C. NO.	WORKER'S COM... ON FILE

PERMIT EXPIRES TWO YEARS AFT...

CASHIER'S USE ONLY

"This permit is an applic... zation of the work specified h... authorizing or permitting the ... Angeles, nor any board, depar... for the performance or results ... which such work is performed."

Signed ...

(Owner or Agent Rev... ALSO, sign statement...

Bureau of Engineering

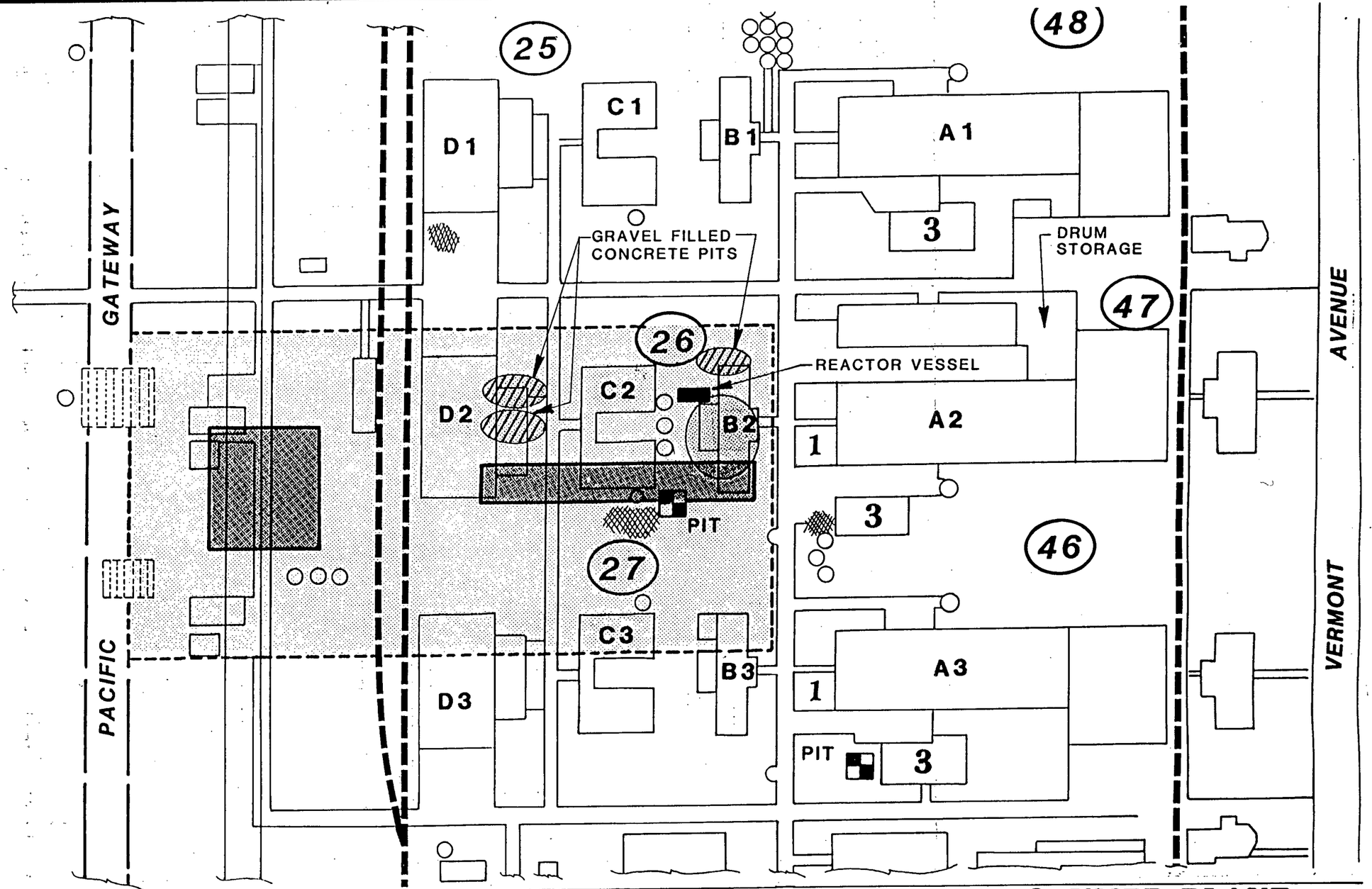
SEWERS

	SFC NOT APPLI...
Conservation	APPROVED FOR
Fire	APPROVED (TITL...
Housing	HOUSING AUTHO...
Planning	APPROVED UNDE...
Traffic	APPROVED FOR

PARTIALLY SCANNED
OVERSIZE ITEM(S)

See document # 2307327
for partially scanned image(s).

For complete hardcopy version of the oversize document
contact the Region IX Superfund Records Center



LEGEND:

1. Operating tanks
2. Seperator building
3. Rubber laboratories

(25) Lot number

Concrete pit

Above ground tank location

Stained area

Areas of deep backfill

Existing facility buildings

Approximate location of existing Pacific Bell facility property

Railroad tracks

POLYMERIZATION BUILDINGS:

A1, A2, A3: Manufacturing
B1, B2, B3: Latex recovery
C1, C2, C3: Polymer processing unit
D1, D2, D3: Warehousing

REFERENCE:

Los Angeles City Department of Building and Safety, 19201 South Vermont Avenue, Permit No. 34346.

NOTE:

Location of 19310 Pacific Gateway property estimated from aerial photograph interpretation.

