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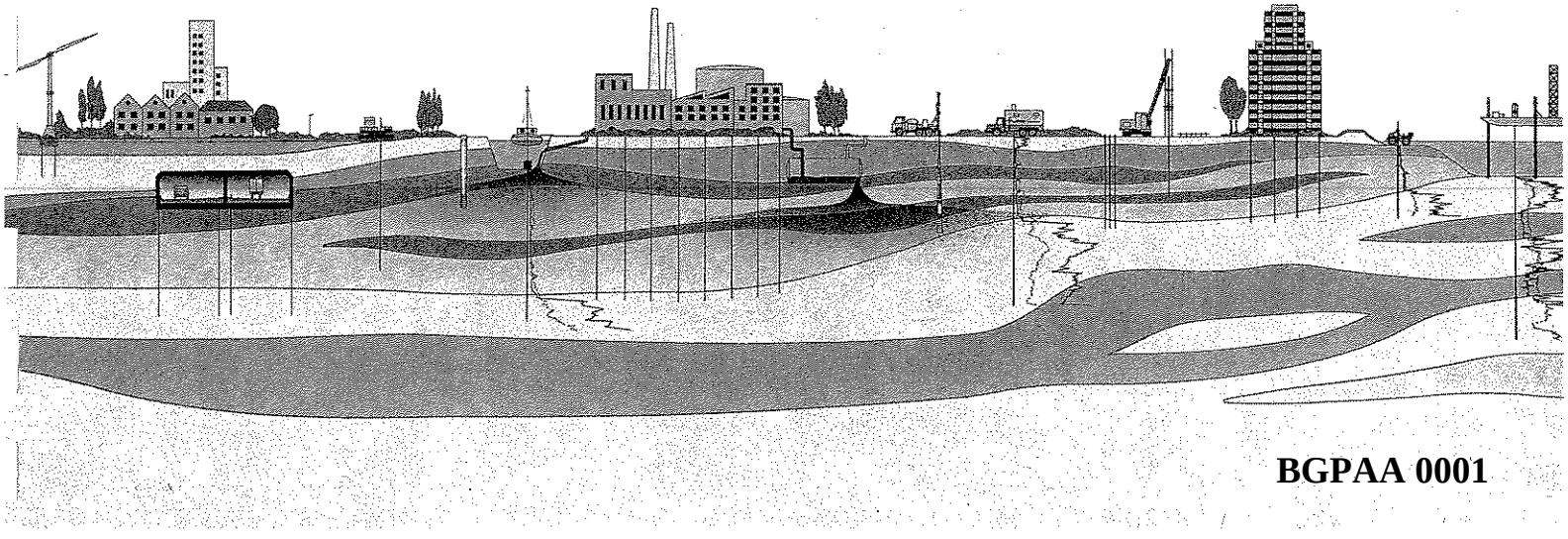
FUGRO-McCLELLAND (WEST), INC.

PHASE II SITE ASSESSMENT/ REMEDIATION REPORT

FORMER MAINTENANCE YARD 4750 WHEATLAND AVENUE LOS ANGELES, CALIFORNIA

Prepared for:
BURBANK GLENDALE PASADENA AIRPORT AUTHORITY

August 1993



BGPAA 0001

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August 25, 1993
Project No. 92-41-3394

Burbank Glendale Pasadena Airport Authority
2627 Hollywood Way
Terminal A, Second Floor
Burbank, California 91505

Attention: Mr. Dan Feger

Phase II Site Assessment/Remediation Report
Former Maintenance Yard
4750 Wheatland Avenue
Los Angeles, California

Dear Mr. Feger:

This report presents the results of our site assessment and remediation conducted at the above-referenced facility. The sampling program was conducted for the Burbank Glendale Pasadena Airport Authority in general accordance with our proposals dated February 12, 1993, and June 14, 1993, and the terms and conditions of the Basic Agreement for Environmental Engineering Services.

We appreciate the opportunity to have worked with you on this interesting assignment. Please call the undersigned if you have any questions or comments.

Sincerely,
FUGRO-McCLELLAND (WEST), INC.

REGISTERED GEOLOGIST
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INTRODUCTION

This report documents the methodology, conclusions, and recommendations of an assessment and remediation program at the former maintenance yard located at 4750 Wheatland Avenue in Los Angeles, California. The work was conducted for the Burbank Glendale Pasadena Airport Authority (Authority) as authorized in our proposals dated February 12, 1993, and June 14, 1993. Preliminary results of the site assessment program were summarized in our report dated June 14, 1993 (*Preliminary Phase II Site Assessment Report, Former Maintenance Yard, 4750 Wheatland Avenue, Los Angeles, California*). Based on the results and recommendations contained within the preliminary assessment, final site remediation has been implemented.

Included with this report are the following appendices: Appendix A - Logs of Drill Holes and Cone Penetrometer Tests, Appendix B - Laboratory Analytical Reports, and Appendix C - Waste Manifests.

Purpose and Scope

The purpose of our assessment and remediation was to evaluate the possible presence of subsurface site contamination within the footprint of the proposed new construction, and remediate discovered contamination to acceptable levels. The scope of work was developed through conversations with the Authority and included the following:

- Preparation and implementation of a site-specific health and safety plan.
- Review of prior environmental documentation regarding the site provided by the Authority.
- Completion of a subsurface assessment using hollow-stem auger and cone penetrometer testing (CPT) techniques to develop stratigraphy, collect soil samples for laboratory analysis, and to collect shallow soil-gas samples for onsite screening for the presence of volatile organic vapors.
- Collection of soil samples from the sides of the former service bay excavation, soil stockpiled from that excavation, and discolored surface soil.
- Excavation and transport of lead- and hydrocarbon-contaminated soil to the Gibson Oil and Refining Co. Inc., facility in Bakersfield, California.
- Preparation of this report documenting the methods, findings, and conclusions of the Phase II site assessment and remediation.

Site History and Description

The former maintenance yard is located west of and adjacent to the active airport aprons/taxiway at 4750 Wheatland Avenue, south of Saticoy Street (Plate 1 - Vicinity Map). We understand that the facility has been abandoned for about 2 years and has been used periodically as a contractor laydown yard and staging area during the interim. We were informed by you that several underground storage tanks were previously removed from the northwest quadrant of the site, but that no indications of gross subsurface contamination were observed during the tank removals.

Two buildings, located in the western third of the site, were demolished in May 1993 and the construction materials removed from the site (Plate 2 - Site Plan). A single-story, 40- by 30-foot wood-frame office building, Building 505, was located in the northwest corner of the site. A 40- by 100-foot metal maintenance building, Building 502, was present in the southwest corner of the site. A vehicle service bay was located below the concrete floor near the eastern end of the building. A plywood lean-to addition (approximately 15- by 20-foot), located on the east side of the maintenance building, was reportedly used as a paint bay or disposal area.

Except for the buildings and a concrete slab to the east of the maintenance building, the site appeared to have an unpaved gravel surface. When site work for the Phase II assessment was conducted on May 20 and May 27, 1993, the site surface was observed to be comprised mostly of disturbed sandy soil. The central portion of the site was comprised of undisturbed soil with a dark, discolored area measuring approximately 50 feet by 50 feet (see Plate 2). This area appeared to be a low area of the site, possibly where surface drainage collected. During site work by Fugro-McClelland in August 1993, remnants of 1- to 2-inch asphalt pavement were observed in the eastern third of the site, near the gate to the apron/taxiway.

Three unidentified holes measuring a few feet in diameter and about 10 feet deep (locations are shown on Plate 2), also were observed. The hole located near drill hole No. 7 (DH-7) was lined with cinder block. These holes may be related to septic systems, although no odor or moisture was apparent. A historic drainage swale, reportedly located along the eastern site perimeter (draining from the north), had been filled.

Previous Subsurface Investigation

An environmental document provided by the Authority entitled *Soil Gas Survey* by Target Environmental Services, Inc., (November 1991) contains previously acquired site-specific information and was reviewed by Fugro-McClelland for this assessment. The Target Environmental sampling included subsurface soil-gas sampling at 23 locations in the maintenance yard (Plate 2). Six of these locations included soil-gas sampling at about 5-foot depth intervals down to 20 feet, while the remainder of locations included soil-gas sampling at 6-foot depths

only. The Target Environmental report documents analyses for petroleum and halogenated hydrocarbons for each soil-gas sample.

Target Environmental reported tetrachloroethene levels ranging from 0.06 to 3.0 micrograms per liter (μg/l), and 1,1,1-trichloroethane (1,1,1-TCA) at levels ranging from 0.15 to 1.3 μg/l at depths between 6 and 20 feet below ground surface (bgs) at the site. The higher values were located beneath and near Building 502. The report states that the concentrations of volatile hydrocarbons beneath and near Building 502 indicated potential contamination in the soil, but that other concentrations in other areas were insignificant.

Regional Conditions

The Burbank Glendale Pasadena Airport is located on the piedmont slope to the southwest of the adjacent Verdugo Mountains. Hence, the airport and its vicinity are underlain by thick deposits of sediments that have been eroded from the adjacent mountains and redeposited to form the piedmont. The ground surface in the area slopes to the south. At the project site, the surface elevation is about 757 feet above mean sea level (MSL).

The composition of the nearby mountains, as well as prior subsurface sampling at the airport, suggests that the underlying sediments are composed primarily of coarse-grained sand and gravel. Cobbles and boulders may be present either in a sand and gravel matrix or as layers. Silt and clay layers are known to be locally present within the sediment sequence. Prior data suggest that the lateral continuity of the fine-grained sediments is limited.

The project area is within the San Fernando Ground Water Basin. Based on ground water levels recorded as part of the ongoing North Hollywood National Priorities List studies, the ground water surface was at about elevation 500 feet above MSL in April 1991 (i.e., about 260 feet bgs).

SITE ASSESSMENT SAMPLING AND TESTING METHODOLOGY

Drill Holes

Ten shallow drill holes were advanced at the site on May 20, 1993. The drill hole locations are shown on Plate 2. The drill holes were advanced with a truck-mounted, hollow-stem-auger drill rig (operated by Valley Well Drilling of Ventura, California) under the technical direction of a Fugro-McClelland field geologist. A California Registered Geologist was onsite to observe the sampling techniques. The first five drill holes were advanced to depths between 10 and 20 feet in the area of the former service bay in Building 502. Drill holes DH-6 and

DH-7 were advanced to 10-foot depths near the unidentified holes in the northwestern corner of the site. Drill holes DH-8, DH-9, and DH-10 were each advanced to 8 feet in depth in the central area of the site where the surficial soils were stained.

The soil lithology was logged by observing discrete soil samples and cuttings generated during drilling. Soil samples were collected generally in the first foot of depth and at 3- or 5-foot intervals to the full depth of the drill holes. Soil samples were obtained by driving a modified California split-spoon sampler with a 140-pound hammer dropped 30 inches. The number of blow counts per one-half-foot required to drive the sampler were recorded during logging of the holes.

The samples were recovered in stainless-steel 2.5-inch-diameter, 3-inch-long sampler sleeves, sealed with Teflon sheets and plastic end caps, labeled, and stored in a cooler with artificial ice. The samples were transported to a state-certified laboratory for analysis. The laboratory employed was National Environmental Testing, Inc., of Burbank, California. Two duplicate samples were submitted for laboratory analysis for quality assurance purposes. Prior to each sampling attempt, the sampler and sample liners were decontaminated by washing with a nonphosphate detergent and doubly rinsed with deionized water.

Of the remaining sleeves in the sampler, one was capped and stored on artificial ice for subsequent screening with a photoionization detector (PID) in the Fugro-McClelland office. The screening was not performed in the field because of a malfunction of the PID instrument. PID readings were tabulated and included in the drill hole logs. The remaining samples in each sampler were visually classified and observed for signs of contamination.

Excavated soils were placed in a labeled 55-gallon drum of the type approved by the U.S. Department of Transportation. The drum was stored onsite pending laboratory analysis of the soil samples. Sloughing of soil occurred in the drill holes, filling about the lower third of the holes. The upper portion of the holes were backfilled with hydrated bentonite chips. After laboratory results indicated no detectable contamination in the drummed soil, it was emptied onsite and the drum removed.

Soil Samples Collected by Hand

Several soil samples were collected on May 20, 1993, in 2.5-inch-diameter, 3-inch-long, decontaminated, stainless-steel sleeves and handled in the same manner as those collected during the drilling operation. The soil stockpile from the service bay excavation was sampled in this manner, as were the east and west sides of the excavation at a depth of about 3 feet. A sample of the stained surficial soil in the central portion of the site was also collected.

Cone Penetrometer Testing

On May 27, 1993, seven test holes (CPT-1 through CPT-7) were advanced for standard CPT soundings to develop shallow stratigraphy beneath the site, and to collect limited additional samples for environmental profiling. The locations of these test holes are shown on Plate 2.

The first test hole was advanced to a depth of approximately 48 feet before the probe tip met with refusal. CPT-1 was completed in the central portion of the west end of the site. CPT-2 and CPT-3, sounded to 10 feet in depth, were located in the eastern portion of the site. CPT-4 and CPT-5 were sounded in the northwestern portion of the site within 10 feet of each other. CPT-4 was advanced to, and met refusal at, 27 feet. In an attempt to complete a deeper sounding, CPT-5 was advanced. However, refusal was met at about 22 feet in CPT-5. CPT-6 and CPT-7 were advanced in the southwestern corner of the site (to about 38 feet) and near the southern unidentified hole (to about 20 feet), respectively.

After the CPT test holes, soil samples were collected using the CPT rig at locations immediately adjacent to CPT holes CPT-1, CPT-6, and CPT-7. The samples were collected within the first foot of the surface and at depths of 3 and 8 feet in all three holes, and at depths of 11 and 16 feet in CPT-7. Soils were screened onsite for volatile organics using a Photovac Microtip II PID. PID readings were tabulated and included in the logs.

The geologist logged CPT-1, CPT-6, and CPT-7 from observation of the soil samples collected in those holes. The CPT soundings generated separate logs of the lithology based on the ratio of tip resistance to sleeve friction measured throughout the testing. All CPT-generated holes were backfilled with bentonite grout.

Soil-gas samples from depths of 12 and 15 feet in CPT-7 were collected using the CPT soil-gas sampling probe. Soil-gas samples were pumped from discrete depths through Teflon tubing into Tedlar sample bags and field-screened with the PID for volatile hydrocarbons.

Laboratory Analysis

The laboratory analysis was conducted in accordance with the Regional Water Quality Control Board's Well Investigation Program guidelines. Selected soil samples were analyzed for total recoverable petroleum hydrocarbons (TRPH) using EPA method 418.1; volatile and semivolatile hydrocarbons using EPA methods 8240 and 8270, respectively; fuel fingerprint, and benzene, toluene, ethylbenzene, and total xylenes (collectively referred to as BTEX) by EPA methods 8015, modified, and 8020, respectively; and CAM metals by method 6010 (except for arsenic by method 7060, lead by method 7421, mercury by method 7471, and selenium by method 7740). Methods 8015 and 8020 are used for identifying carbon chains roughly C-4 to C-30 (gasoline, jet fuels, diesel, motor oil, and crude oil), quantified against a diesel standard.

SITE ASSESSMENT RESULTS

Subsurface Conditions

Appendix A contains the data collected in the field regarding each drill hole. A key to terms and symbols used in the logs is also provided. The CPT sounding data is presented in log form also, at the end of Appendix A.

The earth materials encountered were primarily yellowish brown, poorly graded, loose and dense sand with gravel. Subrounded cobbles, less than a few inches in any dimension, were common. Some silty sand layers also were encountered. These observations were corroborated by the CPT data. Ground water was not encountered in any of the drill holes.

No volatile hydrocarbons were detected in the soil samples screened using the PID. None of the samples from the subsurface appeared discolored or odorous. The soil-gas samples did not contain volatile hydrocarbons detectable to the PID.

Laboratory Analytical Results

The results of the laboratory analyses are shown in Table 1 - Soil Sample Analytical Results - Hydrocarbon Compounds, and Table 2 - Soil Sample Analytical Results - Metals. The reports submitted by the laboratory and the chain-of-custody documentation accompanying the samples to the laboratory are included in Appendix C.

No volatile or semivolatile organics were detected in any of the samples analyzed for these constituents. Additionally, no BTEX constituents were detected.

In analyzing for fuel fingerprint, the laboratory detected some hydrocarbons identified as motor oil (although quantified as diesel). Motor oil at a concentration of 61 parts per million (ppm) was detected in the sample from 0.5 feet in DH-10 (located in the stained surficial soil area of the site). That sample also contained TRPH at a concentration of 110 ppm. Motor oil also was detected, but at much lower concentrations (0.9 to 9.0 ppm), in both samples collected from the soil stockpiled ("spoil pile") from the service bay excavation. No TRPH were detected in those samples. Sample CPT-1 at 8 feet contained a TRPH concentration of 76 ppm and a motor oil concentration of 24 ppm. No other samples contained TRPH or fuel levels greater than 5 ppm.

A composite soil sample collected from the stained surficial soil area also was tested for CAM metals (see Table 2). With the exception of lead, none of the metals were detected in excess of 10 times the soluble threshold limit concentration of 5 milligrams per liter (mg/l).

Lead was detected in that sample at a concentration of 300 milligrams per kilogram (mg/kg). A waste extraction test (WET) was performed on that sample with a resulting concentration of 16 mg/l. To evaluate the extent of lead contamination in the surrounding area, the samples collected from borings DH-8, 9, and 10 at depths of 0.5 feet and 3.0 feet were additionally tested for soluble lead. All of those additional samples were reported to have soluble lead concentrations well below the established hazardous waste limit.

SITE ASSESSMENT CONCLUSIONS AND RECOMMENDATIONS

Based on the observations and analyses reported herein, limited areas of soil contamination in the form of motor oil or diesel and/or lead were found to exist at the site. Contamination, where present, was found to be localized to the near surface. Although there are no clearly established cleanup levels for petroleum hydrocarbons in soil, a general cleanup level of 100 mg/kg is considered to be fairly conservative, in the absence of other contaminants, especially if there is considerable separation between the contamination and the underlying ground water. Because ground water is known to be greater than 200 feet bgs, a 100 mg/kg hydrocarbon cleanup level is considered by Fugro-McClelland to be conservative for this site.

Low levels of hydrocarbon contamination were detected in the excavated stockpiled soil near Building 502 (less than 10 mg/kg). Because of these low levels and the absence of other contaminants (volatile and semivolatile organics), it is our opinion that this material is suitable for use as backfill at the site. In our draft report of June 14, 1993 (*Preliminary Phase II Site Assessment Report, Former Maintenance Yard, 4750 Wheatland Avenue*), we recommended that the stockpiled soil be used for backfilling the former service bay excavation.

Low levels of hydrocarbon contamination were detected at 8 feet in depth in CPT-1 (76 mg/kg as TRPH). That test location was in an area with no expected contaminant source. Those levels were not considered by Fugro-McClelland to be sufficiently high to warrant remediation or further investigation in this area.

The subsurface soil samples collected near the two unidentified holes in the northwestern portion of the site did not contain evidence of contamination. Very low levels (about 5 mg/kg) of motor oil were detected near the southern unidentified hole near the former plywood addition. No paint-related contamination was detected near the former paint booth/plywood addition east of Building 502.