0 100 200
SCALE IN FEET

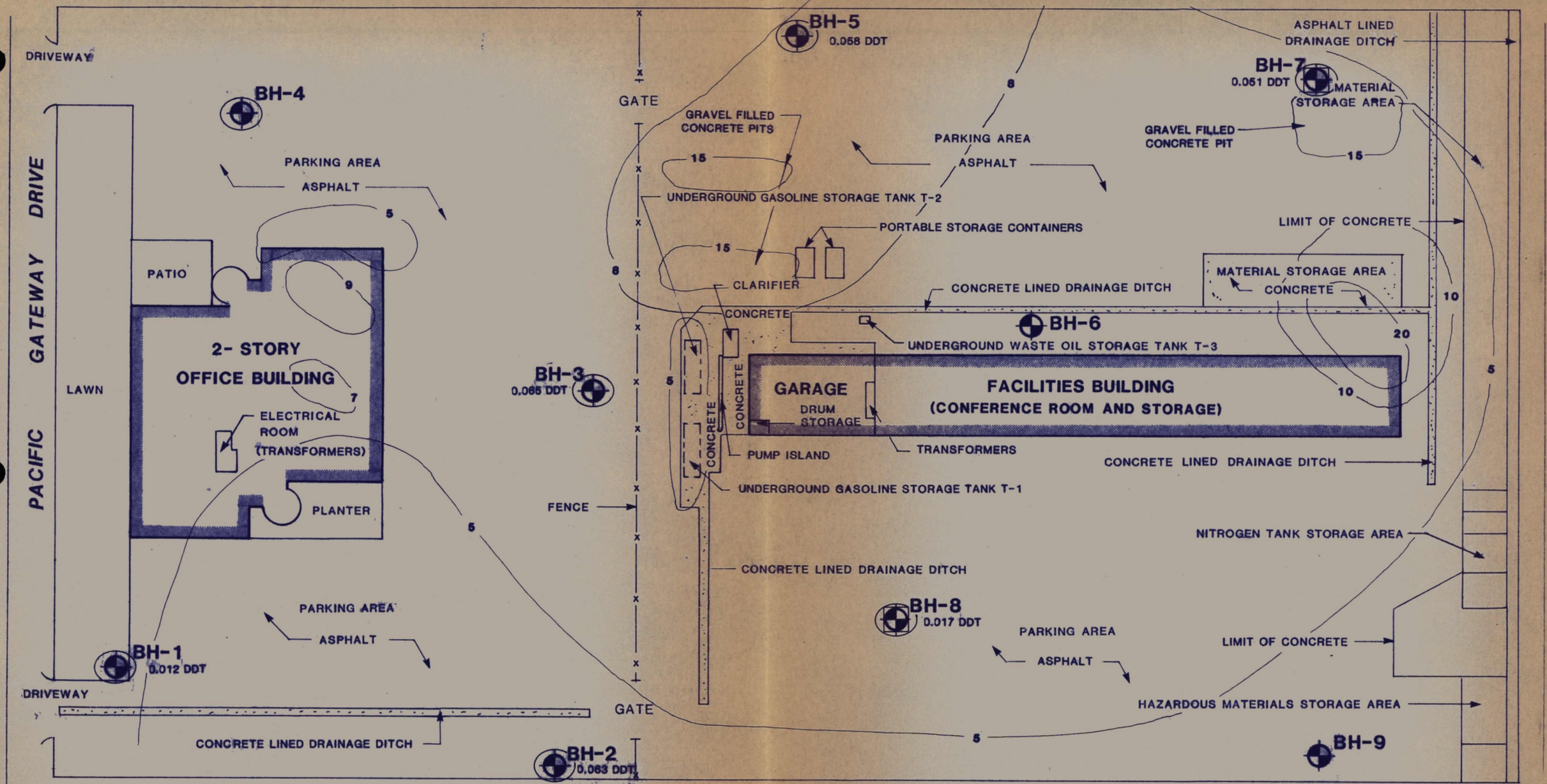
SITE PLAN DETAIL: FORMER POLYMER PLANT

SHELL CHEMICAL COMPANY POLYMER PLANT
19201 South Vermont Avenue
Los Angeles, California
(19310 Pacific Gateway Drive)

Converse Environmental West

Scale	as shown
Date	7/24/90
Prepared By	AV
Checked By	MSG
Approved By	JLB
Project No.	90-41-416-01
Figure No.	6

MODERN PASADENA BLUEPRINT / 99934



GRADING PLAN FOR PRESENT FACILITY

PACIFIC BELL
19310 Pacific Gateway Drive
Los Angeles, California

Converse Environmental West

Scale	as shown
Date	7/24/90
Prepared By	AHW
Checked By	MSG
Approved By	JLB
Project No.	90-41-416-01
Figure No.	5

MODERN PASADENA BLUEPRINT / 99934

CALIFORNIA

CRM FRATT
GENERAL MANAGER

DEPARTMENT OF
BUILDING AND SAFETY
400 CITY HALL
LOS ANGELES, CALIF. 90012

TOM BRADLEY
MAYOR

Cadillac Fairview/California, Inc.
2200 West Artesia Blvd.
Compton, CA 90220

LOCATION: 19310 Pacific Gateway Drive
TRACT : 4571 & Vacated Rosemead St.
LOTS HAVING COMPACTED FILL: 21,22,23,26,27&28