The area of stained surface soil in the central portion of the site was found to be contaminated with lead and slightly contaminated with motor oil. That area of the site is apparently a low spot where surface drainage would pool. Lead was found to be present in a

composite surface sample at hazardous concentrations. The lead-contaminated soil was found to be localized to the discolored soil at the surface and did not migrate vertically. Six additional samples collected in that area at depths ranging from 0.5 to 3 feet had low or nondetectable concentrations of lead. One of the three samples collected at 0.5 feet had a hydrocarbon concentration (TRPH) in excess of 100 ppm. In our draft report dated June 14, 1993, we recommended that the stained surface soil in the central portion of the facility be excavated and hauled to an approved treatment/disposal facility. Following is a summary of the remediation that was performed in this regard.

SITE REMEDIATION

Prior to site remediation, copies of laboratory analytical data were forwarded to Gibson Oil & Refining Co., Inc. of Bakersfield, California. The soil was pre-approved for acceptance to be recycled using a transportable treatment unit, which operates under permit by rule granted by the Department of Health Services.

Remediation of the stained surface soil in the central portion of the facility was conducted on August 11, 1993. Soil excavation and hauling was conducted by OST Trucks and Cranes of Ventura, California. The remediation activities were supervised by a Fugro-McClelland geologist. The upper 6 to 8 inches of soil in the stained surface soil area was scraped using a 545A Ford skiploader. Soil staining was observed to extend down a few inches throughout most of the area and no deeper than 6 inches. Approximately 15 cubic yards of soil was scraped, loaded, and removed by truck. The material was transported to the Gibson facility under hazardous waste manifest (see Appendix C).

During scraping of the contaminated soil along the easternmost edge, a 1- to 2-inch asphalt layer was observed. The layer appeared to be fairly old and patchy. The approximate configuration of the asphalt is shown on Plate 2. The discolored soil was not observed to be in contact with the asphalt layer. The asphalt layer was not removed. We recommend that during site grading, that layer be excavated, stockpiled separately, and transported offsite.

LIMITATIONS

This report has been prepared for the Burbank Glendale Pasadena Airport Authority as a field assessment and remediation at the former maintenance yard located at 4750 Wheatland Avenue in Los Angeles, California. In performing our professional services, we have applied present engineering and scientific judgment and used a level of effort consistent with the standard

of practice relative to the date of this report and in the locale of the project site for similar type studies. Fugro-McClelland (West), Inc., makes no warranty, express or implied, concerning any of the materials or services furnished by Fugro-McClelland (West), Inc.

The analyses and interpretations in this report have been developed based on the results of a limited soil sampling and analytical testing program. It should be recognized that subsurface contamination can vary laterally and with depth below a given site, and that the evaluation contained herein is based on sampling results at the sample locations identified.

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Table 1. Soil Sample Analytical Results, Hydrocarbon Compounds

(Values in milligrams per kilogram)

Sample Location	Depth (feet)	TRPH	Fuel Fingerprint	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Volatile Organics	Semi-Volatile Organics
DH-1	0.5	ND	ND	ND	ND	ND	ND	---	---
	5	ND	---	---	---	---	---	---	---
	10	---	---	---	---	---	---	---	---
	15	---	---	---	---	---	---	---	---
DH-2	0.5	---	---	---	---	---	---	---	---
	2.5	ND	---	---	---	---	---	ND	ND
	5	---	---	---	---	---	---	---	---
	10	ND	---	---	---	---	---	ND	ND
	15	---	---	---	---	---	---	---	---
DH-3	5	ND	---	---	---	---	---	ND	ND
	10	ND	---	---	---	---	---	---	---
DH-4	0.5	---	---	---	---	---	---	---	---
	2.5	ND	ND	ND	ND	ND	ND	---	---
	5	---	---	---	---	---	---	---	---
	10	ND	---	---	---	---	---	---	---
	15	---	---	---	---	---	---	---	---
DH-5	2.5	ND	---	---	---	---	---	---	---
	5	ND	ND	ND	ND	ND	ND	---	---
	7.5	---	---	---	---	---	---	---	---
	12.5	ND	---	---	---	---	---	---	---
DH-X (Duplicate from DH-5)	5	ND	ND	ND	ND	ND	ND	---	---
DH-6	10	ND	---	---	---	---	---	ND	ND
	15	---	---	---	---	---	---	---	---
DH-7	10	ND	---	---	---	---	---	---	---
	15	ND	---	---	---	---	---	ND	ND
DH-Y (Duplicate from DH-7)	10	---	---	---	---	---	---	---	---
DH-8	0.5	ND	---	---	---	---	---	---	---
	3	ND	---	---	---	---	---	---	---
	8	---	---	---	---	---	---	---	---
DH-9	0.5	ND	---	---	---	---	---	ND	ND
	3	ND	---	---	---	---	---	---	---
	8	---	---	---	---	---	---	---	---
DH-10	---	---	---	---	---	---	---	---	---
	0.5	110	61 (motor oil)	ND	ND	ND	ND	---	---
	3	ND	---	---	---	---	---	---	---
	8	---	---	---	---	---	---	---	---
East Sidewall of Service Bay Pit	3	ND	ND	ND	ND	ND	ND	---	---
West Sidewall of Service Bay Pit	3	ND	ND	---	---	---	---	ND	ND

Table 1. (Continued)

Sample Location	Depth (feet)	TRPH	Fuel Fingerprint	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Volatile Organics	Semi-Volatile Organics
Spoil Pile North	NA	ND	9.0 (motor oil)	ND	ND	ND	ND	---	---
CPT-1	0.5	ND	---	---	---	---	---	---	---
	3	---	3.0 (motor oil)	ND	ND	ND	ND	---	---
	8	76	24.0 (motor oil)	---	---	---	---	---	---
CPT-6	0.5	4.6**	---	---	---	---	---	---	---
	3	--	4.0 (motor oil)	ND	ND	ND	ND	---	---
	8	ND	---	---	---	---	---	---	---
CPT-7	0.5	---	---	---	---	---	---	---	---
	3	ND	---	---	---	---	---	---	---
	8	4.6**	---	---	---	---	---	---	---
	11	---	4.8 (motor oil)	ND	ND	ND	ND	---	---
	16	---	---	---	---	0.0011**	---	ND	---
Spoil Pile South	NA	ND	0.9 (motor oil)	---	---	---	---	ND	ND
Method Detection Limit		2	*	0.0003	0.0003	0.0003	0.001	*	*
Practical Quantitation Limit		10	*	0.005	0.005	0.005	0.015	*	*

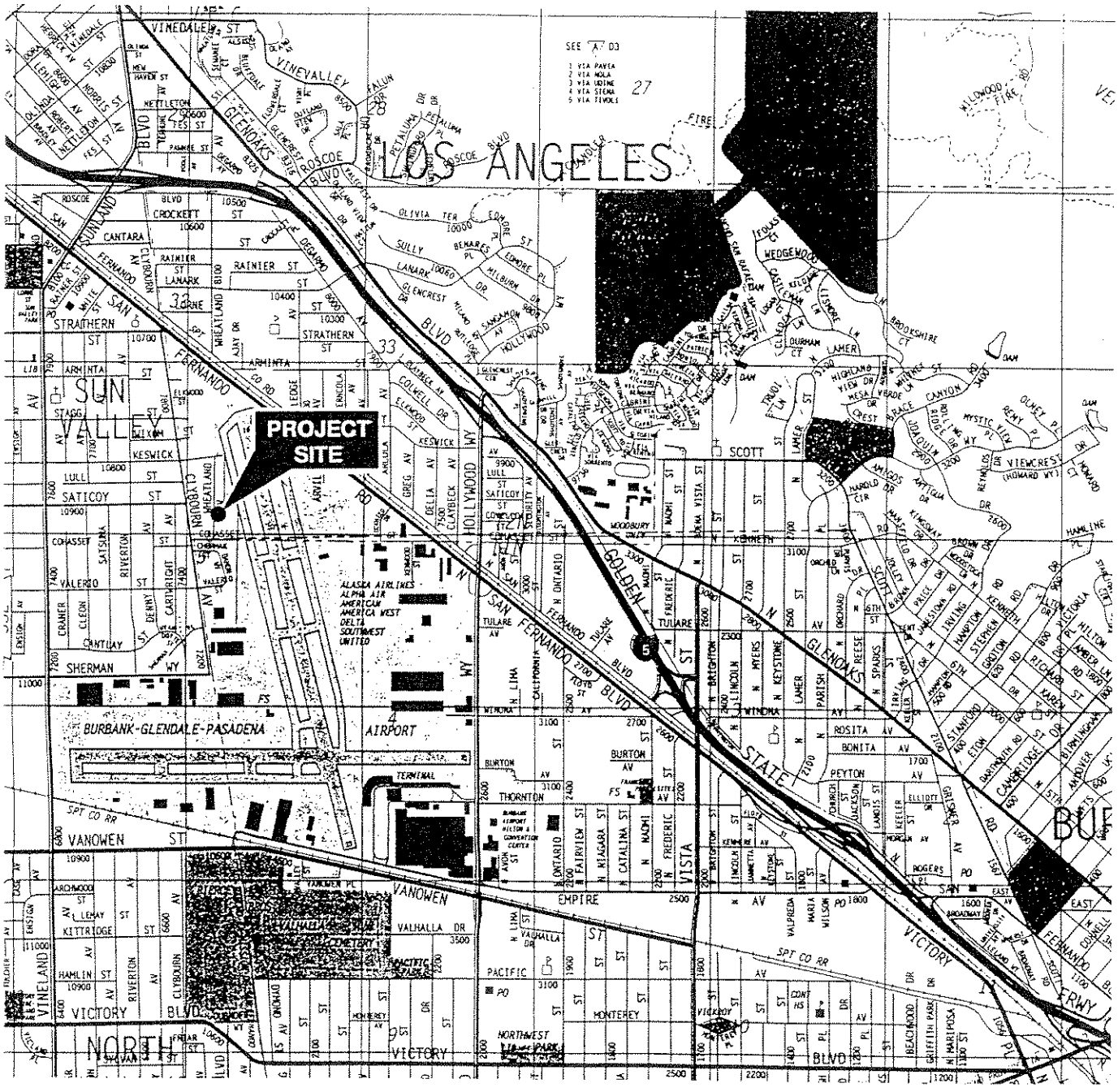
* Detection limits listed on attached laboratory reports
** Result is above method limit, but below laboratory practical detection limit
TRPH Total recoverable petroleum hydrocarbons
ND Not detected at or above laboratory detection limits
NA Not applicable
--- Not analyzed
Note: Motor oil concentrations are quantitated as diesel.

Table 2. Soil Sample Analytical Results, Metals

Compound Analyzed	Results in mg/kg	Results in mg/l						STLC	TTLC	Detection Limit	
	Stained Soil Near DH-10	DH-8 @ 0.5 foot	DH-8 @ 3 feet	DH-9 @ 0.5 foot	DH-9 @ 3 feet	DH-10 @ 0.5 foot	DH-10 @ 3 feet			Total Concentration	Soluble Concentration
Antimony	ND	--	--	--	--	--	--	15	500	10	NA
Arsenic	37	--	--	--	--	--	--	5	500	0.5	NA
Barium	110	--	--	--	--	--	--	100	10,000	2.0	NA
Beryllium	ND	--	--	--	--	--	--	0.75	75	2.0	NA
Cadmium	ND	--	--	--	--	--	--	1	100	2.0	NA
Chromium	42	--	--	--	--	--	--	560	2,500	2.0	NA
Cobalt	7.3	--	--	--	--	--	--	80	8,000	5.0	NA
Copper	61	--	--	--	--	--	--	25	2,500	2.0	NA
Lead	*300 (16)[1]	0.63	ND	0.98	0.10	0.34	ND	5	1,000	0.2	0.05
Mercury	0.3	--	--	--	--	--	--	0.2	20	0.1	NA
Molybdenum	ND	--	--	--	--	--	--	350	3,500	5.0	NA
Nickel	21	--	--	--	--	--	--	20	2,000	5.0	NA
Selenium	ND	--	--	--	--	--	--	1	100	0.5	NA
Silver	ND	--	--	--	--	--	--	5	500	2.0	NA
Thallium	ND	--	--	--	--	--	--	7	700	20	NA
Vanadium	24	--	--	--	--	--	--	24	2,400	5.0	NA
Zinc	180	--	--	--	--	--	--	250	5,000	5.0	NA

NA Not Applicable
-- Not Analyzed
ND Not Detected at Stated Detection Limit
STLC Soluble Threshold Limit Concentration
TTLC Total Threshold Limit Concentration
* Exceeds ten times the STLC. Waste Extraction Test (WET) performed to quantify the soluble lead concentration. Soluble Concentration in mg/l shown in parentheses

Analysis by NET Pacific



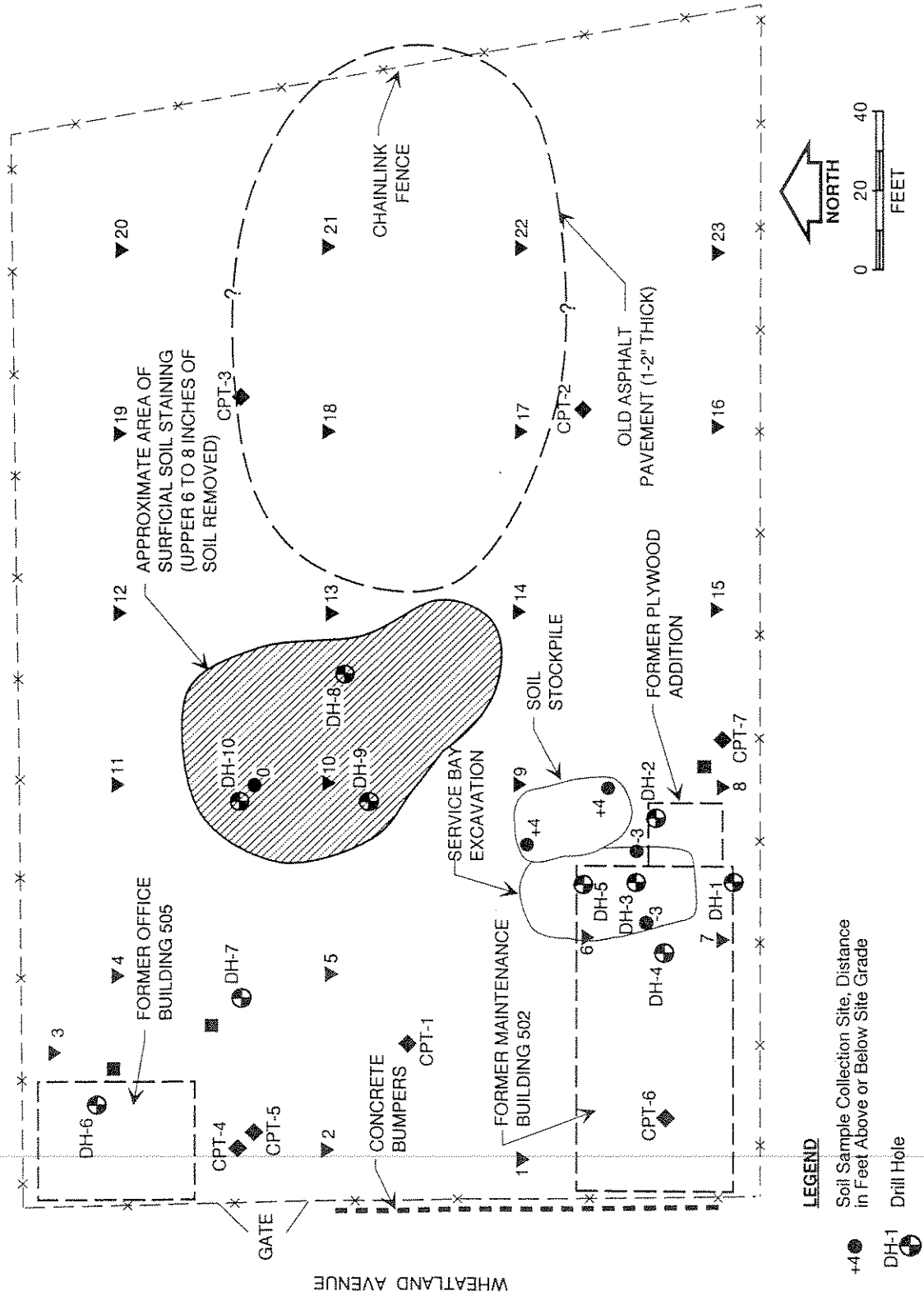
NORTH

0 1/2

MILE

VICINITY MAP

Former Maintenance Yard
Wheatland Avenue
Los Angeles, California



SITE PLAN
Former Maintenance Yard
Wheatland Avenue
Los Angeles, California

APPENDIX A

LOGS OF DRILL HOLES AND CONE PENETROMETER TESTS

August 1993
Project No. 92-41-3392

FUGRO ◘ McClelland

LOCATION: South of service bay pit: former maintenance yard

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
				1	(25)	Medium to coarse SAND (SP): medium dense, grayish brown, damp, some subrounded cobbles to 7" long - drilled through a rock, at 2.5'	
750	5			2	(28)	SAND with silt and gravel (SP-SM): medium dense, pale yellowish brown, damp, granitic subrounded grains	
	10			3	(83)		<5
	15			4	(70)		
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 16 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 8 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 1

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

PLATE A-1

August 1993
Project No. 92-41-3392

LOCATION: East of service bay pit; former maintenance yard

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
				1	(19)	Fine to coarse SAND with silt and gravel (SP-SM): medium dense, dark yellowish brown, damp	0
				2	(20)		0
	5			3	(17)	- moderate yellowish brown, subrounded cobbles to 4" diameter, below 5'	0
750							
	10			4	(43)		0
	15			5	(53)		0
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 17 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 8 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 2

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

PLATE A-2

August 1993
Project No. 92-41-3392

FUGRO ◘ McClelland

LOCATION: Center of service bay pit; former maintenance yard

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
						Open pit to approximately 4 ft depth	
750	5			1	(28)	SAND with gravel (SP): medium dense, pale yellowish brown, damp, subrounded cobbles to 4"	0
	10			2	(62)		0
740	15						
	20						
730	25						
	30						
720	35						

COMPLETION DEPTH: 12 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 9 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 3

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

August 1993
Project No. 92-41-3392

LOCATION: West of service bay pit; former maintenance yard

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
				1	(32)	SAND with gravel (SP): medium dense, moderate yellowish brown, damp, subrounded pebbles to 1"	0
				2	(12)	- pale yellowish brown, at 3'	0
	5			3	(46)	- with thin gravel layers and subrounded cobbles to 4", at 5'	
750							
	10			4	(76)	- dense, moderate yellowish brown, gravel to 1/2", at 10'	0
	15			5	(40/8")		0
740							
	20			6	(111/11")		
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 22 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 12 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 4

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

PLATE A-4

August 1993
Project No. 92-41-3392

Fugro McClelland

LOCATION: North-central portion of service bay pit; former maintenance yard

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
						Open pit to approximately 2 ft depth	
				1	(19)	Silty, fine to medium SAND (SM): medium dense, pale brown, damp	0
	5			3	(52)	SAND with gravel (SP): medium dense, pale brown, damp - laboratory duplicate sample (DH-X) collected at 5'	0*
750				4	(80)	- coarse grained, from 7.5'	0
	10						
				5	(14)	- loose, at 12.5'	0
	15						
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 14 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 9 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993
* Laboratory duplicate sample DH-X collected here

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 5

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

LOCATION: Northwest corner of property; former maintenance yard

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
						SAND with gravel (SP): pale yellowish brown, moist	
	5						
750							
	10			1	(44)	- dense, moderate yellowish brown, damp, subrounded gravel to 2", below 10'	0
	15			2	(85/10")		
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 16 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 11 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 6

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

August 1993
Project No. 92-41-3392

FUGRO ◘ McClelland

LOCATION: Northwestern portion of property; former maintenance yard

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
						Fine to medium SAND (SP): moderate yellowish brown, damp	
	5						
750							
	10			1	(26)	- medium dense at 10' - laboratory duplicate sample (DH-Y) collected at 10'	0
	15			2	(20)		0
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 17 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 9 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993
* Laboratory duplicate sample DH-Y collected here

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 7

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

PLATE A-7

August 1993
Project No. 92-41-3392

LOCATION: Central portion of property; former maintenance yard

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
				1	(86)	Fine to coarse SAND with gravel (SP): medium dense, moderate yellowish brown, damp	
				2	(30)	- decreasing gravel content, pale brown, below 3'	0
	5						
750							
				3	(13)	- damp, below 8'	0
	10						
	15						
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 10 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 6 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 8

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

August 1993
Project No. 92-41-3392

FUGRO ◘ McClelland

LOCATION: Central portion of property; former maintenance yard

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
				1	(20)	SAND (SP): medium dense, moderate brown, moist, with dusky brown staining in top 4"	<5
				2	(19)	- pale brown, damp, with gravel, below 3'	0
	5						
750							
				3	(25)	- minor gravel, below 8'	0
	10						
	15						
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 10 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 8 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 9

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

LOCATION: Central portion of property; former maintenance yard

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
				1	(17)	Silty SAND (SM): medium dense, moderate brown, moist, some dusky brown staining in top 4 inches	0
				2	(23)	SAND (SP): medium dense, moderate brown, damp	0
	5						
750							
				3	(48)	- dense, pale brown, below 8'	
	10						
	15						
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 10 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: 7 ft
BACKFILLED WITH: Bentonite
DRILLING DATE: May 20, 1993

DRILLING METHOD: Hollow Stem Auger
DRILLED BY: Valley Well Drilling
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. 10

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

August 1993
Project No. 92-41-3392

Fugro McClelland

LOCATION: 40 ft east of west end of property, between former buildings

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
				1		Silty fine SAND (SM): loose, dark yellowish brown, damp, with subangular gravel to 1/2"	0
				2			0
	5						
750							
				3			0
	10						
	15						
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 9 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: No Caving
BACKFILLED WITH: Bentonite Grout
DRILLING DATE: May 27, 1993
* PID reading by Photovac, Microtip II

DRILLING METHOD: Cone Penetrometer
DRILLED BY: Fugro Geosciences
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. CPT-1

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

PLATE A-1

August 1993
Project No. 92-41-3392

LOCATION: Southwestern corner of property

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
				1		Fine to coarse SAND (SP): dark yellowish brown, damp, with minor subrounded gravel to 1.25"	0
				2			0
	5						
750							
				3			0
	10						
	15						
740							
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 9 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: No Caving
BACKFILLED WITH: Bentonite Grout
DRILLING DATE: May 27, 1993
* PID reading by Photovac, Microtip II

DRILLING METHOD: Cone Penetrometer
DRILLED BY: Fugro Geosciences
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

LOG OF DRILL HOLE NO. CPT-6

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

August 1993
Project No. 92-41-3392

Fugro McClelland

LOCATION: South property boundary

SURFACE EL: 757 ft (approx MSL)

ELEVATION, ft	DEPTH, ft	MATERIAL SYMBOL	SAMPLES	SAMPLE NO.	SAMPLER BLOWS/FT	MATERIAL DESCRIPTION	PID READING
				1		Fine SAND (SP): loose, moderate brown, damp	0
				2		Fine to medium SAND (SP): loose, dark yellowish brown, damp	0
	5						
750							
				3			0
	10						
				4		- granitic rock at 11' - soil gas sample taken at 12'	0
	15					- soil gas sample taken at 15'	0
740				5		- moist, at 16'	0
	20						
	25						
730							
	30						
	35						
720							

COMPLETION DEPTH: 17 ft
DEPTH TO WATER: Not Encountered
CAVED TO DEPTH: No Caving
BACKFILLED WITH: Bentonite Grout
DRILLING DATE: May 27, 1993
* PID reading by Photovac, Microtip II

DRILLING METHOD: Cone Penetrometer
DRILLED BY: Fugro Geosciences
LOGGED BY: WCBorst
CHECKED BY: TDMatteucci

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

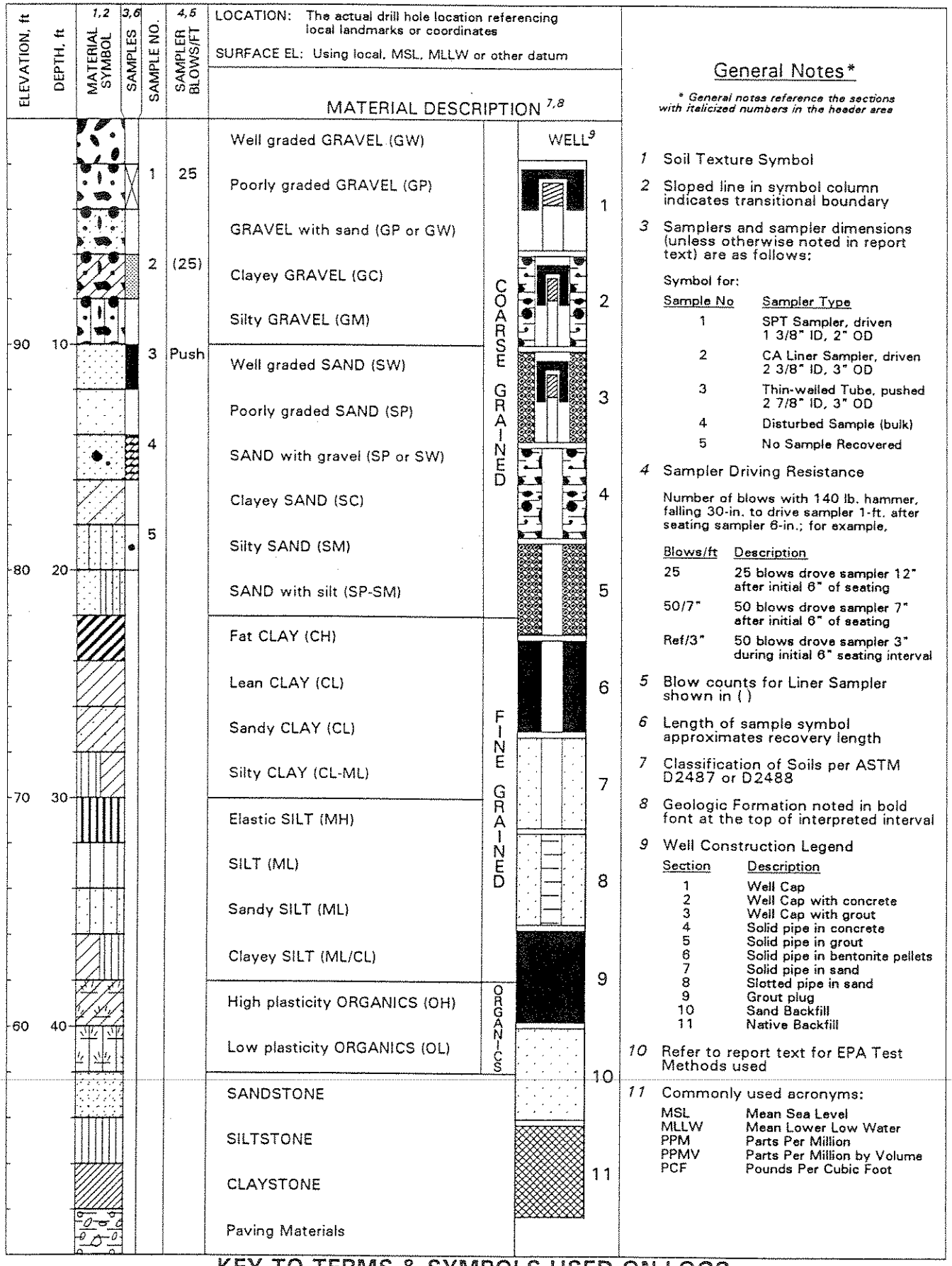
LOG OF DRILL HOLE NO. CPT-7

Former Maintenance Yard, Proposed Heliport Facility
7540 Wheatland Avenue, Los Angeles, California

3380#2

PLATE A-10

August 1993
Project No. 92-41-3392



General Notes*

** General notes reference the sections with italicized numbers in the header area*

1 Soil Texture Symbol

2 Sloped line in symbol column indicates transitional boundary

3 Samplers and sampler dimensions (unless otherwise noted in report text) are as follows:

Symbol for:

Sample No	Sampler Type
1	SPT Sampler, driven 1 3/8" ID, 2" OD
2	CA Liner Sampler, driven 2 3/8" ID, 3" OD
3	Thin-walled Tube, pushed 2 7/8" ID, 3" OD
4	Disturbed Sample (bulk)
5	No Sample Recovered

4 Sampler Driving Resistance

Number of blows with 140 lb. hammer, falling 30-in. to drive sampler 1-ft. after seating sampler 6-in.; for example,

Blows/ft	Description
25	25 blows drove sampler 12" after initial 6" of seating
50/7"	50 blows drove sampler 7" after initial 6" of seating
Ref/3"	50 blows drove sampler 3" during initial 6" seating interval

5 Blow counts for Liner Sampler shown in ( )

6 Length of sample symbol approximates recovery length

7 Classification of Soils per ASTM D2487 or D2488

8 Geologic Formation noted in bold font at the top of interpreted interval

9 Well Construction Legend

Section	Description
1	Well Cap
2	Well Cap with concrete
3	Well Cap with grout
4	Solid pipe in concrete
5	Solid pipe in grout
6	Solid pipe in bentonite pellets
7	Solid pipe in sand
8	Slotted pipe in sand
9	Grout plug
10	Sand Backfill
11	Native Backfill

10 Refer to report text for EPA Test Methods used

11 Commonly used acronyms:

MSL	Mean Sea Level
MLLW	Mean Lower Low Water
PPM	Parts Per Million
PPMV	Parts Per Million by Volume
PCF	Pounds Per Cubic Foot

KEY TO TERMS & SYMBOLS USED ON LOGS

PLATE A-14

BGPAA 0032

APPENDIX B

LABORATORY ANALYTICAL REPORTS

NATIONAL ENVIRONMENTAL TESTING, INC.

Burbank Division
700 South Flower Street
Burbank, CA 91502
Tel: (213) 849-6591
Fax: (818) 954-0232

DOHS Certificate Number: 1192
Expiration Date: May 31,1994

06/07/1993

Tom Matteucci
Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

Client Ref: Burbank Airport Maintenance
Date Received: 05/27/1993

Sample analysis for the project referred to above has been completed and results are located on attached pages.

Should you have questions regarding procedures or results, please feel welcome to contact our Client Services Representatives or the Laboratory Director.

Kimberly S. Banks
Kimberly S. Banks
Project Manager

Rick Schrynemeeckers
Rick Schrynemeeckers
Laboratory Director

KB:rm
Attachments:
- Analytical Reports
- Chain of Custody Document
- QA/QC Data Reports
- Invoice

Client Net Acct No: 13200
NET Job No: 93.00588

CASE NARRATIVE

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/07/1993

NET Job Number: 93.00588

Tom Matteucci

Following is the case narrative for the following samples submitted to NET, Inc. - Burbank for analysis:

I. CROSS REFERENCE TABLE:

Sample Number	Sample Description	Date Taken	Date Received
54169	CPT-6 @ 1/2'	05/27/1993	05/27/1993
54170	CPT-6 @ 8'	05/27/1993	05/28/1993
54171	CPT-7 @ 3'	05/27/1993	05/28/1993
54172	CPT-7 @ 8'	05/27/1993	05/28/1993
54173	CPT-1 @ 1/2'	05/27/1993	05/28/1993
54174	CPT-1 @ 8'	05/27/1993	05/28/1993
54175	CPT-6 @ 3'	05/27/1993	05/28/1993
54176	CPT-7 @ 11'	05/27/1993	05/28/1993
54177	CPT-1 @ 3'	05/27/1993	05/28/1993
54178	CPT-7 @ 16'	05/27/1993	05/28/1993

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

CASE NARRATIVE (cont.)

II. EXTRACTION: No exceptions were encountered.

III. ANALYSIS

A. Holding Times:

No exceptions were encountered.

B. Analytical Exceptions:

Motor oil was detected in samples analyzed for TPH as Diesel, these samples are flagged with a "n" qualifier.

Sample 54178 , analyzed for method 8240, showed trace levels of Ethyl benzene, this compound was flagged with a "J" qualifier indicating that the result is below the reported PQL.

IV. QUALITY CONTROL

A. Method Blanks:

No exceptions were encountered.

B. Surrogate Recoveries:

No exceptions were encountered.

C. Matrix Spike/Matrix Spike Duplicates (MS/MSD):

No exceptions were encountered.

D. Laboratory Control Samples (LCS):

No exceptions were encountered.

V. OTHER

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

NET Job No.: 93.00588
Sample ID : CPT-6 @ 1/2'
Lab No. : 54169

Date Sampled: 05/27/1993
Date Reported: 06/07/1993
Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	4.6		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)
PQL: Practical Quantitation Limit

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

NET Job No.: 93.00588
Sample ID : CPT-6 @ 8'
Lab No. : 54170

Date Sampled: 05/27/1993
Date Reported: 06/07/1993

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	ND		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)
PQL: Practical Quantitation Limit

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

NET Job No.: 93.00588
Sample ID : CPT-7 @ 3'
Lab No. : 54171

Date Sampled: 05/27/1993
Date Reported: 06/07/1993
Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	ND		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)
PQL: Practical Quantitation Limit

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

NET Job No.: 93.00588
Sample ID : CPT-7 @ 8'
Lab No. : 54172

Date Sampled: 05/27/1993
Date Reported: 06/07/1993

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	4.6		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)
PQL: Practical Quantitation Limit

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

NET Job No.: 93.00588
Sample ID : CPT-1 @ 1/2'
Lab No. : 54173

Date Sampled: 05/27/1993
Date Reported: 06/07/1993
Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	ND		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)
PQL: Practical Quantitation Limit

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

NET Job No.: 93.00588
Sample ID : CPT-1 @ 8'
Lab No. : 54174

Date Sampled: 05/27/1993
Date Reported: 06/07/1993

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
Method 418.1 (IR,TRPH)	418.1	76		mg/Kg	2	10	06/02/1993	skl

ND: Not detected at the Method Detection Limit (MDL)
PQL: Practical Quantitation Limit

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

NET Job No.: 93.00588
Sample ID : CPT-6 @ 3'
Lab No. : 54175

Date Sampled: 05/27/1993
Date Reported: 06/07/1993
Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
METHOD DOHS/LUFT,LDL								
Extraction Method	8015 MOD.	3550					06/04/1993	mmz
Date Extracted	8015 MOD.	06-02-93					06/04/1993	mmz
Dilution Factor	8015 MOD.	1					06/04/1993	mmz
TOT. PET. HYDROCARBON	8015 MOD.	--					06/04/1993	mmz
as Diesel	8015 MOD.	ND	n	mg/Kg	0.15	1	06/04/1993	mmz
Surrogate Spike-TPH	8015 MOD.	--					06/04/1993	mmz
Spk Conc Chlorobenzene	8015 MOD.	2.5		mg/Kg			06/04/1993	mmz
Chlorobenzene	8015 MOD.	82		% Rec.			06/04/1993	mmz
Spk Conc Di-n-octyl-phthalate	8015 MOD.	50		mg/Kg			06/04/1993	mmz
Di-n-octyl-phthalate	8015 MOD.	N/A		% Rec.			06/04/1993	mmz
METHOD 8020/8015 MOD. (LDLS)								
Date Extracted		06-02-93					06/02/1993	scn
Date Analyzed		06-02-93					06/02/1993	scn
Dilution Factor		1					06/02/1993	scn
AROMATIC VOLATILES		--					06/02/1993	scn
Benzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Ethylbenzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Toluene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Xylenes, total	8020	ND		mg/Kg	0.001	0.015	06/02/1993	scn
TOT. PET. HYDROCARBONS		--					06/02/1993	scn
as Gasoline	8015 MOD.	ND		mg/Kg	0.1	1.0	06/02/1993	scn
Surrogate Spk Conc.		0.024		mg/Kg			06/02/1993	scn
Surrogate Spike		--					06/02/1993	scn
Bromofluorobenzene	8020/8015	88		% Rec.			06/02/1993	scn

n: Motor Oil detected at 4.0 mg/Kg (estimated concentration, quantitated as Diesel).

ND: Not detected at the Method Detection Limit (MDL)
PQL: Practical Quantitation Limit

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

NET Job No.: 93.00588
Sample ID : CPT-7 @ 11'
Lab No. : 54176

Date Sampled: 05/27/1993
Date Reported: 06/07/1993
Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
METHOD DOHS/LUFT,LDL								
Extraction Method	8015 MOD.	3550					06/04/1993	mmz
Date Extracted	8015 MOD.	06-02-93					06/04/1993	mmz
Dilution Factor	8015 MOD.	1					06/04/1993	mmz
TOT. PET. HYDROCARBON	8015 MOD.	--					06/04/1993	mmz
as Diesel	8015 MOD.	ND	n	mg/Kg	0.15	1	06/04/1993	mmz
Surrogate Spike-TPH	8015 MOD.	--					06/04/1993	mmz
Spk Conc Chlorobenzene	8015 MOD.	2.5		mg/Kg			06/04/1993	mmz
Chlorobenzene	8015 MOD.	88		% Rec.			06/04/1993	mmz
Spk Conc Di-n-octyl-phthalate	8015 MOD.	50		mg/Kg			06/04/1993	mmz
Di-n-octyl-phthalate	8015 MOD.	N/A		% Rec.			06/04/1993	mmz
METHOD 8020/8015 MOD. (LDLS)								
Date Extracted		06-02-93					06/02/1993	scn
Date Analyzed		06-02-93					06/02/1993	scn
Dilution Factor		1					06/02/1993	scn
AROMATIC VOLATILES		--					06/02/1993	scn
Benzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Ethylbenzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Toluene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Xylenes, total	8020	ND		mg/Kg	0.001	0.015	06/02/1993	scn
TOT. PET. HYDROCARBONS		--					06/02/1993	scn
as Gasoline	8015 MOD.	ND		mg/Kg	0.1	1.0	06/02/1993	scn
Surrogate Spike Conc.		0.024		mg/Kg			06/02/1993	scn
Surrogate Spike		--					06/02/1993	scn
Bromofluorobenzene	8020/8015	91		% Rec.			06/02/1993	scn

n: Motor Oil detected at 4.8 mg/Kg (estimated concentration, quantitated as Diesel).