DATE : April 2, 1979
PERMIT: SP 59967/78
D M # : 7940

SUBJECT: PRIMARY STRUCTURAL FILL - Office Bldg. Only

Fill soil classification, per Table 28-A Clayey silt

Approval is granted for compacted fill constructed on the above lots as described in the compaction report No. * dated February 26, 1979, prepared by Converse Ward Davis Dixon . *78-2351-04

Approval is limited to the area shown in the report and by the following requirements:

A. Compacted fill shall extend beyond the footings a minimum distance equal to the depth of fill below the footings.
B. Footing bearing pressure for all structures shall not exceed a value of ** lbs. per sq. ft. at ** inches minimum, below approved compacted surface.
C. Continuous footings per Code Section 91.3012 are required.
D. Dwelling foundations located partially or wholly upon compacted fill ground shall meet the requirements of Section 91.3012.
E. Slope erosion control, planting, and irrigation of fill slopes, and runoff control are required as per Code Section 91.3007.
F. Building or structure footings shall be set back 5 feet from the face of slopes 20 feet or less in vertical height where the slope angle is between 1½ horizontal to 1 vertical and 2 horizontal to 1 vertical. Where the vertical height of slope exceeds 20 feet and the slop angle is as described above, the set back shall be increased 1 foot for each additional 5 feet in vertical height over 20 feet to a maximum set back of 10 feet. For slopes exceeding 100 feet in vertical height the set back shall be 40 feet except as permitted in Code Section 91.3009(c).

**2000#/sq. ft. (strip footings), 1750#/sq. ft. (sq. footings), and 2500#/sq. ft. (columns) @ 18" exterior footings & 12" interior footings.

JOHN O. ROBB
Chief of Grading Division

By [signature]
Grading Engineer
485-3835

cc: Converse Ward Davis Dixon
SP Inspection - Fierro

PH:mra

B&S B-142 R4.78

CITY OF LOS ANGELES
CALIFORNIA

CK M. FRATT
CHIEF MANAGER

DEPARTMENT OF
BUILDING AND SAFETY
402, CITY HALL
LOS ANGELES, CALIF. 90012

TOM BRADLEY
MAYOR

Cadillac Fairview/Calif. Inc.
2200 West Artesia Blvd.
Compton, CA 90220
Attn.: Mr. Charlie Mitchell

LOCATION: 19310 Pacific Gateway Drive
TRACT : 4671 & Vacated Rosemead Street
LOTS HAVING COMPACTED FILL: 21, 22, 23, 26, 27 & 28

DATE : 5/7/79
PERMIT: 61136 P/79
D M # : 7940

SUBJECT: PRIMARY STRUCTURAL FILL Office Building

Fill soil classification, per Table 28-A Clayey silt

Approval is granted for compacted fill constructed on the above lots as described in the compaction report No. # dated April 11, 1979, prepared by Converse Ward Davis Dixon #78-2351-04

Approval is limited to the area shown in the report and by the following requirements:

A. Compacted fill shall extend beyond the footings a minimum distance equal to the depth of fill below the footings.
B. Footing bearing pressure for all structures shall not exceed a value of * lbs. per sq. ft. at ** inches minimum, below approved compacted surface.
C. Continuous footings per Code Section 91.3012 are required.
D. Dwelling foundations located partially or wholly upon compacted fill ground shall meet the requirements of Section 91.3012.
E. Slope erosion control, planting, and irrigation of fill slopes, and runoff control are required as per Code Section 91.3007.
F. Building or structure footings shall be set back 5 feet from the face of slopes 20 feet or less in vertical height where the slope angle is between 1½ horizontal to 1 vertical and 2 horizontal to 1 vertical. Where the vertical height of slope exceeds 20 feet and the slop angle is as described above, the set back shall be increased 1 foot for each additional 5 feet in vertical height over 20 feet to a maximum set back of 10 feet. For slopes exceeding 100 feet in vertical height the set back shall be 40 feet except as permitted in Code Section 91.3009(c).

* 2000 (strip footing) ; 1750 (sq. footing) & 2500 (columns) @
** 18" (exterior footing) & 12" (interior footing).

JOHN O. ROBB
Chief of Grading Division

By [signature]
Grading Engineer
485-3435
PN:ga

cc: Converse Ward Davis Dixon
SP - Insp./Fierro

B&S B-142 R4.78

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY

ENGINEER'S CERTIFICATE OF COMPLIANCE FOR COMPACTED EARTH FILLS

LOCATION OF FILL: TRACT NO. 4671 LOT NOS. 21, 22, 23, 26, 27 & 28

JOB ADDRESS: 19310 Pacific Gateway Drive

SOIL TESTING AGENCY: CONVERSE WARD DAVIS DIXON

PROPERTY OWNER'S NAME: CADILLAC Fairview/CALIFORNIA, INC.

OWNER'S ADDRESS: 2200 West Artesia, Compton, California

PER REPORTS ON OUR PROJECT NO. 78-2351-04

DATE WORK STARTED ON PROJECT: 12-4-78

DATE FILL WAS COMPLETED: 2-19-79

DATE OF THIS CERTIFICATE: 2-26-79

TO THE SUPERINTENDENT OF BUILDING:

*I hereby certify that I have personally inspected and tested the placing of compacted earth fill on the above described property, and on the basis of these inspections and tests it is my opinion that the same was placed in conformity with the requirements of the Los Angeles City Building Code.

James M Bell

Civil Engineer
California Certificate No. 11519

*For the purpose of this Certificate, to "have personally inspected and tested" shall include inspection and testing performed by any person responsible to the licensed engineer signing this certificate. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the licensed engineer whose signature is affixed thereon.

X B&S G-22 4.67

12662

ConverseWardDavisDixon
Geotechnical Consultants

February 26, 1979

Cadillac Fairview/California, Inc.
2200 West Artesia Boulevard
Compton, California 90220

Attention: Mr. Charlie Mitchell

Subject: Project No. 78-2351-04, Proposed Pacific Telephone Building, 19310 Pacific Gateway Drive, Los Angeles, California

Gentlemen:

This is to report the results of tests and observations made during the recent grading in the vicinity of the office building at the Pacific Telephone site. The grading in the remainder of the site is currently underway and will be reported upon completion.

A foundation investigation was performed at this site by Converse Ward Davis Dixon in June 30, 1978 (Project No. 78-2223-01). A supplemental letter was dated September 27, 1978. The City of Los Angeles Department of Building and Safety approved these reports in their letter dated January 19, 1979.

Tests and observations during the grading operation were provided by a representative of Converse Ward Davis Dixon to check the grading contractor on compliance with the drawings and job specifications. The presence of our field representative at the site was to provide to the owner a continuing source of professional advice, opinions and recommendations based upon the field representative's observations of the contractor's work and did not include any superintending, supervision or direction of the actual work of the contractor or the contractor's workmen. The opinions and recommendations presented hereafter are based on our tests and observations of the grading procedures used, and represent our engineering judgment as to the contractor's compliance with the drawings and job specifications.

12100500084

Converse Ward Davis Dixon, Inc.
1440 South State College Blvd.
Post Office Box 6288
Anaheim, California 92806
714 772-2151 213 681-1121

The grading operation was observed to be performed in the following manner:

1. Surface structures, vegetation, trash and miscellaneous debris were cleared from the area to be graded.

2. All subsurface structures encountered, including footings and pipes, were removed with the building area. The zone of removal extended outside the building line a distance at least equal to the depth of fill.

3. The ends of pipes left in place outside the building area were sealed in order to avoid migration of water through the pipe and into the fill.

4. Unsatisfactory soils, old fill and buried trash and debris within the building area were excavated to expose competent materials on which to start the fill.

5. Approved soils were placed in layers on the prepared surface and each layer was compacted before the next layer was added.

6. The limits and depths of the compacted fill is shown on Drawing No. 1.

7. The soils used in the compacted fill consisted of on-site and imported clayey silt and crushed gravel.

Field density tests were made during the placement of fill to determine the degree of compaction and moisture content. Where tests or field observations indicated less than 90 percent compaction, additional compactive effort with adjustment of the moisture content where necessary was performed before the next layer was added. All field density tests are listed in Table I and their approximate locations are shown on Drawing No. 1.

1 2 1 0 0 6 0 0 0 8 5

The maximum dry density and optimum moisture content of representative soil samples were determined in our laboratory using the A.S.T.M. D1557-70 test method. The results of these tests are presented in Table II.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our tests, on observations of the construction procedures and on our experience, it is our opinion that the grading described above was performed in accordance with our recommendations, the applicable portions of the job specifications and the applicable portions of the City of Los Angeles letter of January 19.

In our opinion, the design recommendations presented in our June 30, 1978 report, including the 2000, 1750, and 2500 psf allowable bearing values are applicable to this compacted fill.

The recommendations in this report apply only to the building pad in its present configuration. Any changes should be evaluated by a soils engineer.

The findings and recommendations of this report were prepared in accordance with generally accepted professional principles and practice in the fields of soil mechanics and foundation engineering. This warranty is in lieu of all other warranties, either express or implied.

Thank you for the opportunity to be of service on this project. If you have any questions, please call Mr. Don Coduto of our office.

Respectfully submitted,

CONVERSE WARD DAVIS DIXON

By Donald P. Coduto
Donald P. Coduto
Staff Engineer

Reviewed and Approved:

James M. Bell
James M. Bell, R.C.E. 11519
Chief Engineer

DPC/JMB:bl
Dist: (4) Addressee
(2) City of Los Angeles, Dept. of Bldg. & Safety (San Pedro Office), Attn: Mr. Sy Fierro
(1) Psomas & Assoc., Irvine; Attn: Mr. Pete Van Riper
(1) Oltmans Construction Co.; Attn: Mr. Steve Welsh
(1) Mr. Tom Streit
Encl: Tables I and II
Drawing No. 1

1210060086

TABLE OF TEST RESULTS

TABLE I
FIELD DENSITY TESTS

Test Date	Location of Test	Approx. Elevation of Test (Feet)	Approx. Depth of Fill Below Test (Feet)	(1) Dry Density (p.c.f.)	Field Moisture Content Percent of Dry Weight	(2) Soil Type	Percent Compaction
1/4/79	West of office bldg.	34.0	1.0	112	11.6	2	91
1/4/79	West of office bldg.	36.0	3.0	112	13.3	2	91
1/25/79	East side of office bldg.	35.0	1.5	115	11.6	2	93
1/25/79	Noreast side of office bldg.	33.5	2.0	113	12.2	2	92
1/25/79	Southwest of office bldg.	38.0	2.5	111	13.1	2	90
1/25/79	Northeast of office bldg.	35.5	4.0	111	11.8	2	90
1/26/79	Northwest of office bldg.	37.0	3.5	111	12.2	1	93
1/26/79	South of office bldg.	37.0	2.6	115	13.4	2	94
1/26/79	West of office bldg.	37.0	1.0	114	12.1	2	93
1/26/79	North of office bldg.	35.0	2.0	113	13.8	2	92
1/26/79	North of office bldg.	38.0	5.0	114	13.3	2	92
1/29/79	West of office bldg.	35.5	2.0	114	12.6	2	93
2/20/79	North of office bldg.	39.0	5.0	116	13.9	2	94
2/20/79	Southeast of office bldg.	40.2	4.0	112	14.6	2	91
1/30/79	West of office bldg.	37.0	4.0	135	7.2	3	99
2/13/79	West of office bldg.	36.0	2.0	110	14.3	2	90
2/13/79	East of office bldg.	37.0	3.0	112	13.8	2	91
2/19/79	South of office bldg.	38.0	2.0	110	13.2	2	90