ND: Not detected at the Method Detection Limit (MDL)
PQL: Practical Quantitation Limit

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

NET Job No.: 93.00588
Sample ID : CPT-1 @ 3'
Lab No. : 54177

Date Sampled: 05/27/1993
Date Reported: 06/07/1993

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
METHOD DOHS/LUFT,LDL								
Extraction Method	8015 MOD.	3550					06/04/1993	mmz
Date Extracted	8015 MOD.	06-02-93					06/04/1993	mmz
Dilution Factor	8015 MOD.	1					06/04/1993	mmz
TOT. PET. HYDROCARBON	8015 MOD.	--					06/04/1993	mmz
as Diesel	8015 MOD.	ND	n	mg/Kg	0.15	1	06/04/1993	mmz
Surrogate Spike-TPH	8015 MOD.	--					06/04/1993	mmz
Spk Conc Chlorobenzene	8015 MOD.	2.5		mg/Kg			06/04/1993	mmz
Chlorobenzene	8015 MOD.	98		% Rec.			06/04/1993	mmz
Spk Conc Di-n-octyl-phthalate	8015 MOD.	50		mg/Kg			06/04/1993	mmz
Di-n-octyl-phthalate	8015 MOD.	N/A		% Rec.			06/04/1993	mmz
METHOD 8020/8015 MOD. (LDLS)								
Date Extracted		06-02-93					06/02/1993	scn
Date Analyzed		06-02-93					06/02/1993	scn
Dilution Factor		1					06/02/1993	scn
AROMATIC VOLATILES		--					06/02/1993	scn
Benzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Ethylbenzene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Toluene	8020	ND		mg/Kg	0.0003	0.005	06/02/1993	scn
Xylenes, total	8020	ND		mg/Kg	0.001	0.015	06/02/1993	scn
TOT. PET. HYDROCARBONS		--					06/02/1993	scn
as Gasoline	8015 MOD.	ND		mg/Kg	0.1	1.0	06/02/1993	scn
Surrogate Spike Conc.		0.024		mg/Kg			06/02/1993	scn
Surrogate Spike		--					06/02/1993	scn
Bromofluorobenzene	8020/8015	96		% Rec.			06/02/1993	scn

n: Motor Oil detected at 3.0 mg/Kg (estimated concentration, quantitated as Diesel).

ND: Not detected at the Method Detection Limit (MDL)
PQL: Practical Quantitation Limit

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

NET Job No.: 93.00588
Sample ID : CPT-7 @ 16'
Lab No. : 54178

Date Sampled: 05/27/1993
Date Reported: 06/07/1993

Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
METHOD 8240(GCMS,Solid)								
Extraction Method		5030					06/02/1993	shu
Date Extracted		06-02-93					06/02/1993	shu
Dilution Factor		1					06/02/1993	shu
Acetone	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
Benzene	8240	ND		ug/Kg	3.4	10	06/02/1993	shu
Bromodichloromethane	8240	ND		ug/Kg	0.9	5	06/02/1993	shu
Bromoform	8240	ND		ug/Kg	1.4	5	06/02/1993	shu
Bromomethane	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
2-Butanone	8240	ND		ug/Kg	4.0	10	06/02/1993	shu
Carbon disulfide	8240	ND		ug/Kg	0.4	5	06/02/1993	shu
Carbon tetrachloride	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
Chlorobenzene	8240	ND		ug/Kg	1.0	5	06/02/1993	shu
Chloroethane	8240	ND		ug/Kg	0.8	5	06/02/1993	shu
2-Chloroethyl vinyl ether	8240	ND		ug/Kg	0.7	10	06/02/1993	shu
Chloroform	8240	ND		ug/Kg	0.7	5	06/02/1993	shu
Chloromethane	8240	ND		ug/Kg	0.7	5	06/02/1993	shu
Dibromochloromethane	8240	ND		ug/Kg	1.2	5	06/02/1993	shu
1,2-Dichlorobenzene	8240	ND		ug/Kg	0.4	5	06/02/1993	shu
1,3-Dichlorobenzene	8240	ND		ug/Kg	0.4	5	06/02/1993	shu
1,4-Dichlorobenzene	8240	ND		ug/Kg	0.5	5	06/02/1993	shu
1,1-Dichloroethane	8240	ND		ug/Kg	0.7	5	06/02/1993	shu
1,2-Dichloroethane	8240	ND		ug/Kg	1.3	5	06/02/1993	shu
1,1-Dichloroethene	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
trans-1,2-Dichloroethene	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
1,2-Dichloropropane	8240	ND		ug/Kg	0.7	5	06/02/1993	shu
cis-1,3-Dichloropropene	8240	ND		ug/Kg	1.5	5	06/02/1993	shu
trans-1,3-Dichloropropene	8240	ND		ug/Kg	0.7	5	06/02/1993	shu
Ethyl benzene	8240	1.1	J	ug/Kg	0.7	5	06/02/1993	shu
2-Hexanone	8240	ND		ug/Kg	2.1	10	06/02/1993	shu
Methylene chloride	8240	ND		ug/Kg	1.5	10	06/02/1993	shu
4-Methyl-2-pentanone	8240	ND		ug/Kg	1.0	10	06/02/1993	shu
Styrene	8240	ND		ug/Kg	0.3	5	06/02/1993	shu
1,1,2,2-Tetrachloroethane	8240	ND		ug/Kg	2.0	5	06/02/1993	shu
Tetrachloroethene	8240	ND		ug/Kg	0.5	5	06/02/1993	shu
Toluene	8240	ND		ug/Kg	1.1	5	06/02/1993	shu
1,1,1-Trichloroethane	8240	ND		ug/Kg	0.6	5	06/02/1993	shu
1,1,2-Trichloroethane	8240	ND		ug/Kg	2.0	5	06/02/1993	shu
Trichloroethene	8240	ND		ug/Kg	0.9	5	06/02/1993	shu
Trichlorofluoromethane	8240	ND		ug/Kg	0.3	5	06/02/1993	shu
Vinyl acetate	8240	ND		ug/Kg	0.8	10	06/02/1993	shu
Vinyl chloride	8240	ND		ug/Kg	0.8	5	06/02/1993	shu
Xylenes (total)	8240	ND		ug/Kg	2.0	5	06/02/1993	shu
SURROGATE RESULTS		--					06/02/1993	shu
Spk Conc Toluene-d8	8240	25		ug/Kg			06/02/1993	shu
Toluene-d8	8240	101		% Rec.			06/02/1993	shu
Spk Conc Bromofluorobenzene	8240	25		ug/Kg			06/02/1993	shu
Bromofluorobenzene	8240	88		% Rec.			06/02/1993	shu
Spk Conc 1,2-DCA-d4	8240	25		ug/Kg			06/02/1993	shu
1,2-Dichloroethane-d4	8240	100		% Rec.			06/02/1993	shu

ND: Not detected at the Method Detection Limit (MDL)
PQL: Practical Quantitation Limit

QUALITY CONTROL REPORT

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

NET Job Number: 93.00588

Tom Matteucci

Enclosed is the Quality Control data for the following samples submitted to NET, Inc. - Burbank for analysis:

Sample Number	Sample Description	Date Taken	Date Received
54169	CPT-6 @ 1/2'	05/27/1993	05/27/1993
54170	CPT-6 @ 8'	05/27/1993	05/28/1993
54171	CPT-7 @ 3'	05/27/1993	05/28/1993
54172	CPT-7 @ 8'	05/27/1993	05/28/1993
54173	CPT-1 @ 1/2'	05/27/1993	05/28/1993
54174	CPT-1 @ 8'	05/27/1993	05/28/1993
54175	CPT-6 @ 3'	05/27/1993	05/28/1993
54176	CPT-7 @ 11'	05/27/1993	05/28/1993
54177	CPT-1 @ 3'	05/27/1993	05/28/1993
54178	CPT-7 @ 16'	05/27/1993	05/28/1993

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

QUALITY CONTROL REPORT
CONTINUING CALIBRATION VERIFICATION

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Run Batch Flags	CCV True Concentration	Concentration Found	Percent Recovery
Method 418.1 (IR,TRPH)		16		51	51	100.0
METHOD DOHS/LUFT,LDL						
as Diesel		164		500.0	513	102.6
Chlorobenzene		164		50.0	45.6	91.2
Di-n-octyl-phthalate		164		50.0	N/A	
METHOD 8020/8015 MOD. (LDLS)						
Benzene		86		20.0	19.5	97.5
Ethylbenzene		86		20.0	23.0	115.0
Toluene		86		20.0	22.3	111.5
Xylenes, total		86		60.0	66.3	110.5
as Gasoline		86		120.0	131.0	109.2
Bromofluorobenzene		86		20.0	22.25	111.3
METHOD 8240(GCMS,Solid)						
Acetone		84		50.0	58.1	116.2
Benzene		84		50.0	45.7	91.4
Bromodichloromethane		84		50.0	46.3	92.6
Bromoform		84		50.0	48.7	97.4
Bromomethane		84		50.0	50.1	100.2
2-Butanone		84		50.0	58.7	117.4
Carbon disulfide		84		50.0	55.9	111.8
Carbon tetrachloride		84		50.0	48.0	96.0
Chlorobenzene		84		50.0	48.0	96.0
Chloroethane		84		50.0	49.3	98.6
2-Chloroethyl vinyl ether		84		50.0	40.4	80.8
Chloroform		84		50.0	47.0	94.0

CCV - Continuing Calibration Verification

QUALITY CONTROL REPORT
CONTINUING CALIBRATION VERIFICATION

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Run Batch Flags	CCV True Concentration	Concentration Found	Percent Recovery
Chloromethane		84		50.0	48.9	97.8
Dibromochloromethane		84		50.0	44.2	88.4
1,2-Dichlorobenzene		84		50.0	41.3	82.6
1,3-Dichlorobenzene		84		50.0	43.4	86.8
1,4-Dichlorobenzene		84		50.0	43.7	87.4
1,1-Dichloroethane		84		50.0	45.8	91.6
1,2-Dichloroethane		84		50.0	47.6	95.2
1,1-Dichloroethene		84		50.0	48.5	97.0
trans-1,2-Dichloroethene		84		50.0	45.1	90.2
1,2-Dichloropropane		84		50.0	43.0	86.0
cis-1,3-Dichloropropene		84		50.0	46.0	92.0
trans-1,3-Dichloropropene		84		50.0	45.1	90.2
Ethyl benzene		84		50.0	48.0	96.0
2-Hexanone		84		50.0	45.4	90.8
Methylene chloride		84		50.0	46.0	92.0
4-Methyl-2-pentanone		84		50.0	45.2	90.4
Styrene		84		50.0	47.0	94.0
1,1,2,2-Tetrachloroethane		84		50.0	44.9	89.8
Tetrachloroethene		84		50.0	45.4	90.8
Toluene		84		50.0	46.2	92.4
1,1,1-Trichloroethane		84		50.0	49.0	98.0
1,1,2-Trichloroethane		84		50.0	44.6	89.2
Trichloroethene		84		50.0	45.7	91.4
Trichlorofluoromethane		84		50.0	56.1	112.2
Vinyl acetate		84		50.0	41.6	83.2

CCV - Continuing Calibration Verification

QUALITY CONTROL REPORT
CONTINUING CALIBRATION VERIFICATION

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Run Batch Flags	CCV True Concentration	Concentration Found	Percent Recovery
Vinyl chloride		84		50.0	50.5	101.0
Xylenes (total)		84		150	145	96.7
Toluene-d8		84		50	45.6	91.2
Bromofluorobenzene		84		50.0	50.1	100.2
1,2-Dichloroethane-d4		84		50	50.2	100.4

CCV - Continuing Calibration Verification

QUALITY CONTROL REPORT
BLANKS

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis	Flags	Units
Method 418.1 (IR,TRPH)		16	ND		mg/Kg
METHOD DOHS/LUFT,LDL					
as Diesel	3	164	ND		mg/Kg
Spk Conc Chlorobenzene	3	164	2.5		mg/Kg
Chlorobenzene	3	164	N/A		% Rec.
Spk Conc Di-n-octyl-phthalate	3	164	2.5		mg/Kg
Di-n-octyl-phthalate	3	164	114		% Rec.
METHOD 8020/8015 MOD. (LDLS)					
Benzene		86	ND		mg/Kg
Ethylbenzene		86	ND		mg/Kg
Toluene		86	ND		mg/Kg
Xylenes, total		86	ND		mg/Kg
as Gasoline		86	ND		mg/Kg
Bromofluorobenzene		86	104		% Rec.
METHOD 8240(GCMS,Solid)					
Acetone		84	ND		ug/Kg
Benzene		84	ND		ug/Kg
Bromodichloromethane		84	ND		ug/Kg
Bromoform		84	ND		ug/Kg
Bromomethane		84	ND		ug/Kg
2-Butanone		84	ND		ug/Kg
Carbon disulfide		84	ND		ug/Kg
Carbon tetrachloride		84	ND		ug/Kg
Chlorobenzene		84	ND		ug/Kg
Chloroethane		84	ND		ug/Kg
2-Chloroethyl vinyl ether		84	ND		ug/Kg
Chloroform		84	ND		ug/Kg
Chloromethane		84	ND		ug/Kg
Dibromochloromethane		84	ND		ug/Kg

Advisory Control Limits for Blanks:
Organics/Metals/Wet Chemistry/ Conventionals/GC - all compounds should be less than 1/2 the Reporting Limit.

QUALITY CONTROL REPORT
BLANKS

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis	Flags	Units
1,2-Dichlorobenzene		84	ND		ug/Kg
1,3-Dichlorobenzene		84	ND		ug/Kg
1,4-Dichlorobenzene		84	ND		ug/Kg
1,1-Dichloroethane		84	ND		ug/Kg
1,2-Dichloroethane		84	ND		ug/Kg
1,1-Dichloroethene		84	ND		ug/Kg
trans-1,2-Dichloroethene		84	ND		ug/Kg
1,2-Dichloropropane		84	ND		ug/Kg
cis-1,3-Dichloropropene		84	ND		ug/Kg
trans-1,3-Dichloropropene		84	ND		ug/Kg
Ethyl benzene		84	ND		ug/Kg
2-Hexanone		84	ND		ug/Kg
Methylene chloride		84	ND		ug/Kg
4-Methyl-2-pentanone		84	ND		ug/Kg
Styrene		84	ND		ug/Kg
1,1,2,2-Tetrachloroethane		84	ND		ug/Kg
Tetrachloroethene		84	ND		ug/Kg
Toluene		84	ND		ug/Kg
1,1,1-Trichloroethane		84	ND		ug/Kg
1,1,2-Trichloroethane		84	ND		ug/Kg
Trichloroethene		84	ND		ug/Kg
Trichlorofluoromethane		84	ND		ug/Kg
Vinyl acetate		84	ND		ug/Kg
Vinyl chloride		84	ND		ug/Kg
Xylenes (total)		84	ND		ug/Kg
Spk Conc Toluene-d8		84	25		ug/Kg
Toluene-d8		84	104		% Rec.
Spk Conc Bromofluorobenzene		84	25		ug/Kg
Bromofluorobenzene		84	100		% Rec.

Advisory Control Limits for Blanks:
Organics/Metals/Wet Chemistry/ Conventionals/GC - all compounds should be less than 1/2 the Reporting Limit.

QUALITY CONTROL REPORT
BLANKS

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis	Flags	Units
Spk Conc 1,2-DCA-d4		84	25		ug/Kg
1,2-Dichloroethane-d4		84	98		% Rec.

Advisory Control Limits for Blanks:
Organics/Metals/Wet Chemistry/ Conventionals/GC - all compounds should be less than 1/2 the Reporting Limit.

ADVISORY CONTROL LIMITS FOR BLANKS:

Organics/Metals/Wet Chemistry/ Conventionals/GC-
All compounds should be less than 1/2 the Reporting limit.

SURROGATE SPIKE RECOVERY (% RECOVERY) IN BLANKS AND SAMPLES:

	Soil/Sludge Matrix	Water Matrix
EPA Method 601/8010 for Volatiles:		
2-Chlorotoluene	70-130*	70-130*
EPA Method 602/8020 for Volatiles:		
Chlorobenzene	70-130*	70-130*
EPA Method 624/8240/8260 for Volatiles:		
1,2-Dichloroethane-d4	70-130*	70-130*
Toluene d-8	70-130*	70-130*
Bromofluorobenzene	70-130*	70-130*
EPA Method 625/8270 for Semi-Volatiles/ Base Neutral Acids		
2-Fluorophenol	25-121	21-100
Phenol -d5	24-113	10- 94
Nitrobenzene-d5	23-120	35-114
2-Fluorobiphenyl	30-115	43-116
Terphenyl-d14	18-137	33-141
2,4,6-Tribromophenol	19-122	10-123
Method 8015 Modified for Fuel Hydrocarbon as gas:		
Bromofluorobenzene	70-130*	70-130*
Method DOHS/LUFT as diesel/kerosene:		
Chlorobenzene	60-140*	60-140*
Di-octyl phthalate	60-140*	60-140*

*Advisory limits.

QUALITY CONTROL REPORT
LABORATORY CONTROL STANDARD

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588

Analyte	Prep Batch Number	Run Batch Number	LCS True Concentration	LCS Concentration Found	LCS % Recovery	LCS % RPD*	Flags	Units
Method 418.1 (IR,TRPH)		16	35	34	97.1			mg/Kg
METHOD DOHS/LUFT,LDL								
as Diesel	3	164	2	2.46	123.0			mg/Kg
Chlorobenzene	3	164	2.5	2.21	88.4			% Rec.
Di-n-octyl-phthalate	3	164	2.5	N/A	N/A			% Rec.
METHOD DOHS/LUFT,LDL								
as Diesel	3	164	2	1.89	94.5			mg/Kg
Chlorobenzene	3	164	2.5	2.58	103.2			% Rec.
Di-n-octyl-phthalate	3	164	2.5	N/A	N/A			% Rec.
METHOD 8020/8015 MOD. (LDLS)								
Benzene		86	0.024	0.0228	95.0			mg/Kg
Ethylbenzene		86	0.024	0.0246	102.5			mg/Kg
Toluene		86	0.024	0.0252	105.0			mg/Kg
Xylenes, total		86	0.072	0.0726	100.8			mg/Kg
as Gasoline		86	0.144	0.1452	100.8			mg/Kg
Bromofluorobenzene		86	0.024	0.0214	89.2			% Rec.
METHOD 8240(GCMS,Solid)								
Benzene		84	25	23.5	94.0			ug/Kg
Chlorobenzene		84	25	27.9	111.6			ug/Kg
1,1-Dichloroethene		84	25	25.9	103.6			ug/Kg
Toluene		84	25	24.0	96.0			ug/Kg
Trichloroethene		84	25	28.7	114.8			ug/Kg
Bromofluorobenzene		84	25	22.8	91.2			% Rec.
1,2-Dichloroethane-d4		84	25	23.6	94.4			% Rec.

LCS - Laboratory Control Standard

Advisory Control Limits - Inorganics - LCS recovery should be 80 - 120%.