Notes:

Density of the compacted fill was determined in the field by the A.S.T.M. D1556-64 sand cone and A.S.T.M. D2937-71 drive cylinder tests. The moisture content of the soil samples obtained from the sand cone and drive cylinder tests was determined using a calcium carbide gas pressure moisture tester.

Soil Type is given on Table II, laboratory Maximum Density Tests.

Field density tests not listed in Table I are located outside the office building area and will be presented in a future report.

TABLE II
LABORATORY MAXIMUM DENSITY TESTS*

Soil Description	Maximum Dry Density, p.c.f.	Optimum Moisture Content - Percent
Brown CLAYEY SILT	120	11.5
Brown CLAYEY SILT	123	11.2
Gray Crushed Miscellaneous Gravel	136	7.0

*A.S.T.M. D1557-70 Test Method.

GRADING MAR 05 1979

CITY OF LOS ANGELES
Department of Building and Safety
GRADING INSPECTOR'S COMPACTION RECORD

GRADING MAR 05 1979

SP 59967/78 — Permit Number
7940 — Dist. Map Number
DEPT. 1-19-79 — ~~Issued File Number~~

Tract 4671 & VACATED ROSEHEAD ST. Lots 21-22 & 23 & 26, 27 & 28

Street Location 19310 PACIFIC GATE WAY DR.

Hillside _____ Flat Hillside _____ Flatland ✓

1. Field Compaction Approved YES

2. Field Compaction Not Approved _____

Fill Lot No.'s 22, 23, 26, 27 & PORTION OF ROSEHEAD (VAC) ST.
All lots not listed above are considered to be cut or natural.

Buttress Fill Lot No.'s _____

Required retaining wall on lot No.'s _____

Lot No.'s having fill over 100 ft. deep _____

_____, to be held until _____

Sub-drain termination lot No.'s _____

Additional Remarks:

① - THIS IS ONLY A PARTIAL COMPACTION REPORT FOR OFFICE BUILDING ONLY.

② READY FOR B142

Inspector Sy Fierro Dist. SAN PEDRO

Date 3/2/79

BAS 8-163 (R1 6/1)

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY

ENGINEER'S CERTIFICATE OF COMPLIANCE FOR COMPACTED EARTH FILLS

LOCATION OF FILL: TRACT NO. 4671 LOT NOS. 21, 22, 23, 26, 27 & 28

JOB ADDRESS: 19310 Pacific Gateway Drive

SOIL TESTING AGENCY: Converse Ward Davis Dixon

PROPERTY OWNER'S NAME: Cadillac Fairview/California, Inc.

OWNER'S ADDRESS: 2200 West Artesia, Compton, California 90220

PERCREPORTS ON OUR PROJECT NO. 79-2351-04

DATE WORK STARTED ON PROJECT: 1/4/79

DATE FILL WAS COMPLETED: 4-7-79

DATE OF THIS CERTIFICATE: 4/11/79

TO THE SUPERINTENDENT OF BUILDING:

*I hereby certify that I have personally inspected and tested the placing of compacted earth fill on the above described property, and on the basis of these inspections and tests it is my opinion that the same was placed in conformity with the requirements of the Los Angeles City Building Code.

James M Bell

Civil Engineer
California Certificate No. 11519

*For the purpose of this Certificate, to "have personally inspected and tested" shall include inspection and testing performed by any person responsible to the licensed engineer signing this certificate. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the licensed engineer whose signature is affixed thereon.

X B&S G-22 4.67

0C8[illegible]8

ConverseWardDavisDixon

Geotechnical Consultants

April 11, 1979

Cadillac Fairview/California, Inc.
2200 West Artesia Boulevard
Compton, California 90220

Attention: Mr. Charlie Mitchell

Subject: Project No. 78-2351-04, Proposed Pacific Telephone Building, 19310 Pacific Gateway Drive, Los Angeles, California

Gentlemen:

This is to report the results of tests and observations made during the recent grading at the Pacific Telephone site. The grading in the vicinity of the office building was discussed in our February 26, 1979 report. This report includes the remainder of the site.

A foundation investigation was performed at this site by Converse Ward Davis Dixon on June 30, 1978 (Project No. 78-2223-01). A supplement letter was dated September 27, 1978. The City of Los Angeles Department of Building and Safety approved these reports in their letter dated January 19, 1979.

Tests and observations during the grading operation were provided by a representative of Converse Ward Davis Dixon to check the grading contractor on compliance with the drawings and job specifications. The presence of our field representative at the site was to provide to the owner a continuing source of professional advice, opinions and recommendations based upon the field representative's observations of the contractor's work and did not include any superintending, supervision or direction of the actual work of the contractor or the contractor's workmen. The opinions and recommendations presented hereafter are based on our tests and observations of the grading procedures used, and represent our engineering judgment as to the contractor's compliance with the drawings and job specifications.

Converse Ward Davis Dixon, Inc.
1440 South State College Blvd.
Post Office Box 6288
Anaheim, California 92806
714 772-2151 213 681-1121

1 2 1 0 0 5 0 0 0 9 0

The grading operation was observed to be performed in the following manner:

1. Surface structures, vegetation, trash and miscellaneous debris were cleared from the area to be graded.

2. All subsurface structures encountered, including footings and pipes, were removed with the building area. The zone of removal extended outside the building line a distance at least equal to the depth of fill. All subsurface structures within one foot of the finished subgrade in the parking area were removed.

3. The ends of pipes left in place outside the building area were sealed in order to avoid migration of water through the pipe and into the fill.

4. Unsatisfactory soils, old fill and buried trash and debris were excavated to expose competent materials on which to start the fill.

5. Approved soils were placed in layers on the prepared surface and each layer was compacted before the next layer was added. Crushed gravel was used in the backfill of vaults and vats.

6. The limits and depths of the compacted fill is shown on Drawing 1.

7. The soils used in the compacted fill consisted of on-site and imported clayey silt and crushed gravel.

Field density tests were made during the placement of fill to determine the degree of compaction and moisture content. Where tests or field observations indicated less than 90 percent compaction, additional compactive effort with adjustment of the moisture content where necessary was performed before the next layer was added. All field density tests are listed in Table I and their approximate locations are shown on Drawing 1.

1 2 1 0 0 6 0 0 0 9 1

The maximum dry density and optimum moisture content of representative soil samples were determined in our laboratory using the ASTM D1557-70 test method. The results of these tests are presented in Table II.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our tests, on observations of the construction procedures and on our experience, it is our opinion that the grading described above was performed in accordance with our recommendations, the applicable portions of the job specifications and the applicable portions of the City of Los Angeles letter of January 19.

In our opinion, the design recommendations presented in our June 30, 1978 report, including the 2000, 1750, and 2500 psf allowable bearing values are applicable to this compacted fill.

The recommendations in this report apply only to the building pad in its present configuration. Any changes should be evaluated by a soils engineer.

The findings and recommendations of this report were prepared in accordance with generally accepted professional principles and practice in the fields of soil mechanics and foundation engineering. This warranty is in lieu of all other warranties, either express or implied.

Thank you for the opportunity to be of service on this project. If you have any questions, please call Mr. Don Coduto of our office.

Respectfully submitted,

CONVERSE WARD DAVIS DIXON

By Donald P. Coduto
Donald P. Coduto
Staff Engineer

Reviewed and Approved:

James M. Bell
James M. Bell, R.C.E. 11519
Chief Engineer

DPC/JMB:bl
Encl: Drawing 1
Tables I and II
Dist: (4) Addressee
(2) City of Los Angeles, Dept. of Bldg. & Safety (San Pedro office) with Certificates - Attn: Mr. Fierro
(1) Psomas & Assoc., Irvine; Attn: Mr. Peter Van Riper
(1) Oltmans Construction Co.; Attn: Mr. Steve Welsh

1 2 1 0 0 6 0 0 0 9 2

Illac Fairview/California, Inc.
ject No. 73-2351-04

TABLE OF TEST RESULTS

TABLE I
FIELD DENSITY TESTS

Test Date	Location of Test	Approx. Elevation of Test (Feet)	Approx. Depth of Fill Below Test (Feet)	(1) Dry Density (p.c.f.)	Field Moisture Content Percent of Dry Weight	(2) Soil Type	Percent Compaction
1/4/79	S.E. Mid Area	32.0	2.0	112	13.8	2	91
1/4/79	S.E. Mid Area	34.0	4.0	111	12.1	1	93
1/4/79	S.W. Mid Area	36.5	0.0	110	14.2	2	90
1/25/79	S.W. Area	37.0	0.5	110	13.2	2	90
1/26/79	N.W. Area	35.0	1.0	113	13.8	2	92
1/26/79	N.W. Area	37.0	3.0	113	11.8	2	92
1/27/79	S. Mid Area	35.0	2.0	107	15.4	2	87
1/27/79	S. Mid Area	35.0	2.0	112	13.9	2	91
1/27/79	N.W. Area	34.0	1.0	112	14.2	2	91
1/27/79	N.W. Area	35.0	2.0	113	12.9	2	92
1/29/79	S. Mid Area	36.0	1.0	111	14.3	2	91
1/29/79	S. Mid Area	35.0	2.0	114	13.6	2	92
1/29/79	N. Mid Area	34.5	1.0	113	12.6	2	92
1/29/79	Mid Area	35.0	2.0	104	15.2	1	87
1/29/79	Mid Area	35.0	2.0	112	13.5	1	93
1/27/79	Facilities Bldg.	34.0	1.0	112	13.8	2	91
1/27/79	Facilities Bldg.	35.0	2.0	114	12.1	2	93
1/29/79	Facilities Bldg.	36.0	3.0	113	11.9	2	92
2/13/79	Facilities Bldg.	36.0	2.0	116	12.6	2	95
2/13/79	Facilities Bldg.	37.0	4.0	115	13.7	2	94
2/13/79	Facilities Bldg.	19.0	2.0	114	13.5	2	93
3/5/79	Facilities Bldg.	21.0	4.0	113	15.4	2	92
1/30/79	Mid Area	34.0	1.0	112	14.3	2	91
1/30/79	Mid Area	36.0	2.0	114	12.9	2	93
1/30/79	Old Structure	24.0	2.0	135	6.4	3	99
1/30/79	Mid Area	38.0	4.0	110	13.7	2	91
2/13/79	N.W. of Office	38.0	4.0	111	12.2	2	90
2/19/79	S. Mid Area	37.0	3.0	112	14.8	2	91
2/19/79	S. of Office	38.0	2.0	112	12.7	2	91
2/19/79	N. Mid Area	36.5	2.0	113	12.3	2	92
2/19/79	N. of Office	38.0	3.5	112	14.4	1	93
2/20/79	N. Mid Area	35.0	1.0	111	15.8	2	91
2/20/79	N. Mid Area	37.0	3.0	108	15.9	2	88
2/20/79	N. Mid Area	37.0	3.0	111	14.7	2	90
2/20/79	N. Mid Area	37.0	3.0	111	14.2	2	90
2/27/79	S. of Office	39.0	2.0	112	13.1	2	91
2/27/79	E. of Office	38.0	5.0	115	15.0	2	93
3/1/79	N. of Office	39.0	4.5	111	14.3	2	90
3/5/79	Old Vault	26.0	3.0	127	8.6	3	94
3/5/79	Old Vault	27.0	5.0	131	9.1	3	97
3/5/79	Old Vault	30.0	7.0	127	8.4	3	93
3/5/79	Old Vault	24.0	2.0	128	9.1	3	94