*LCS/LCS DUPLICATE

ACCEPTANCE LIMITS

LABORATORY QUALITY CONTROL CHECK SAMPLE / LABORATORY CONTROL SAMPLE (LCS)

ANALYTE	ANALYTICAL METHOD	SOIL/SLUDGE MATRIX %R (RANGE)*	SOIL/SLUDGE MATRIX MAX % RPD**	WATER MATRIX %R (RANGE)*	WATER MATRIX MAX % RPD**
17 CAM Metals					
Antimony	6010	60-140	25	60-140	25
Arsenic	7061	80-120	20	80-120	20
Barium	6010	80-120	20	80-120	20
Beryllium	6010	80-120	20	80-120	20
Cadmium	6010	80-120	20	80-120	20
Chromium	6010	80-120	20	80-120	20
Cobalt	6010	80-120	20	80-120	20
Copper	6010	80-120	20	80-120	20
Lead	6010	80-120	20	80-120	20
Mercury	7471/7470	80-120	20	80-120	20
Molybdenum	6010	80-120	20	80-120	20
Nickel	6010	80-120	20	80-120	20
Selenium	7741	80-120	20	80-120	20
Silver	6010	80-120	20	80-120	20
Thallium	6010	80-120	20	80-120	20
Vanadium	6010	80-120	20	80-120	20
Zinc	6010	80-120	20	80-120	20
Volatiles	601/602/624/8010/8020/8260				
Dichloroethene		80-120	20	80-120	20
Trichloroethene		80-120	20	80-120	20
Benzene		80-120	20	80-120	20
Toluene		80-120	20	80-120	20
Chlorobenzene		80-120	20	80-120	20
Semi-Volatiles	625/8270 Base Neutral Acids				
1,2,4-Trichlorobenzene		38-107	23	39- 98	28
Acenaphthene		31-187	19	46-118	31
2,4-Dinitrotoluene		28- 89	47	24- 96	38
Pyrene		35-142	36	26-127	31
N-Nitrosodi-N-Propylamine		41-126	38	41-116	38
1,4-Dichlorobenzene		28-104	27	36- 97	28
Pentachlorophenol		17-109	47	9- 103	50
Phenol		26-90	35	12- 89	42
2-Chlorophenol		25-102	50	27-123	40
4-Chloro-3-methylphenol		26-103	39	23- 97	42
4-Nitrophenol		11-114	50	10- 80	50

* Advisory Control Limits

** % RPD for LCS/LCS Duplicate

ACCEPTANCE LIMITS

LABORATORY QUALITY CONTROL CHECK SAMPLE/
LABORATORY CONTROL SAMPLE (LCS)

ANALYTE	ANALYTICAL METHOD	SOIL/SLUDGE MATRIX %R (RANGE)	SOIL/SLUDGE MATRIX MAX % RPD**	WATER MATRIX %R (RANGE)	WATER MATRIX MAX %RPD**
Fuel Hydrocarbon Gas	8015 MOD.	80-120*	20*	80-120*	20*
Diesel		80-120*	20*	80-120*	20*
Total Recoverable Petroleum Hydrocarbon (TRPH)	418.1	80-120*	20*	80-120*	20*

* Advisory Limits
** % RPD for LCS/LCS Duplicate

QUALITY CONTROL REPORT
MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/23/1993

Tom Matteucci

NET Job Number: 93.00588
NET Matrix Spike Sample ID:

Analyte	Prep Batch Number	Run Batch Number	Matrix Spike Result	Sample Result	Spike/ MSD Amount	Units	Percent Recovery	MSD Result	Percent Recovery	MS/MSD RPD	Flags
Method 418.1 (IR,TRPH)		16	40	4.6	35	mg/Kg	101.1	40	101.1	0.0	
METHOD DOHS/LUFT,LDL											
as Diesel	3	164	5.1	ND	2.0	mg/Kg	255.0	8.0	400.0	44.3	n
METHOD 8020/8015 MOD. (LDLS											
as Gasoline		86	1,100	1,300	0.144	mg/Kg	-138888.	1,100	-138888.	0.0	m
METHOD 8020/8015 MOD. (LDLS											
Benzene		86	0.021	ND	0.024	mg/Kg	87.5	0.019	79.2	10.0	
Toluene		86	0.023	ND	0.024	mg/Kg	95.8	0.021	87.5	9.1	
as Gasoline		86	0.135	ND	0.144	mg/Kg	93.8	0.125	86.8	7.8	
METHOD 8240(GCMS,Solid)											
Benzene		84	21.2	ND	25	ug/Kg	84.8	24.5	98.0	14.4	
Chlorobenzene		84	26.9	ND	25	ug/Kg	107.6	26.1	104.4	3.0	
1,1-Dichloroethene		84	25.9	ND	25	ug/Kg	103.6	25.6	102.4	1.2	
Toluene		84	21.7	ND	25	ug/Kg	86.8	22.1	88.4	1.8	
Trichloroethene		84	22.3	ND	25	ug/Kg	89.2	25.0	100.0	11.3	

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

ACCEPTANCE LIMITS

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

ANALYTE	ANALYTICAL METHOD	SOIL/SLUDGE MATRIX %R (RANGE)	SOIL/SLUDGE MATRIX MAX % RPD	WATER MATRIX %R (RANGE)	WATER MATRIX MAX % RPD
17 CAM Metals					
Antimony	6010	20-125	25	50-120	20
Arsenic	7061	55-120	30	75-115	25
Barium	6010	75-120	20	80-120	25
Beryllium	6010	80-120	15	80-120	10
Cadmium	6010	80-120*	20	80-115	10
Chromium	6010	80-115	20	85-110	10
Cobalt	6010	75-115	25	80-110	10
Copper	6010	75-115	20	80-120*	15
Lead	6010	80-120*	20	80-120*	20
Mercury	7471/7470	60-120	15	60-120	15
Molybdenum	6010	80-120	15	85-115	10
Nickel	6010	80-115	15	80-120	15
Selenium	7741	50-125	30	60-125	25
Silver	6010	75-120*	15	75-120*	15
Thallium	6010	70-115	20	75-115	15
Vanadium	6010	80-115	10	85-115	10
Zinc	6010	75-120*	20	80-120*	15
Volatiles	601/602/624/8010/8020/8260				
Dichloroethene		70-130	25	70-130	25
Trichloroethene		70-130	25	70-130	25
Benzene		70-130	25	70-130	25
Toluene		70-130	25	70-130	25
Chlorobenzene		70-130	25	70-130	25
Semi-Volatiles	625/8270 Base Neutral Acids				
1,2,4-Trichlorobenzene		38-107	23	39- 98	28
Acenaphthene		31-187	19	46-118	31
2,4-Dinitrotoluene		28- 89	47	24- 96	38
Pyrene		35-142	36	26-127	31
N-Nitrosodi-N-Propylamine		41-126	38	41-116	38
1,4-Dichlorobenzene		28-104	27	36- 97	28
Pentachlorophenol		17-109	47	9- 103	50
Phenol		26-90	35	12- 89	42
2-Chlorophenol		25-102	50	27-123	40
4-Chloro-3-methylphenol		26-103	39	23- 97	42
4-Nitrophenol		11-114	50	10- 80	50

ACCEPTANCE LIMITS

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

ANALYTE	ANALYTICAL METHOD	SOIL/SLUDGE MATRIX %R (RANGE)	SOIL/SLUDGE MATRIX MAX % RPD	WATER MATRIX %R (RANGE)	WATER MATRIX MAX % RPD
Fuel Hydrocarbon	8015 MOD.				
Gas		70-130*	25*	70-130*	25*
Diesel		50-150*	25*	50-150*	25*
Total Recoverable Petroleum Hydrocarbon (TRPH)	418.1	70-130*	25*	70-130*	25*

*Advisory Limits

JOB NO	PROJECT NAME	LOCATION
92-41-3392	Burbank Glendale Pasadena Airport Tom Matteucci	~~Burbank Airport~~ 7540 Wheatland

Sample Identification	Date	Time	Sample Container (Size/Material)	Sample Type (Liquid, Soil, etc.)	Preservative	Analyses Requested A	B	C	D	E	F	Comments
CPT-6 @ ½ foot	5-27-93	1215	6" brass sleeve	Soil	ICC + cooler	X						will call with analyses
CPT-6 @ 3'	"	1220	"	Soil			X	X				
CPT-6 @ 8'	"	1230	"	Soil		X						
CPT-7 @ ½ foot	"	1240	"	"								
CPT-7 @ 3 feet	"	1255	"	"		X						
CPT-7 @ 8 feet	"	1310	"	"		X						
CPT-7 @ 11 feet	"	1320	"	"			X	X				
CPT-7 @ 16 feet WB	"	1355 ~~1345~~ WB	"	"					X			
CPT-1 @ ½ foot	"	1415	"	"		X						
CPT-1 @ 3'	"	1425	"	"			X	X				
CPT-1 @ 8'	"	1445	"	"		X						Fax arrived 5/28.
~~CPT-7 @ 12'~~	~~"~~	~~1330~~	~~Tedlar bag~~	~~gas~~								
~~CPT-7 @ 15'~~	~~"~~	~~1340~~	~~"~~	~~gas~~								

Relinquished By (Signature)	Date	Time	Received By (Signature)
Wendy Forst	5-27-93	1541	
	5/27/93	15 41	Helen Brown

Analyses:

A Trph (418.1)
B Fuel Fingerprint (8015 mod)
C BTXE (8020)
D VOC (8240)
E
F

CHAIN OF CUSTODY RECORD

BGPAA 0061

McClelland consultants

Form ENG-1.14 (12/84)

NATIONAL ENVIRONMENTAL TESTING, INC.®

Burbank Division
700 South Flower Street
Burbank, CA 91502
Tel: (213) 849-6591
Fax: (818) 954-0232

DOHS Certificate Number: 1192
Expiration Date: May 31,1994

06/10/1993

Tom Matteucci
Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

Client Ref: Burbank Airport Maintenance
Date Received: 05/27/1993

Sample analysis for the project referred to above has been completed and results are located on attached pages.

Should you have questions regarding procedures or results, please feel welcome to contact our Client Services Representatives or the Laboratory Director.

Kimberly S. Banks
Project Manager

Rick Schrynemeeckers
Laboratory Director

KB:rm
Attachments:
- Analytical Reports
- Chain of Custody Document
- QA/QC Data Reports
- Invoice

Client Net Acct No: 13200
NET Job No: 93.00623

OCEAN GROUP

CASE NARRATIVE

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

06/10/1993

NET Job Number: 93.00623

Tom Matteucci

Following is the case narrative for the following samples submitted to NET, Inc. - Burbank for analysis:

I. CROSS REFERENCE TABLE:

Sample Number	Sample Description	Date Taken	Date Received
54294	CPT-1 @ 8'	05/27/1993	05/27/1993

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

CASE NARRATIVE (cont.)

II. EXTRACTION:

No exceptions were encountered.

III. ANALYSIS

A. Holding Times:

No exceptions were encountered.

B. Analytical Exceptions:

Sample 54294, hydrocarbons heavier than diesel detected, sample flagged with an "o" qualifier.

IV. QUALITY CONTROL

A. Method Blanks:

No exceptions were encountered.

B. Surrogate Recoveries:

No exceptions were encountered.

C. Matrix Spike/Matrix Spike Duplicates (MS/MSD):

No MS/MSD performed due to insufficient sample volume.

D. Laboratory Control Samples (LCS):

The two LCS's associated with this sample failed the 80-120% advisory limits, but both were within the 70-130% control limits. The %RSD was within acceptance limits. The surrogate recovery was also within acceptance limits. No sample remained, so sample could not be re-analyzed.

V. OTHER

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport Maintenance

NET Job No.: 93.00623
Sample ID : CPT-1 @ 8'
Lab No. : 54294

Date Sampled: 05/27/1993
Date Reported: 06/10/1993
Sample Matrix: SOIL

Analytes	Method	Results	Flags	Units	MDL	PQL	Date Analyzed	Analyst
METHOD DOHS/LUFT,LDL								
Extraction Method	8015 MOD.	3550					06/10/1993	mmz
Date Extracted	8015 MOD.	06-09-93					06/10/1993	mmz
Dilution Factor	8015 MOD.	1					06/10/1993	mmz
TOT. PET. HYDROCARBON	8015 MOD.	--					06/10/1993	mmz
as Diesel	8015 MOD.	ND	o	mg/Kg	1.0	10	06/10/1993	mmz
Surrogate Spike-TPH	8015 MOD.	--					06/10/1993	mmz
Spk Conc Chlorobenzene	8015 MOD.	2.5		mg/Kg			06/10/1993	mmz
Chlorobenzene	8015 MOD.	115		% Rec.			06/10/1993	mmz
Spk Conc Di-n-octyl-phthalate	8015 MOD.	2.5		mg/Kg			06/10/1993	mmz
Di-n-octyl-phthalate	8015 MOD.	N/A		% Rec.			06/10/1993	mmz

o: Motor Oil detected at 24 mg/Kg (quantitated as Diesel) No other TPH components detected by this method.

ND: Not detected at the Method Detection Limit (MDL)
PQL: Practical Quantitation Limit

QUALITY CONTROL REPORT

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

07/06/1993

NET Job Number: 93.00623

Tom Matteucci

Enclosed is the Quality Control data for the following samples submitted to NET, Inc. - Burbank for analysis:

Sample Number	Sample Description	Date Taken	Date Received
54294	CPT-1 @ 8'	05/27/1993	05/27/1993

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

QUALITY CONTROL REPORT
CONTINUING CALIBRATION VERIFICATION

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

07/06/1993

Tom Matteucci

NET Job Number: 93.00623

Analyte	Prep Batch Number	Run Batch Number	Run Batch Flags	CCV True Concentration	Concentration Found	Percent Recovery
METHOD DOHS/LUFT,LDL						
as Diesel		167		500.0	526	105.2
Chlorobenzene		167		50.0	46.87	93.7
Di-n-octyl-phthalate		167		50.0	N/A	
METHOD DOHS/LUFT,LDL						
as Diesel		172		500.0	552	110.4
Chlorobenzene		172		50.0	47.75	95.5
Di-n-octyl-phthalate		172		50.0	N/A	

CCV - Continuing Calibration Verification

QUALITY CONTROL REPORT
BLANKS

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

07/06/1993

Tom Matteucci

NET Job Number: 93.00623

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis	Flags	Units
METHOD DOHS/LUFT,LDL					
as Diesel	4	172	ND		mg/Kg
Surrogate Spike-TPH	4	172	--		
Spk Conc Chlorobenzene	4	172	50		mg/Kg
Chlorobenzene	4	172	77		% Rec.
Spk Conc Di-n-octyl-phthalate	4	172	50		mg/Kg
Di-n-octyl-phthalate	4	172	N/A		% Rec.

Advisory Control Limits for Blanks:
Organics/Metals/Wet Chemistry/ Conventionals/GC - all compounds should be less than 1/2 the Reporting Limit.

ADVISORY CONTROL LIMITS FOR BLANKS:

Organics/Metals/Wet Chemistry/ Conventionals/GC-
All compounds should be less than 1/2 the Reporting limit.

SURROGATE SPIKE RECOVERY (% RECOVERY) IN BLANKS AND SAMPLES:

	Soil/Sludge Matrix	Water Matrix
EPA Method 601/8010 for Volatiles:		
2-Chlorotoluene	70-130*	70-130*
EPA Method 602/8020 for Volatiles:		
Chlorobenzene	70-130*	70-130*
EPA Method 624/8240/8260 for Volatiles:		
1,2-Dichloroethane-d4	70-130*	70-130*
Toluene d-8	70-130*	70-130*
Bromofluorobenzene	70-130*	70-130*
EPA Method 625/8270 for Semi-Volatiles/ Base Neutral Acids		
2-Fluorophenol	25-121	21-100
Phenol -d5	24-113	10- 94
Nitrobenzene-d5	23-120	35-114
2-Fluorobiphenyl	30-115	43-116
Terphenyl-d14	18-137	33-141
2,4,6-Tribromophenol	19-122	10-123
Method 8015 Modified for Fuel Hydrocarbon as gas:		
Bromofluorobenzene	70-130*	70-130*
Method DOHS/LUFT as diesel/kerosene:		
Chlorobenzene	60-140*	60-140*
Di-octyl phthalate	60-140*	60-140*

*Advisory limits.

QUALITY CONTROL REPORT
LABORATORY CONTROL STANDARD

Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

07/06/1993

Tom Matteucci

NET Job Number: 93.00623

Analyte	Prep Batch Number	Run Batch Number	LCS True Concentration	LCS Concentration Found	LCS % Recovery	LCS % RPD*	Flags	Units
METHOD DOHS/LUFT,LDL								
as Diesel	4	172	2	1.44	72.0	9.9		mg/Kg
Chlorobenzene	4	172	2.5	1.71	68.4			% Rec.
Di-n-octyl-phthalate	4	172	N/A	N/A	0			% Rec.
METHOD DOHS/LUFT,LDL								
as Diesel	4	172	2	1.59	79.5			mg/Kg
Chlorobenzene	4	172	2.5	1.86	74.4			% Rec.
Di-n-octyl-phthalate	4	172	N/A	N/A	0			% Rec.

LCS - Laboratory Control Standard

Advisory Control Limits - Inorganics - LCS recovery should be 80 - 120%.

*LCS/LCS DUPLICATE

ACCEPTANCE LIMITS

LABORATORY QUALITY CONTROL CHECK SAMPLE / LABORATORY CONTROL SAMPLE (LCS)

ANALYTE	ANALYTICAL METHOD	SOIL/SLUDGE MATRIX %R (RANGE)*	SOIL/SLUDGE MATRIX MAX % RPD**	WATER MATRIX %R (RANGE)*	WATER MATRIX MAX % RPD**
17 CAM Metals					
Antimony	6010	60-140	25	60-140	25
Arsenic	7061	80-120	20	80-120	20
Barium	6010	80-120	20	80-120	20
Beryllium	6010	80-120	20	80-120	20
Cadmium	6010	80-120	20	80-120	20
Chromium	6010	80-120	20	80-120	20
Cobalt	6010	80-120	20	80-120	20
Copper	6010	80-120	20	80-120	20
Lead	6010	80-120	20	80-120	20
Mercury	7471/7470	80-120	20	80-120	20
Molybdenum	6010	80-120	20	80-120	20
Nickel	6010	80-120	20	80-120	20
Selenium	7741	80-120	20	80-120	20
Silver	6010	80-120	20	80-120	20
Thallium	6010	80-120	20	80-120	20
Vanadium	6010	80-120	20	80-120	20
Zinc	6010	80-120	20	80-120	20
Volatiles	601/602/624/8010/8020/8260				
Dichloroethene		80-120	20	80-120	20
Trichloroethene		80-120	20	80-120	20
Benzene		80-120	20	80-120	20
Toluene		80-120	20	80-120	20
Chlorobenzene		80-120	20	80-120	20
Semi-Volatiles	625/8270 Base Neutral Acids				
1,2,4-Trichlorobenzene		38-107	23	39- 98	28
Acenaphthene		31-187	19	46-118	31
2,4-Dinitrotoluene		28- 89	47	24- 96	38
Pyrene		35-142	36	26-127	31
N-Nitrosodi-N-Propylamine		41-126	38	41-116	38
1,4-Dichlorobenzene		28-104	27	36- 97	28
Pentachlorophenol		17-109	47	9- 103	50
Phenol		26-90	35	12- 89	42
2-Chlorophenol		25-102	50	27-123	40
4-Chloro-3-methylphenol		26-103	39	23- 97	42
4-Nitrophenol		11-114	50	10- 80	50

* Advisory Control Limits

** % RPD for LCS/LCS Duplicate

ACCEPTANCE LIMITS

LABORATORY QUALITY CONTROL CHECK SAMPLE/
LABORATORY CONTROL SAMPLE (LCS)

ANALYTE	ANALYTICAL METHOD	SOIL/SLUDGE MATRIX %R (RANGE)	SOIL/SLUDGE MATRIX MAX % RPD**	WATER MATRIX %R (RANGE)	WATER MATRIX MAX %RPD**
Fuel Hydrocarbon Gas	8015 MOD.	80-120*	20*	80-120*	20*
Diesel		80-120*	20*	80-120*	20*
Total Recoverable Petroleum Hydrocarbon (TRPH)	418.1	80-120*	20*	80-120*	20*

* Advisory Limits
** % RPD for LCS/LCS Duplicate

NET® NATIONAL ENVIRONMENTAL TESTING, INC.

Burbank Division
700 South Flower Street
Burbank, CA 91502
Tel: (213) 849-6591
Fax: (818) 954-0232

DOHS Certificate Number: 1192
LACSD Lab I.D. Number: 10158

07/01/1993

Tom Matteucci
Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

RECEIVED
JUL 13 1993
FL... (WESO), Inc.

Client Ref: Burbank Airport
Date Received: 05/20/1993

Sample analysis for the project referred to above has been completed and results are located on attached pages.

Should you have questions regarding procedures or results, please feel welcome to contact our Client Services Representatives or the Laboratory Director.

Kimberly S. Banks

Kimberly S. Banks
Project Manager

KB:rm
Attachments:
Analytical Reports
Chain of Custody Document

Client Net Acct No: 13200
NET Job No: 93.00687

OCEAN GROUP

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport

NET Job No.: 93.00687

Date Taken: 05/20/1993
Date Reported: 07/01/1993

Sample ID : Stained Surface near DH-10

Lab No. : 54745

Sample Matrix: SOIL

ANALYTES/METHOD		METHOD	RESULTS	UNITS	REPORTING LIMIT
17 CAM Metals, Total					
Antimony	(ICP)	6010	ND	mg/Kg	10
Arsenic	(GFAA)	7060	37	mg/Kg	0.5
Barium	(ICP)	6010	110	mg/Kg	2.0
Beryllium	(ICP)	6010	ND	mg/Kg	2.0
Cadmium	(ICP)	6010	ND	mg/Kg	2.0
Chromium	(ICP)	6010	42	mg/Kg	2.0
Cobalt	(ICP)	6010	7.3	mg/Kg	5.0
Copper	(ICP)	6010	61	mg/Kg	2.0
Lead	(GFAA)	7421	300	mg/Kg	0.2
Mercury	(CVAA)	7471	0.3	mg/Kg	0.1
Molybdenum	(ICP)	6010	ND	mg/Kg	5.0
Nickel	(ICP)	6010	21	mg/Kg	5.0
Selenium	(GFAA)	7740	ND	mg/Kg	0.5
Silver	(ICP)	6010	ND	mg/Kg	2.0
Thallium	(ICP)	6010	ND	mg/Kg	20
Vanadium	(ICP)	6010	24	mg/Kg	5.0
Zinc	(ICP)	6010	180	mg/Kg	5.0

ND - Not Detected at the Reporting Limit

JOB NO 92-41-3392 | PROJECT NAME Burbank Airport | LOCATION Wheatland

CHAIN OF CUSTODY RECORD

McClelland consultants

Sample Identification	Date	Time	Sample Container (Size/Material)	Sample Type (Liquid, Soil, etc.)	Preservative	Analyses Requested A	B	C	D	E	F	Comments
Stained Surface near DH-10	5-20-93	1700	3" long 2½" diam sleeve	Soil	ice							Analyses to follow
West Side Wall @ 2'	5-20-93	0900	↓	↓	↓							
East Sidewall @ 2'	"	0905										
Spoil Pile-North	"	0910										
Spoil Pile-South	"	0915										

Relinquished By (Signature)	Date	Time	Received By (Signature)
Wendy Borst	5-20-93	1700	[illegible]

Analyses:
A
B
C
D
E
F

Form ENG-114 (12/84)

BCPAA-0075

NATIONAL ENVIRONMENTAL TESTING, INC.

Burbank Division
700 South Flower Street
Burbank, CA 91502
Tel: (213) 849-6591
Fax: (818) 567-6477

DOHS Certificate Number: 1192
LACSD Lab I.D. Number: 10158

RECEIVED
JUL 30 1993
Fugro-McClelland (West), Inc.

07/28/1993

Tom Matteucci
Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

Client Ref: Burbank Airport
Date Received: 05/20/1993

Sample analysis for the project referred to above has been completed and results are located on attached pages.

Should you have questions regarding procedures or results, please feel welcome to contact our Client Services Representatives or the Laboratory Director.

Kimberly S. Banks
Kimberly S. Banks
Project Manager

KB:rm
Attachments:
Analytical Reports
Chain of Custody Document

Client Net Acct No: 13200
NET Job No: 93.00817

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport

NET Job No.: 93.00817

Date Taken: 05/20/1993
Date Reported: 07/28/1993

Sample ID : Stained Surface near DH-10

Lab No. : 55376

Sample Matrix: SOIL

ANALYTES/METHOD	METHOD	RESULTS	UNITS	REPORTING LIMIT
Extraction (WET)		DONE		
METALS Soluble/ STLC				
Lead (GFAA)	7421	16	mg/L	0.01

ND - Not Detected at the Reporting Limit

JOB NO. 92-41-93312 | PROJECT NAME Burbank Airport | LOCATION Wheatland

Sample Identification	Date	Time	Sample Container (Size/Material)	Sample Type (Liquid, Soil, etc.)	Preser-vative	Analyses Requested A	B	C	D	E	F	Comments
✓ Stained Surface near DH-10	5-20-93	1700	3" long 2½" diam sleeve	Soil	Ice							Analyses to follow
✓ West Side Wall @ 2'	5-20-93	0900	↓	↓	↓							
✓ East Sidewall @ 2'	"	0905										
✓ Spoil Pile-North	"	0910										
✓ Spoil Pile-South	"	0915										

Relinquished By (Signature)	Date	Time	Received By (Signature)
Wendy Borst	5-20-93	1700	[illegible]

Analyses :
A
B
C
D
E
F

CHAIN OF CUSTODY RECORD

McClelland consultants

BCPAA 0078

NATIONAL ENVIRONMENTAL TESTING, INC.

Burbank Division
700 South Flower Street
Burbank, CA 91502
Tel: (213) 849-6591
Fax: (818) 567-6477

RECEIVED
AUG 05 1993
Fugro-McClelland (West), Inc.

DOHS Certificate Number: 1192
LACSD Lab I.D. Number: 10158

08/02/1993

Tom Matteucci
Fugro-McClelland
5855 Olivas Park Drive
Ventura, CA 93003

Client Ref: Burbank Airport/92-41-3392
Date Received: 05/20/1993

Sample analysis for the project referred to above has been completed and results are located on attached pages.

Should you have questions regarding procedures or results, please feel welcome to contact our Client Services Representatives or the Laboratory Director.

Kimberly S Banks

Kimberly S. Banks
Project Manager

KB:rth
Attachments:
Analytical Reports
Chain of Custody Document

Client No: 13200
NET Job No: 93.00837

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport/92-41-3392
NET Job No.: 93.00837

Sample Matrix:	SOIL	SOIL	SOIL
Sample Date:	05/20/1993	05/20/1993	05/20/1993
Sample ID :	DH-8 @ 0.5	DH-8 @ 3'	DH-9 @ .5'
Lab No. :	55472	55473	55474

ANALYTES/METHOD	METHOD	R.L.	UNITS	RESULTS		
Extraction (WET)				DONE	DONE	DONE
METALS Soluble/ STLC						
Lead (FLAA)	239.1	0.05	mg/L	0.63	ND	0.98

ND - Not Detected at the Reporting Limit

Client Name: Fugro-McClelland
Client Ref.: Burbank Airport/92-41-3392
NET Job No.: 93.00837

Sample Matrix:	SOIL	SOIL	SOIL
Sample Date:	05/20/1993	05/20/1993	05/20/1993
Sample ID :	DH-9 @ 3'	DH-10 @ 3'	DH-10 @ 0.5'
Lab No. :	55475	55476	55480

ANALYTES/METHOD	METHOD	R.L.	UNITS	RESULTS		
Extraction (WET)				DONE	DONE	DONE
METALS Soluble/ STLC						
Lead (FLAA)	239.1	0.05	mg/L	0.10	ND	0.34

ND - Not Detected at the Reporting Limit

73.00334

JOB NO	PROJECT NAME	LOCATION
92-41-3392	Burbank Airport	7540 Wheatland

CHAIN OF CUSTODY RECORD

Sample Identification	Date	Time	Sample Container (Size/Material)	Sample Type (Liquid, Soil, etc.)	Preservative	Analyses Requested A	B	C	D	E	F	Comments
DH-9 WB @ 1/2'	5/20/93	~~1500~~ 1535	3" long 2" diam sleeve	soil	ice							
DH-9 @ 3'		1540 ~~1545~~										
DH-9 @ 8'		1550 ~~1555~~										
DH-8 @ 8'		1525										
DH-10 @ 1/2'		1605										
DH-10 @ 3'		1610										
DH-10 @ 8'		1620										

Relinquished By (Signature)	Date	Time	Received By (Signature)
Wendy Borst	5-20-93	1700	[illegible]

Analyses:
A
B
C
D
E
F

McClelland consultants

BGPAA 0083

92-41-3342 | Burbank Airport

LOCATION 7540 Wheatland

CHAIN OF CUSTODY RECORD

McClelland consultants

Sample Identification	Date	Time	Sample Container (Size/Material)	Sample Type (Liquid, Soil, etc.)	Preservative	Analyses Requested A	B	C	D	E	F	Comments
DH-4 @ 10'	5/20/93	1205	2½" diam 3' long ~~sleeves~~	Soil	ice							Analyses will follow
DH-4 @ 15'		1225										
DH-5 @ 2½'		1300										
DH-5 @ 5'		1310										
DH-5 @ 7½'		1330										
DH-5 @ 12½		1340										
DH-6 @ 10'		1350										
~~DH-6 @ 15'~~		~~1400~~										not sampled
DH-7 @ 10'		1425										
DH-7 @ 15'		1435										
DH-8 @ ½'		1500										
DH-8 @ 3'		1510										
DH-Y MS/MSD												All test
DH-X MSD/MS												418.1

Relinquished By (Signature)	Date	Time	Received By (Signature)
Wendy Borst	5-20-93	1700	[illegible]

Analyses:
A
B
C
D
E
F

BGPAA 0084

APPENDIX C

WASTE MANIFESTS

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA0918061947475 0
Manifest Document No.
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Burbank Glendale Pasadena Airport Authority
2627 Hollywood Way, [redacted] Burbank, Ca. 91505
4. Generator's Phone (818) 840-9456

A. State Manifest Document Number: 92747750
B. State Generator's ID
C. State Transporter's ID: 410727
D. Transporter's Phone: 805-641-9963
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: 805-832-3[illegible]

5. Transporter 1 Company Name: OST
6. US EPA ID Number: CAD027160344 6
7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Gibson Environmental
End of Commercial Way
Bakersfield, Ca 93308
10. US EPA ID Number: CAD098058317 7

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. RQ Hazardous Waste Solid NOS ORM-E NA 9189	001	DT	00015	Y	State 611 EPA/Other D008
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
Federal Id 2222
K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Wear appropriate personal protective equipment.
In case of emergency call 818 840-9456

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
Wendy Borst for Dan Feger, Airport Authority	Wendy Borst	08	11	93

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
JOHN O'KELLEY	John O'Kelley	08	11	93

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

DO NOT WRITE BELOW THIS LINE.

Blue: GENERATOR SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
P.O. Box 806, Sacramento, CA [illegible]

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

DTSC 8022A (7/92)
EPA 8700—22

ENSR INTERNATIONAL

ENSR International
315 Arden Avenue
Suite 24
Glendale, CA 91203-1148
(818) 546-2090
FAX (818) 546-2091
www.ensr.com

October 12, 2001
Project No. 01123-016
Work Order No. 29.1, Document No. 5

Mr. Alex Carlos
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013

Re: **Soil Vapor Survey Laboratory Data, Former Plant B-6 - Building 360 Complex, Burbank, California**

Dear Mr. Carlos:

On behalf of the Burbank-Glendale-Pasadena Airport Authority (BGPAA), ENSR is pleased to present the laboratory reports for the previous soil vapor sampling conducted by Fugro/ENSR on the Lockheed B-6 site. As we discussed, I have included the laboratory packets for soil vapor sampling conducted in Parcels F and G, associated with the Former Building 360 Complex.

These laboratory reports are presented in support of our report entitled ***"Environmental Monitoring Report, Former Plant B-6 – Building 360 Complex, Burbank, California"***, dated October 3, 2001. That report provided shallow soil vapor data from previous surveys conducted by Tetra Tech and Fugro/ENSR in 1996 and 1997. The data was provided in support of a "no further action" (NFA) status for the property. The attached laboratory reports present documentation for the Fugro/ENSR sampled points, designated by the prefix "FSV" and "GSV". The Tetra Tech sampled points are prefixed with "ASG" and "A2SG". The laboratory reports for the Tetra Tech data is not readily available.

The laboratory data for the shallow soil vapor samples is included in a series of 5 laboratory packets. The samples were analyzed and reported in the order they were sampled, therefore, Table A, *Soil Vapor Results Cross-Referenced to Laboratory Packet*, provides the necessary cross-reference to find the laboratory results for each soil vapor point. This table should be used in concert with the October 3, 2001 report and the data packets to find the actual reported EPA 8260 results.

I hope this information will assist you in developing a NFA letter for this portion of the former B-6 property. If you have any questions or require further clarification regarding the report or the data presented, please contact L. David Parker in our Glendale office at 818-546-2090.

Sincerely,

L. David Parker
Project Manager

Table A
Soil Vapor Results Cross-Referenced to Laboratory Packet

Probe No.	Analysis	Data Package #
PARCEL F		
FSV-001	VOC	SDG 1D013
FSV-002	VOC	SDG 1D013
FSV-003	VOC	SDG 1D013
FSV-004	VOC	SDG 1D013
FSV-005	VOC	SDG 1D013
FSV-006	VOC	SDG 1D013
FSV-007	VOC	SDG 1D013
FSV-008	VOC	SDG 1D013
FSV-009	VOC	SGD 1D011
FSV-010	VOC	SGD 1D011
FSV-011	VOC	SGD 1D011
FSV-012	VOC	SGD 1D011
FSV-013	VOC	SDG 1D013
FSV-014	VOC	SDG 1D013
PARCEL G		
GSV-001	VOC	SGD 1D010
GSV-002	VOC	SGD 1D010
GSV-003	VOC	SGD 1D010
GSV-004	VOC	SGD 1D010
GSV-005	VOC	SDG 1D013
GSV-007	VOC	SGD 1D018
GSV-008	VOC	SGD 1D018
GSV-009	VOC	SGD 1D010
GSV-010	VOC	SGD 1D010
GSV-011	VOC	SGD 1D010
GSV-012	VOC	SGD 1D010
GSV-013	VOC	SGD 1D010
GSV-016	VOC	SGD 1D018
GSV-017	VOC	SGD 1D018
GSV-018	VOC	SDG 1D013
GSV-019	VOC	SDG 1D013
GSV-021	VOC	SDG 1D001
GSV-025	VOC	SGD 1D018
GSV-026	VOC	SGD 1D018
GSV-027	VOC	SGD 1D011
GSV-028	VOC	SDG 1D013
GSV-029	VOC	SDG 1D013
GSV-030	VOC	SDG 1D001
GSV-031	VOC	SDG 1D001
GSV-032	VOC	SDG 1D001
GSV-033	VOC	SDG 1D001
GSV-035	VOC	SGD 1D018
GSV-036	VOC	SGD 1D018
GSV-037	VOC	SDG 1D013
GSV-038	VOC	SGD 1D011

Table A
Soil Vapor Results Cross-Referenced to Laboratory Packet

GSV-039	VOC	SDG 1D013
GSV-040	VOC	SDG 1D001
GSV-041	VOC	SDG 1D001
GSV-042	VOC	SDG 1D001
GSV-043	VOC	SDG 1D001
GSV-044	VOC	SGD 1D018
GSV-045	VOC	SGD 1D011
GSV-046	VOC	SGD 1D011
GSV-047	VOC	SGD 1D011
GSV-048	VOC	SGD 1D011
GSV-049	VOC	SDG 1D001
GSV-050	VOC	SDG 1D001
GSV-051	VOC	SGD 1D018
GSV-052	VOC	SGD 1D011
GSV-053	VOC	SGD 1D011
GSV-054	VOC	SGD 1D011
GSV-055	VOC	SGD 1D011
GSV-056	VOC	SGD 1D011
GSV-058	VOC	SDG 1D001
GSV-059	VOC	SGD 1D018
GSV-060	VOC	SGD 1D011
GSV-061	VOC	SGD 1D011
GSV-062	VOC	SGD 1D011
GSV-063	VOC	SGD 1D011
GSV-064	VOC	SGD 1D011
GSV-065	VOC	SGD 1D011
GSV-066	VOC	SGD 1D011
GSV-067	VOC	SGD 1D018
GSV-068	VOC	SDG 1D013
GSV-069	VOC	SDG 1D013
GSV-070	VOC	SDG 1D013
GSV-071	VOC	SDG 1D013
GSV-072	VOC	SGD 1D011

SDG 1D001 BURBANK AIRPORT

DATA PACKAGE - 8260 Analysis-Soil Vapor

Prepared By:

ONSITE ENVIRONMENTAL LABORATORIES

Submitted To:

FUGRO WEST

28/35

January 1997

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Onsite Environmental Laboratories, Inc.

Address: 5500 Boscell Common
Fremont, CA 94538

Telephone/FAX: (510) 490-8571 / (510) 490-8572

ELAP Certification No. 1774 Expiration Date: 7/31/98

Authorized Signature
Name, Title (print) Gareth Voigt, Laboratory Director

Signature, Date Gareth Voigt 1/17/97

Client Name: Fugro West, Inc.

Project No.: 9636-0541

Date(s) Sampled: 1/3/97 To same

Date(s) received: 1/3/97 To same

Date(s) reported: 1/6/97

Chain of custody received: Yes ____ No ____

Comments: ____

(RWQCB LabForm;Ver12/94)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses	# of Samples	# of Samples Subcontracted

30 soil vapor & air Samples for 8260

Sample Condition: Acceptable

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample condition:

(RWQCB LabForm;Ver12/94)

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Date: February 4, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D001

Samples were received by ONSITE Mobile Laboratory # 1 on January 3, 1997 1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D001-01	EQUIP. BLANK	January 3, 1997	February 4, 1997	
1D001-02	EQUIP. BLANK	January 3, 1997	February 4, 1997	
1D001-03	GSV-58-10	January 3, 1997	February 4, 1997	
1D001-04	GSV-33-10	January 3, 1997	February 4, 1997	
1D001-05	GSV-58-20	January 3, 1997	February 4, 1997	
1D001-06	GSV-33-20	January 3, 1997	February 4, 1997	
1D001-07	GSV-50-10	January 3, 1997	February 4, 1997	
1D001-08	GSV-42-10	January 3, 1997	February 4, 1997	
1D001-09	GSV-42-20	January 3, 1997	February 4, 1997	
1D001-10	GSV-41-10	January 3, 1997	February 4, 1997	
1D001-11	GSV-41-20	January 3, 1997	February 4, 1997	
1D001-12	GSV-50-10	January 3, 1997	February 4, 1997	8
1D001-13	GSV-50-10D	January 3, 1997	February 4, 1997	8
1D001-14	GSV-50-20	January 3, 1997	February 4, 1997	
1D001-15	GSV-43-10	January 3, 1997	February 4, 1997	
1D001-16	GSV-43-20	January 3, 1997	February 4, 1997	
1D001-17	GSV-40-10	January 3, 1997	February 4, 1997	
1D001-18	GSV-40-20	January 3, 1997	February 4, 1997	
1D001-19	GSV-49-10	January 3, 1997	February 4, 1997	
1D001-20	GSV-32-10	January 3, 1997	February 4, 1997	
1D001-21	GSV-49-20	January 3, 1997	February 4, 1997	
1D001-22	GSV-32-20	January 3, 1997	February 4, 1997	
1D001-23	GSV-31-10	January 3, 1997	February 4, 1997	
1D001-24	GSV-32-20	January 3, 1997	February 4, 1997	
1D001-25	GSV-21-10	January 3, 1997	February 4, 1997	
1D001-26	GSV-21-20	January 3, 1997	February 4, 1997	8
1D001-27	GSV-21-20D	January 3, 1997	February 4, 1997	8
1D001-28	GSV-30-10	January 3, 1997	February 4, 1997	
1D001-29	GSV-30-20	January 3, 1997	February 4, 1997	
1D001-30	TRIP BLK.	January 3, 1997	February 4, 1997	

1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.