TABLE OF TEST RESULTS

TABLE I
FIELD DENSITY TESTS

Test Date	Location of Test	Approx. Elevation of Test (Feet)	Approx. Depth of Fill Below Test (Feet)	(1) Dry Density (p.c.f.)	Field Moisture Content Percent of Dry Weight	(2) Soil Type	Percent Compaction
3/5/79	Old Vault	26.0	4.0	129	6.7	3	95
3/5/79	Old Valve Box	24.0	2.0	125	9.8	3	92
3/5/79	Old Valve Box	26.0	4.0	130	7.7	3	96
3/6/79	S. Mid Area	35.0	2.0	112	15.1	2	91
3/6/79	Facilities Bldg.	36.0	3.0	108	16.5	2	88
3/6/79	Facilities Bldg.	36.0	3.0	111	14.9	2	90
3/6/79	N. Mid Area	33.0	1.0	110	15.3	1	92
3/6/79	Old Vault	32.0	1.0	113	14.2	2	92
3/7/79	Old Vault	33.0	11.0	112	13.7	2	91
3/7/79	Old Vault	35.0	4.0	112	11.6	1	93
3/7/79	S. of Facilities Bldg.	33.0	1.0	110	15.2	1	91
3/7/79	S. of Facilities Bldg.	32.0	2.0	112	13.4	1	93
3/7/79	N. of Facilities Bldg.	34.0	2.0	110	16.0	2	90
3/8/79	S. of Facilities Bldg.	34.0	4.0	105	17.4	1	88
3/8/79	S. of Facilities Bldg.	34.0	4.0	112	14.7	1	93
3/8/79	Mid Area	36.0	2.0	114	13.8	2	92
3/8/79	Facilities Bldg.	23.0	6.0	111	14.9	2	91
3/8/79	Facilities Bldg.	25.0	8.0	111	13.8	2	90
3/9/79	Facilities Bldg.	27.0	10.0	110	15.6	1	92
3/9/79	S. Mid Area	37.0	3.0	111	12.4	1	93
3/9/79	N.W. Area	38.0	4.0	110	16.0	1	92
3/9/79	Facilities Bldg.	29.0	12.0	111	13.6	2	90
3/10/79	Facilities Bldg.	31.0	13.0	114	14.3	2	93
3/10/79	So. of Facilities Bldg.	36.0	2.0	112	15.1	2	91
3/10/79	N.E. Area	35.0	3.0	110	16.1	1	91
3/10/79	Facilities Bldg.	34.0	2.0	111	14.9	2	90
3/10/79	N. of Facilities Bldg.	33.0	5.0	112	12.8	2	91
3/10/79	N. Mid Area	35.0	3.0	113	13.4	2	92
3/10/79	N. of Facilities Bldg.	36.0	3.0	112	14.2	1	94
3/12/79	S.E. Area	36.0	2.0	112	14.9	2	91
3/12/79	Mid Area	38.0	4.0	112	12.1	2	91
3/12/79	Old Vault	35.0	17.0	114	13.8	2	92
3/12/79	N. of Facilities Bldg.	36.0	8.0	110	15.2	1	92
3/12/79	Facilities Bldg.	35.0	3.0	105	17.4	2	85
3/12/79	Facilities Bldg.	35.0	3.0	112	15.3	2	91
3/13/79	W. of Facilities Bldg.	36.0	3.0	111	14.1	2	90
3/13/79	N. Mid Area	38.0	4.0	110	13.6	2	90
3/13/79	Facilities Bldg.	36.0	2.0	111	15.4	1	93
3/26/79	Facilities Bldg.	36.0	4.0	110	14.3	2	90
3/26/79	Facilities Bldg.	37.0	6.0	112	14.7	2	91
3/26/79	Facilities Bldg.	38.0	5.0	112	12.8	2	91
3/26/79	N. of Bldg. Pipe Removal	35.0	2.0	107	13.3	1	89
3/26/79	N. of Bldg. Pipe Removal	35.0	2.0	109	13.8	1	91