Printed on recycled paper.

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates: All surrogate recoveries were within acceptable parameters.
6a. Surrogates: Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates: Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Not enough sample was received to perform requested analysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

Printed on recycled paper.

ANALYTICAL RESULTS SUMMARY

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97
		LAB SAMPLE ID	1D001-01	1D001-02	1D001-03	1D001-04	1D001-05	1D001-06	1D001-07
		CLIENT SAMPLE ID	Equip. Blank	Equip. Blank	GSV-58-10	GSV-33-10	GSV-58-20	GSV-33-20	GSV-50-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL	MB	MB					
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	12 J	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	84%	102%	84%	100%	84%	99%	86%
Toluene-d8	50	80%-115%	92%	90%	92%	89%	92%	89%	92%
4-Bromofluorobenzene	50	75%-125%	93%	91%	94%	92%	92%	90%	92%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gordy Vogt
Laboratory Director

FEB 5 - 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97
		LAB SAMPLE ID	1D001-08	1D001-09	1D001-10	1D001-11	1D001-12	1D001-13	1D001-14
		CLIENT SAMPLE ID	GSV-42-10	GSV-42-20	GSV-41-10	GSV-41-20	GSV-50-10	GSV-50-100	GSV-50-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	1.5
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	1.4 J	ND	ND	ND	ND	ND	4.3 J
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	97%	94%	100%	100%	104%	82%	101%
Toluene-d8	50	80%-115%	88%	87%	89%	88%	90%	91%	89%
4-Bromofluorobenzene	50	75%-125%	92%	90%	90%	92%	91%	91%	92%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Vogt
Laboratory Director

FEB 5 - 1997
Date

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ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97
		LAB SAMPLE ID	1D001-15	1D001-16	1D001-17	1D001-18	1D001-19	1D001-20	1D001-21
		CLIENT SAMPLE ID	GSV-43-10	GSV-43-20	GSV-40-10	GSV-40-20	GSV-49-10	GSV-32-10	GSV-49-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	14 J	3.1 J	ND	ND	1.3 J	ND	1.6 J
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	80%	102%	81%	101%	84%	87%	102%
Toluene-d8	50	80%-115%	90%	90%	92%	89%	92%	92%	87%
4-Bromofluorobenzene	50	75%-125%	91%	91%	91%	94%	90%	92%	92%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 5 - 1997
Date

Printed on recycled paper.

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97	1/3/97
		LAB SAMPLE ID	1D001-22	1D001-23	1D001-24	1D001-25	1D001-26	1D001-27	1D001-28
		CLIENT SAMPLE ID	GSV-32-20	GSV-31-10	GSV-32-20	GSV-21-10	GSV-21-20	GSV-21-20D	GSV-30-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	83%	101%	102%	92%	98%	92%	85%
Toluene-d8	50	80%-115%	91%	89%	89%	92%	88%	92%	92%
4-Bromofluorobenzene	50	75%-125%	88%	92%	92%	92%	89%	93%	90%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Vorgt
Laboratory Director

FEB 5 - 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/3/97	1/3/97
		LAB SAMPLE ID	1D001-29	1D001-30
		CLIENT SAMPLE ID	GSV-30-20	TRIP BLK
		DILUTION FACTOR	0.1	0.25
COMPOUND		CRDL		
Benzene		1	ND	ND
Bromodichloromethane		1	ND	ND
Bromoform		1	ND	ND
Bromomethane		1	ND	ND
Carbon tetrachloride		1	ND	ND
Chlorobenzene		1	ND	ND
Chloroethane		1	ND	ND
Chloroform		1	ND	ND
Chloromethane		1	ND	ND
Dibromochloromethane		1	ND	ND
1,2-Dichlorobenzene		1	ND	ND
1,3-Dichlorobenzene		1	ND	ND
1,4-Dichlorobenzene		1	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND
1,2-Dichloropropane		1	ND	ND
cis-1,3-Dichloropropene		1	ND	ND
trans-1,3-Dichloropropene		1	ND	ND
Ethyl benzene		1	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND
Tetrachloroethene (PCE)		1	ND	ND
Toluene		1	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND
Trichloroethene (TCE)		1	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND
m,p-Xylenes		1	ND	ND
o-Xylene		1	ND	ND
Vinyl chloride (VC)		1	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC
Dibromofluoromethane	50	75%-110%	102%	92%
Toluene-d8	50	80%-115%	88%	92%
4-Bromofluorobenzene	50	75%-125%	93%	93%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gerald Voigt

Laboratory Director

FEB 5 - 1997

Date

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QA/QC RESULTS SUMMARY

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 1/3/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

LAB LCS ID: LCS 1/3 MS2

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	21.3	85%	80%-120%
Bromodichloromethane	25	21.4	85%	80%-120%
Bromoform	25	25.5	102%	80%-120%
Bromomethane	25	23.5	94%	80%-120%
Carbon tetrachloride	25	22.0	88%	80%-120%
Chlorobenzene	25	21.2	85%	80%-120%
Chloroethane	25	21.3	85%	80%-120%
Chloroform	25	21.5	86%	80%-120%
Chloromethane	25	20.3	81%	80%-120%
Dibromochloromethane	25	25.0	100%	80%-120%
1,2-Dichlorobenzene	25	22.9	92%	80%-120%
1,3-Dichlorobenzene	25	22.7	91%	80%-120%
1,4-Dichlorobenzene	25	21.0	84%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	22.0	88%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	21.6	86%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	23.3	93%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	21.7	87%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	20.0	80%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	20.4	81%	80%-120%
1,2-Dichloropropane	25	21.8	87%	80%-120%
cis-1,3-Dichloropropene	25	22.9	92%	80%-120%
trans-1,3-Dichloropropene	25	23.6	94%	80%-120%
Ethyl benzene	25	20.9	84%	80%-120%
Methylene chloride (Dichloromethane)	25	20.1	80%	80%-120%
1,1,1,2-Tetrachloroethane	25	23.6	95%	80%-120%
1,1,2,2-Tetrachloroethane	25	27.2	109%	80%-120%
Tetrachloroethene (PCE)	25	20.8	83%	80%-120%
Toluene	25	20.3	81%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	20.4	82%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	23.4	94%	80%-120%
Trichloroethene (TCE)	25	20.8	83%	80%-120%
Trichlorofluoromethane (Freon 11)	25	20.2	81%	80%-120%
m,p-Xylenes	50	41.8	84%	80%-120%
o-Xylene	25	21.2	85%	80%-120%
Vinyl chloride (VC)	25	22.3	89%	80%-120%
SURROGATE	SPK conc	%RC		
Dibromofluoromethane	50	103%		
Toluene-d8	50	90%		
4-Bromofluorobenzene	50	94%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gerald Vogt
Laboratory Director

FEB 5 - 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

1D001MS4-QCV_1 Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/3/97
BATCH #: 4-0103-1V

		DATE ANALYZED	1/3/97	1/3/97	
		LAB SAMPLE ID	1D001-07	1D001-13	RPD
		CLIENT SAMPLE ID	GSV-50-10	GSV-50-10D	%
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	0.72	0.22	27%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	86%	82%	
Toluene-d8	50	80%-115%	92%	91%	
4-Bromofluorobenzene	50	75%-125%	92%	91%	

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gareth Vogt FEB 5 - 1997
Laboratory Director

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ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 1/3/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/10/96

LAB LCS ID: LCS01 1/3 MS4

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	28.6	115%	80%-120%
Bromodichloromethane	25	28.1	113%	80%-120%
Bromoform	25	28.5	114%	80%-120%
Bromomethane	25	24.3	97%	80%-120%
Carbon tetrachloride	25	27.6	110%	80%-120%
Chlorobenzene	25	29.3	117%	80%-120%
Chloroethane	25	27.1	108%	80%-120%
Chloroform	25	27.0	108%	80%-120%
Chloromethane	25	23.6	94%	80%-120%
Dibromochloromethane	25	26.5	106%	80%-120%
1,2-Dichlorobenzene	25	28.5	114%	80%-120%
1,3-Dichlorobenzene	25	31.5	126%	80%-120%
1,4-Dichlorobenzene	25	26.7	107%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	23.0	92%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	25.9	104%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	27.9	112%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	25.7	103%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	27.3	109%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	27.5	110%	80%-120%
1,2-Dichloropropane	25	28.3	113%	80%-120%
cis-1,3-Dichloropropene	25	29.2	117%	80%-120%
trans-1,3-Dichloropropene	25	29.0	116%	80%-120%
Ethyl benzene	25	29.0	116%	80%-120%
Methylene chloride (Dichloromethane)	25	25.8	103%	80%-120%
1,1,1,2-Tetrachloroethane	25	29.6	118%	80%-120%
1,1,2,2-Tetrachloroethane	25	27.6	110%	80%-120%
Tetrachloroethene (PCE)	25	29.8	119%	80%-120%
Toluene	25	29.2	117%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	27.8	111%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	28.1	112%	80%-120%
Trichloroethene (TCE)	25	29.1	116%	80%-120%
Trichlorofluoromethane (Freon 11)	25	27.3	109%	80%-120%
m,p-Xylenes	50	60.2	120%	80%-120%
o-Xylene	25	30.4	122%	80%-120%
Vinyl chloride (VC)	25	25.5	102%	80%-120%

SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		86%		
Toluene-d8	50		93%		
4-Bromofluorobenzene	50		95%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gerald Voigt
Laboratory Director

FEB 5 - 1997
Date

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ONSITE ENVIRONMENTAL LABORATORIES, INC.

1D001MS3-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

DATE PERFORMED: 01/03/97
BATCH #: 3-0103-1V

		DATE ANALYZED	1/3/97	1/3/97	
		LAB SAMPLE ID	1D001-26	1D001-27	RPD
		CLIENT SAMPLE ID	GSV-21-20	GSV-21-20DUP	%
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	0.58	0.63	2%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	98%	92%	
Toluene-d8	50	80%-115%	88%	92%	
4-Bromofluorobenzene	50	75%-125%	89%	93%	

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Sarah Vogt FEB 5 - 1997
Laboratory Director

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SDG 1D010 BURBANK AIRPORT

DATA PACKAGE - 8260 Analysis-Soil Vapor

Prepared By:

ONSITE ENVIRONMENTAL LABORATORIES

Submitted To:

FUGRO WEST

35/43

February 1997

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Date: February 6, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D010 (01 through 26)

Samples were received by ONSITE Mobile Laboratory # 1 on January 20, 1997 1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D010-01	EQUIPBLK-Dave	January 20, 1997	February 6, 1997	
1D010-02	EQUIPBLK-Frank	January 20, 1997	February 6, 1997	
1D010-03	EQUIPBLK-Jeff	January 20, 1997	February 6, 1997	
1D010-04	GSV-2-10	January 20, 1997	February 6, 1997	4a
1D010-05	GSV-1-10	January 20, 1997	February 6, 1997	
1D010-06	GSV-9-10	January 20, 1997	February 6, 1997	
1D010-07	GSV-2-20	January 20, 1997	February 6, 1997	4a
1D010-08	GSV-9-20	January 20, 1997	February 6, 1997	
1D010-09	GSV-1-20	January 20, 1997	February 6, 1997	
1D010-10	GSV-10-10	January 20, 1997	February 6, 1997	
1D010-11	GSV-11-10	January 20, 1997	February 6, 1997	4a
1D010-12	GSV-3-10	January 20, 1997	February 6, 1997	4a
1D010-13	GSV-3-20	January 20, 1997	February 6, 1997	
1D010-14	GSV-11-20	January 20, 1997	February 6, 1997	
1D010-15	GSV-10-20	January 20, 1997	February 6, 1997	4a
1D010-16	GSV-4-10	January 20, 1997	February 6, 1997	
1D010-17	GSV-13-10	January 20, 1997	February 6, 1997	4a
1D010-18	GSV-12-10	January 20, 1997	February 6, 1997	
1D010-19	GSV-4-20	January 20, 1997	February 6, 1997	
1D010-20	GSV-4-20D	January 20, 1997	February 6, 1997	8
1D010-21	GSV-12-20	January 20, 1997	February 6, 1997	4a
1D010-22	GSV-12-20D	January 20, 1997	February 6, 1997	4a,8
1D010-23	GSV-13-20	January 20, 1997	February 6, 1997	
1D010-24	GSV-13-20D	January 20, 1997	February 6, 1997	8
1D010-25	Travel Blank	January 20, 1997	February 6, 1997	4a
1D010-26	TripBlk-LCW	January 20, 1997	February 6, 1997	4a

1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.

4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.

5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates: All surrogate recoveries were within acceptable parameters.

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6a. Surrogates:Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates:Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Not enough sample was received to perform requested analysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Onsite Environmental Laboratories, Inc.

Address: 5500 Boscell Common
Fremont, CA 94538

Telephone/FAX: (510) 490-8571 / (510) 490-8572

ELAP Certification No. 1774 Expiration Date: 7/31/98

Authorized Signature
Name, Title (print) Garth Voigt, Laboratory Director

Signature, Date Garth Voigt 2/5/97

Client Name: Fugro West, Inc.

Project No.: 9636-0541

Date(s) Sampled: 1/20/97 To Same

Date(s) received: 1/20/97 To Same

Date(s) reported: 1/21/97

Chain of custody received: Yes ___ No ___

Comments: ___

(RWQCB LabForm;Ver12/94)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses	# of Samples	# of Samples Subcontracted

26 air & soil vapor samples for 8260

Sample Condition: Acceptable

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample condition:

(RWQCB LabForm;Ver12/94)

ANALYTICAL RESULTS SUMMARY

ONSITE
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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97
		LAB SAMPLE ID	1D010-01	1D010-02	1D010-03	1D010-04	1D010-05	1D010-06	1D010-07
		CLIENT SAMPLE ID	Eq.Blk-Dave	Eq.Blk-Frank	Eq.Blk-Jeff	GSV-2-10	GSV-1-10	GSV-9-10	GSV-2-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL	MB	MB	MB				
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	107%	94%	108%	91%	108%	108%	94%
Toluene-d8	50	80%-115%	89%	92%	112%	96%	112%	91%	92%
4-Bromofluorobenzene	50	75%-125%	92%	94%	112%	95%	112%	90%	93%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97
		LAB SAMPLE ID	1D010-08	1D010-09	1D010-10	1D010-11	1D010-12	1D010-13	1D010-14
		CLIENT SAMPLE ID	GSV-9-20	GSV-1-20	GSV-10-10	GSV-11-10	GSV-3-10	GSV-3-20	GSV-11-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	104%	106%	110%	94%	96%	107%	108%
Toluene-d8	50	80%-115%	110%	89%	90%	95%	93%	90%	111%
4-Bromofluorobenzene	50	75%-125%	112%	89%	91%	94%	93%	91%	112%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gordon Vorgt
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97
		LAB SAMPLE ID	1D010-15	1D010-16	1D010-17	1D010-18	1D010-19	1D010-20	1D010-21
		CLIENT SAMPLE ID	GSV-10-20	GSV-4-10	GSV-13-10	GSV-12-10	GSV-4-20	GSV-4-20D	GSV-12-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	94%	107%	94%	98%	109%	105%	91%
Toluene-d8	50	80%-115%	93%	110%	92%	89%	111%	111%	96%
4-Bromofluorobenzene	50	75%-125%	94%	111%	94%	85%	114%	111%	96%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gerald Vogt
Laboratory Director

FEB 11 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

[redacted]

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/20/97	1/20/97	1/20/97	1/20/97	1/20/97
		LAB SAMPLE ID	1D010-22	1D010-23	1D010-24	1D010-25	1D010-26
		CLIENT SAMPLE ID	GSV-12-20D	GSV-13-20	GSV-13-20D	Travel Blk	TripBlk-LCW
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL					
Benzene		1	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	89%	109%	110%	95%	95%
Toluene-d8	50	80%-115%	96%	91%	90%	93%	93%
4-Bromofluorobenzene	50	75%-125%	91%	92%	90%	94%	94%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gerald Vogt
Laboratory Director

FEB 11 1997
Date

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QA/QC RESULTS SUMMARY

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 1/20/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

LAB LCS ID: LCS 1/20 MS2

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	23.9	96%	80%-120%
Bromodichloromethane	25	23.0	92%	80%-120%
Bromoform	25	23.0	92%	80%-120%
Bromomethane	25	24.8	99%	80%-120%
Carbon tetrachloride	25	23.6	94%	80%-120%
Chlorobenzene	25	22.9	92%	80%-120%
Chloroethane	25	27.0	108%	80%-120%
Chloroform	25	25.0	100%	80%-120%
Chloromethane	25	27.5	110%	80%-120%
Dibromochloromethane	25	24.8	99%	80%-120%
1,2-Dichlorobenzene	25	24.4	98%	80%-120%
1,3-Dichlorobenzene	25	24.4	98%	80%-120%
1,4-Dichlorobenzene	25	23.2	93%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	24.3	97%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	26.4	106%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	25.4	102%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	23.6	94%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	23.2	93%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	23.6	94%	80%-120%
1,2-Dichloropropane	25	25.1	100%	80%-120%
cis-1,3-Dichloropropene	25	25.1	101%	80%-120%
trans-1,3-Dichloropropene	25	25.5	102%	80%-120%
Ethyl benzene	25	21.6	87%	80%-120%
Methylene chloride (Dichloromethane)	25	23.5	94%	80%-120%
1,1,1,2-Tetrachloroethane	25	24.4	98%	80%-120%
1,1,2,2-Tetrachloroethane	25	28.5	114%	80%-120%
Tetrachloroethene (PCE)	25	21.0	84%	80%-120%
Toluene	25	21.0	84%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	23.2	93%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	24.7	99%	80%-120%
Trichloroethene (TCE)	25	21.7	87%	80%-120%
Trichlorofluoromethane (Freon 11)	25	21.9	88%	80%-120%
m,p-Xylenes	50	44.7	89%	80%-120%
o-Xylene	25	22.3	89%	80%-120%
Vinyl chloride (VC)	25	29.6	119%	80%-120%
SURROGATE	SPK conc	%RC		
Dibromofluoromethane	50	111%		
Toluene-d8	50	91%		
4-Bromofluorobenzene	50	92%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gerald Vogt
Laboratory Director

FEB 11 1997
Date

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LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/20/97
BATCH #: 2-0120-1V