TABLE OF TEST RESULTS

TABLE I
FIELD DENSITY TESTS

Test Date	Location of Test	Approx. Elevation of Test (Feet)	Approx. Depth of Fill Below Test (Feet)	(1) Dry Density (p.c.f.)	Field Moisture Content Percent of Dry Weight	(2) Soil Type	Percent Compaction
4/3/79	Facilities Bldg.	37.0	20.0	113	14.6	2	92
4/3/79	Facilities Bldg.	38.0	6.0	108	15.6	1	90
4/3/79	N. of Facilities Bldg.	38.0	8.0	109	14.8	1	91
4/3/79	S. of Facilities Bldg.	37.0	5.0	108	13.4	1	90
4/4/79	Facilities Bldg.	38.5	14.0	112	13.2	2	91
4/4/79	Facilities Bldg.	38.5	6.0	111	13.8	1	92
4/4/79	Vault	37.0	2.0	132	8.2	3	97
4/4/79	Deep Vault	28.0	6.0	130	8.9	3	95
4/4/79	Deep Vault	30.0	8.0	133	9.2	3	98
4/4/79	Old Vault	32.0	10.0	106	17.2	1	88
4/5/79	Old Vault	32.0	10.0	111	14.9	1	92
4/5/79	N.W. Area	39.0	5.0	112	14.4	2	91
4/5/79	N.E. Area	37.0	2.0	114	14.7	2	93
4/5/79	Old Vault	34.0	12.0	114	13.8	2	93
4/6/79	S.W. Area	38.5	2.0	111	14.6	2	90
4/6/79	S.E. Area	36.0	2.0	111	11.9	2	91
4/6/79	Old Vault	36.0	12.0	109	15.4	1	91
4/6/79	S. of Facilities Bldg.	38.0	7.0	112	14.9	2	91
4/7/79	N. of Facilities Bldg.	38.0	4.5	117	13.2	2	95
4/7/79	E. Area	37.5	2.0	113	14.6	1	94
4/7/79	N.E. Area	38.5	3.0	110	13.8	1	91

Density of the compacted fill was determined in the field by the ASTM D1556-64 sand cone and ASTM D2937-71 drive cylinder tests. The moisture content of the soil samples obtained from the sand cone and drive cylinder tests was determined using a calcium carbide gas pressure moisture tester.

Soil Type is given on Table II, Laboratory Maximum Density Tests.

Mission field density tests were included in the February 26, 1979 report.

TABLE II
LABORATORY MAXIMUM DENSITY TESTS*

Soil Description	Maximum Dry Density, pcf	Optimum Moisture Content - Percent
Brown CLAYEY SILT	120	11.5
Brown CLAYEY SILT	123	11.2
Gray Crushed Miscellaneous GRAVEL	136	7.0

EC 8608

GRADING APR 25 1979

CITY OF LOS ANGELES
Department of Building and Safety
GRADING INSPECTOR'S COMPACTION RECORD

DEPT. LETTER

59967 P/10-20-78 — Permit Number
7940 — Dist. Map Number
1-19-79 — File Number

Tract 4671 & Vacated Rosewood St Lots 21-23, 26-28

Street Location 19310 Pacific Gate Wy

Hillside _____ Flat Hillside _____ Flatland ✓

1. Field Compaction Approved YES

2. Field Compaction Not Approved ——

office Bldg

Fill Lot No.'s 21-23 & 26-28
All lots not listed above are considered to be cut or natural.

Buttress Fill Lot No.'s ——

Required retaining wall on lot No.'s ——

Lot No.'s having fill over 100 ft. deep ——

——, to be held until _____

Sub-drain termination lot No.'s ——

Additional Remarks:

READY FOR B142

Inspector Sy Fierro Dist. 6-Sp Pro

Date _____

LAS 8-163 (R1 68)

APPENDIX B

SYNTHETIC RUBBER MANUFACTURING CHEMICALS

CHEMICALS COMMONLY USED IN THE MANUFACTURE OF RUBBER AND RELATED PROCESSES:

- <u>Components of Rubber</u>
- Butadiene
- Styrene
- Tert-Dodecyl Mercaptan
- Diisopropylbenzene Monohydroperoxide
- P-Menthane Hydroperoxide
- Ferrous Sulfate
- Potassium Pyrophosphate
- Trisodium Phosphate
- Tetrasodium Salt of Ethylenediamine-tetracetic Acid
- Sodium Formaldehyde Sulfoxylate
- Resin Acid Soap

- <u>Vulcanizing Agents</u>:
  Tetramethlylthiuram disulfide
  Tetrathiuriam disulfide
  Dipentamethylene thiuram tetrasulfide
  4,4-Dithiodimorpholine
  Selenium diethyldiocarbanate
  Aliphatic polysulfide polymer
  Alkyphenol disulfides

- <u>Accelerators</u>:
  Aldehyde-amine reaction products
  Arylguanidines
  Dithiocarbonates
  Thiuram sulfides
  Thiazoles
  Sulfenamides
  Xanthates
  Thioureas

- <u>Commercial Antioxidants</u>:
  Arylamines
    Aldahyde-amines
    Aldahyde-imines
    Ketone-amines
    p-Phenylenediamine
    Diarylamines
    Alkylated diarylamines

- <u>Commercial Antioxidants (continued)</u>:
  - Ketone-diarylamines
  - Phenols
    - Substituted phenols
    - Alkylated biphenols
    - Substituted hydroquinones
    - Thiobisphenols

Source: Williams, T.M., Harris, R., Symans, M., and VanErt, M., American Industrial Hygene Association Journal, vol. 41, Pg. 204, 1980.