	DATE ANALYZED	1/20/97	1/20/97	RPD %
	LAB SAMPLE ID	1D010-23	1D010-24	
	CLIENT SAMPLE ID	ESV-74-10	ESV-74-10DUP	
	DILUTION FACTOR	0.1	0.1	
COMPOUND	CRDL			
Benzene	1	ND	ND	0%
Bromodichloromethane	1	ND	ND	0%
Bromoform	1	ND	ND	0%
Bromomethane	1	ND	ND	0%
Carbon tetrachloride	1	ND	ND	0%
Chlorobenzene	1	ND	ND	0%
Chloroethane	1	ND	ND	0%
Chloroform	1	ND	ND	0%
Chloromethane	1	ND	ND	0%
Dibromochloromethane	1	ND	ND	0%
1,2-Dichlorobenzene	1	ND	ND	0%
1,3-Dichlorobenzene	1	ND	ND	0%
1,4-Dichlorobenzene	1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)	1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)	1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)	1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)	1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)	1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)	1	ND	ND	0%
1,2-Dichloropropane	1	ND	ND	0%
cis-1,3-Dichloropropene	1	ND	ND	0%
trans-1,3-Dichloropropene	1	ND	ND	0%
Ethyl benzene	1	ND	ND	0%
Methylene chloride (Dichloromethane)	1	ND	ND	0%
1,1,1,2-Tetrachloroethane	1	ND	ND	0%
1,1,2,2-Tetrachloroethane	1	ND	ND	0%
Tetrachloroethene (PCE)	1	ND	ND	0%
Toluene	1	0.43	0.33	26%
1,1,1-Trichloroethane (1,1,1-TCA)	1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)	1	ND	ND	0%
Trichloroethene (TCE)	1	ND	ND	0%
Trichlorofluoromethane (Freon 11)	1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)	1	ND	ND	0%
m,p-Xylenes	1	ND	ND	0%
o-Xylene	1	ND	ND	0%
Vinyl chloride (VC)	1	ND	ND	0%

SURROGATE	SPK conc	ACP %	%RC	%RC
Dibromofluoromethane	50	75%-110%	109%	110%
Toluene-d8	50	80%-115%	91%	90%
4-Bromofluorobenzene	50	75%-125%	92%	90%

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gareth Vogt
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 1/20/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

LAB LCS ID: LCS 1/20 MS3

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	24.5	98%	80%-120%
Bromodichloromethane	25	23.4	94%	80%-120%
Bromoform	25	17.1	68%	80%-120%
Bromomethane	25	26.2	105%	80%-120%
Carbon tetrachloride	25	23.0	92%	80%-120%
Chlorobenzene	25	25.5	102%	80%-120%
Chloroethane	25	27.4	110%	80%-120%
Chloroform	25	24.9	100%	80%-120%
Chloromethane	25	28.8	115%	80%-120%
Dibromochloromethane	25	20.6	83%	80%-120%
1,2-Dichlorobenzene	25	23.7	95%	80%-120%
1,3-Dichlorobenzene	25	25.1	100%	80%-120%
1,4-Dichlorobenzene	25	24.5	98%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	26.8	107%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	24.4	98%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	21.8	87%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	24.2	97%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	25.1	100%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	25.1	100%	80%-120%
1,2-Dichloropropane	25	24.4	98%	80%-120%
cis-1,3-Dichloropropene	25	23.2	93%	80%-120%
trans-1,3-Dichloropropene	25	21.0	84%	80%-120%
Ethyl benzene	25	25.4	102%	80%-120%
Methylene chloride (Dichloromethane)	25	23.7	95%	80%-120%
1,1,1,2-Tetrachloroethane	25	24.1	96%	80%-120%
1,1,2,2-Tetrachloroethane	25	16.8	67%	80%-120%
Tetrachloroethene (PCE)	25	24.0	96%	80%-120%
Toluene	25	23.8	95%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	24.4	98%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	20.4	82%	80%-120%
Trichloroethene (TCE)	25	24.1	96%	80%-120%
Trichlorofluoromethane (Freon 11)	25	27.2	109%	80%-120%
m,p-Xylenes	50	52.5	105%	80%-120%
o-Xylene	25	25.1	100%	80%-120%
Vinyl chloride (VC)	25	29.6	118%	80%-120%
SURROGATE	SPK conc	%RC		
Dibromofluoromethane	50	92%		
Toluene-d8	50	93%		
4-Bromofluorobenzene	50	92%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Laboratory Director

FEB 11 1997
Date

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LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/20/97
BATCH #: 4-0120-1V

		DATE ANALYZED	1/20/97	1/20/97	RPD %
		LAB SAMPLE ID	1D010-21	1D010-22	
		CLIENT SAMPLE ID	GSV-12-20	GSV-12-20D	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	91%	89%	
Toluene-d8	50	80%-115%	96%	96%	
4-Bromofluorobenzene	50	75%-125%	96%	91%	

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gerald Voigt
Laboratory Director

FEB 11 1997
Date

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LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L

DATE PERFORMED: 1/20/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

LAB LCS ID: LCS 1/20 MS4

ANALYTE	M.Blank 1/20	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	ND	25	21.2	85%	80%-120%
Bromodichloromethane	ND	25	21.0	84%	80%-120%
Bromoform	ND	25	20.2	81%	80%-120%
Bromomethane	ND	25	21.7	87%	80%-120%
Carbon tetrachloride	ND	25	21.0	84%	80%-120%
Chlorobenzene	ND	25	21.8	87%	80%-120%
Chloroethane	ND	25	23.4	94%	80%-120%
Chloroform	ND	25	21.7	87%	80%-120%
Chloromethane	ND	25	25.6	103%	80%-120%
Dibromochloromethane	ND	25	19.3	77%	80%-120%
1,2-Dichlorobenzene	ND	25	22.3	89%	80%-120%
1,3-Dichlorobenzene	ND	25	21.9	88%	80%-120%
1,4-Dichlorobenzene	ND	25	22.4	90%	80%-120%
Dichlorodifluoromethane (Freon 12)	ND	25	29.7	119%	80%-120%
1,1-Dichloroethane (1,1-DCA)	ND	25	20.9	84%	80%-120%
1,2-Dichloroethane (1,2-DCA)	ND	25	21.5	86%	80%-120%
1,1-Dichloroethene (1,1-DCE)	ND	25	21.3	85%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	ND	25	22.9	92%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	ND	25	20.5	82%	80%-120%
1,2-Dichloropropane	ND	25	21.5	86%	80%-120%
cis-1,3-Dichloropropene	ND	25	23.8	95%	80%-120%
trans-1,3-Dichloropropene	ND	25	19.5	80%	80%-120%
Ethyl benzene	ND	25	22.4	90%	80%-120%
Methylene chloride (Dichloromethane)	ND	25	20.5	82%	80%-120%
1,1,1,2-Tetrachloroethane	ND	25	21.4	86%	80%-120%
1,1,2,2-Tetrachloroethane	ND	25	18.9	76%	80%-120%
Tetrachloroethene (PCE)	ND	25	22.7	91%	80%-120%
Toluene	ND	25	21.1	84%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	ND	25	22.3	89%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	ND	25	20.9	84%	80%-120%
Trichloroethene (TCE)	ND	25	22.0	88%	80%-120%
Trichlorofluoromethane (Freon 11)	ND	25	24.0	96%	80%-120%
m,p-Xylenes	ND	50	45.2	90%	80%-120%
o-Xylene	ND	25	22.1	88%	80%-120%
Vinyl chloride (VC)	ND	25	25.3	101%	80%-120%

SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	93%		94%		
Toluene-d8	50	95%		97%		
4-Bromofluorobenzene	50	93%		100%		

Notes : ND - Analytes not detected at, or the stated detection limit (1ug/L air)

Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 1/20/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/10/96

LAB LCS ID: LCS 1/20 MS5

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	23.3	93%	80%-120%
Bromodichloromethane	25	24.2	97%	80%-120%
Bromoform	25	22.9	91%	80%-120%
Bromomethane	25	24.6	98%	80%-120%
Carbon tetrachloride	25	24.6	98%	80%-120%
Chlorobenzene	25	23.3	93%	80%-120%
Chloroethane	25	24.2	97%	80%-120%
Chloroform	25	24.7	99%	80%-120%
Chloromethane	25	25.6	102%	80%-120%
Dibromochloromethane	25	22.9	92%	80%-120%
1,2-Dichlorobenzene	25	23.6	94%	80%-120%
1,3-Dichlorobenzene	25	23.9	95%	80%-120%
1,4-Dichlorobenzene	25	24.0	96%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	30.3	121%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	23.1	92%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	24.9	100%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	22.3	89%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	24.5	98%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	21.9	88%	80%-120%
1,2-Dichloropropane	25	23.8	95%	80%-120%
cis-1,3-Dichloropropene	25	25.9	104%	80%-120%
trans-1,3-Dichloropropene	25	21.0	84%	80%-120%
Ethyl benzene	25	23.1	92%	80%-120%
Methylene chloride (Dichloromethane)	25	24.4	97%	80%-120%
1,1,1,2-Tetrachloroethane	25	23.9	96%	80%-120%
1,1,2,2-Tetrachloroethane	25	22.1	89%	80%-120%
Tetrachloroethene (PCE)	25	24.4	98%	80%-120%
Toluene	25	22.6	90%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	25.0	100%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	23.3	93%	80%-120%
Trichloroethene (TCE)	25	23.4	93%	80%-120%
Trichlorofluoromethane (Freon 11)	25	21.7	87%	80%-120%
m,p-Xylenes	50	46.2	92%	80%-120%
o-Xylene	25	22.8	91%	80%-120%
Vinyl chloride (VC)	25	25.6	102%	80%-120%
SURROGATE	SPK conc	%RC		
Dibromofluoromethane	50	114%		
Toluene-d8	50	112%		
4-Bromofluorobenzene	50	111%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gerald Vogt
Laboratory Director

FEB 11 1997
Date

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1D010MS5-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/20/97
BATCH #: 5-0120-1V

		DATE ANALYZED	1/20/97	1/20/97	RPD %
		LAB SAMPLE ID	1D010-19	1D010-20	
		CLIENT SAMPLE ID	GSV-4-20	GSV-4-20D	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	109%	105%	
Toluene-d8	50	80%-115%	111%	111%	
4-Bromofluorobenzene	50	75%-125%	114%	111%	

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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SDG 1D011 BURBANK AIRPORT

DATA PACKAGE - 8260 Analysis-Soil Vapor

Prepared By:

ONSITE ENVIRONMENTAL LABORATORIES

Submitted To:

FUGRO WEST

36/44

February 1997

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Date: February 6, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D011 (01 through 35)

Samples were received by ONSITE Mobile Laboratory # 1 on January 21, 1997
1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D011-01	EQUIPBLK-Jeff	January 21, 1997	February 6, 1997	4a
1D011-02	EQUIPBLK-Frank	January 21, 1997	February 6, 1997	4a
1D011-03	EQUIPBLK-Dave	January 21, 1997	February 6, 1997	
1D011-04	FSV-10-10	January 21, 1997	February 6, 1997	4a
1D011-05	FSV-11-10	January 21, 1997	February 6, 1997	4a
1D011-06	FSV-09-10	January 21, 1997	February 6, 1997	
1D011-07	FSV-10-20	January 21, 1997	February 6, 1997	4a
1D011-08	FSV-09-20	January 21, 1997	February 6, 1997	4a
1D011-09	FSV-11-20	January 21, 1997	February 6, 1997	4a
1D011-10	GSV-52-10	January 21, 1997	February 6, 1997	
1D011-11	FSV-12-10	January 21, 1997	February 6, 1997	4a
1D011-12	GSV-52-20	January 21, 1997	February 6, 1997	4a
1D011-13	FSV-12-20	January 21, 1997	February 6, 1997	4a
1D011-14	GSV-60-10	January 21, 1997	February 6, 1997	
1D011-15	GSV-53-10	January 21, 1997	February 6, 1997	4a
1D011-16	GSV-60-20	January 21, 1997	February 6, 1997	4a
1D011-17	GSV-61-10	January 21, 1997	February 6, 1997	4a
1D011-18	GSV-53-20	January 21, 1997	February 6, 1997	
1D011-19	GSV-61-20	January 21, 1997	February 6, 1997	4a
1D011-20	GSV-62-10	January 21, 1997	February 6, 1997	4a
1D011-21	GSV-54-10	January 21, 1997	February 6, 1997	4a
1D011-22	GSV-63-10	January 21, 1997	February 6, 1997	
1D011-23	GSV-54-20	January 21, 1997	February 6, 1997	4a
1D011-24	GSV-63-20	January 21, 1997	February 6, 1997	4a
1D011-25	GSV-62-20	January 21, 1997	February 6, 1997	
1D011-26	GSV-55-10	January 21, 1997	February 6, 1997	4a
1D011-27	GSV-64-10	January 21, 1997	February 6, 1997	4a
1D011-28	GSV-65-10	January 21, 1997	February 6, 1997	
1D011-29	GSV-55-20	January 21, 1997	February 6, 1997	4a
1D011-30	GSV-65-20	January 21, 1997	February 6, 1997	4a
1D011-31	GSV-64-20	January 21, 1997	February 6, 1997	4a
1D011-32	GSV-66-10	January 21, 1997	February 6, 1997	4a
1D011-33	GSV-47-10	January 21, 1997	February 6, 1997	4a
1D011-34	GSV-56-10	January 21, 1997	February 6, 1997	
1D011-35	GSV-56-20	January 21, 1997	February 6, 1997	4a

Sample receipt: All Chain of custody and cooler receipt procedures were observed.

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2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates: All surrogate recoveries were within acceptable parameters.
6a. Surrogates: Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates: Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Not enough sample was received to perform requested analysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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LABORATORIES, INC.

Date: February 6, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D011 (36 through 56)

Samples were received by ONSITE Mobile Laboratory # 1 on January 21, 1997
1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D011-36	GSV-56-20D	January 21, 1997	February 6, 1997	4a,8
1D011-37	GSV-66-20	January 21, 1997	February 6, 1997	4a
1D011-38	GSV-66-20D	January 21, 1997	February 6, 1997	4a,8
1D011-39	GSV-47-20	January 21, 1997	February 6, 1997	4a
1D011-40	GSV-47-20D	January 21, 1997	February 6, 1997	4a,8
1D011-41	GSV-45-10	January 21, 1997	February 6, 1997	4a
1D011-42	GSV-48-10	January 21, 1997	February 6, 1997	4a
1D011-43	GSV-46-10	January 21, 1997	February 6, 1997	4a
1D011-44	GSV-48-20	January 21, 1997	February 6, 1997	
1D011-45	GSV-46-20	January 21, 1997	February 6, 1997	4a
1D011-46	GSV-45-20	January 21, 1997	February 6, 1997	4a
1D011-47	GSV-72-10	January 21, 1997	February 6, 1997	4a
1D011-48	GSV-27-10	January 21, 1997	February 6, 1997	
1D011-49	GSV-72-20	January 21, 1997	February 6, 1997	
1D011-50	GSV-72-20D	January 21, 1997	February 6, 1997	8
1D011-51	Travel Blank	January 21, 1997	February 6, 1997	4a
1D011-52	GSV-27-20	January 21, 1997	February 6, 1997	4a
1D011-53	GSV-38-10	January 21, 1997	February 6, 1997	4a
1D011-54	GSV-38-20	January 21, 1997	February 6, 1997	4a
1D011-55	GSV-38-20D	January 21, 1997	February 6, 1997	4a,8
1D011-56	TripBlk-LCW	January 21, 1997	February 6, 1997	4a

1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates:All surrogate recoveries were within acceptable parameters.
6a. Surrogates:Surrogate recoveries were outside of QC limits due to matrix effects.
b. Surrogates:Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

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7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Sample leaked before analysis. Not enough sample to perform requested analysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Onsite Environmental Laboratories, Inc.

Address: 5500 Boscell Common
Fremont, CA 94538

Telephone/FAX: (510) 490-8571 / (510) 490-8572

ELAP Certification No. 1774 Expiration Date: 7/31/98

Authorized Signature
Name, Title (print) Garth Voigt, Laboratory Director

Signature, Date Garth Voigt, 2/10/97

Client Name: Fugro West, Inc.

Project No.: 9636-0541

Date(s) Sampled: 1/21/97 To Same

Date(s) received: 1/21/97 To Same

Date(s) reported: 1/22/97

Chain of custody received: Yes ___ No ___

Comments:

(RWQCB LabForm;Ver12/94)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses	# of Samples	# of Samples Subcontracted
56 soil vapor & air samples for 8260		

Sample Condition: Acceptable

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample condition:

(RWQCB LabForm;Ver12/94)

ANALYTICAL RESULTS SUMMARY

ONSITE
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LABORATORIES, INC.

[redacted]

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-01	1D011-02	1D011-03	1D011-04	1D011-05	1D011-06	1D011-07
		CLIENT SAMPLE ID	EquipBlk-Je	EquipBlk-F	EquipBlk-D	FSV-10-10	FSV-11-10	FSV-09-10	FSV-10-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL	MB	MB	MB				
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND.	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	110%	93%	108%	106%	94%	106%	88%
Toluene-d8	50	80%-115%	92%	93%	112%	91%	92%	112%	96%
4-Bromofluorobenzene	50	75%-125%	93%	94%	112%	91%	94%	112%	89%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Vargt
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-08	1D011-09	1D011-10	1D011-11	1D011-12	1D011-13	1D011-14
		CLIENT SAMPLE ID	FSV-09-20	FSV-11-20	GSV-52-10	FSV-12-10	GSV-52-20	FSV-12-20	GSV-60-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	3.0	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	115%	94%	107%	111%	92%	93%	106%
Toluene-dB	50	80%-115%	90%	92%	112%	90%	97%	93%	110%
4-Bromofluorobenzene	50	75%-125%	90%	95%	111%	90%	93%	94%	109%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Voigt
Laboratory Director

FEB 11 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-15*	1D011-16	1D011-17	1D011-18*	1D011-19	1D011-20	1D011-21
		CLIENT SAMPLE ID	GSV-53-10	GSV-60-20	GSV-61-10	GSV-53-20	GSV-61-20	GSV-62-10	GSV-54-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	1.4	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	2.8	ND	ND	1.2
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	1.9 J	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	1.5	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	108%	92%	96%	106%	100%	93%	94%
Toluene-d8	50	80%-115%	91%	96%	93%	111%	89%	92%	96%
4-Bromofluorobenzene	50	75%-125%	90%	92%	94%	111%	85%	92%	91%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
* - Hydrocarbons Within Gasoline Range Detected in Sample
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-22	1D011-23	1D011-24	1D011-25	1D011-26	1D011-27	1D011-28
		CLIENT SAMPLE ID	GSV-63-10	GSV-54-20	GSV-63-20	GSV-62-20	GSV-55-10	GSV-64-10	GSV-65-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	2.2	ND	ND	2.2	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	1.1	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	109%	103%	94%	106%	93%	109%	106%
Toluene-d8	50	80%-115%	112%	90%	93%	112%	97%	90%	112%
4-Bromofluorobenzene	50	75%-125%	111%	91%	94%	112%	96%	92%	111%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Vargt

Laboratory Director

FEB 11 1997

Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-29*	1D011-30	1D011-31	1D011-32	1D011-33	1D011-34	1D011-35
		CLIENT SAMPLE ID	GSV-55-20	GSV-65-20	GSV-64-20	GSV-66-10	GSV-47-10	GSV-56-10	GSV-56-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	1.2	1.4	2.3	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	1.5	2.5
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	5.9 J	1.1 J	9.2 J	3.2 J	ND	2.9 J
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	1.3
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	95%	110%	92%	110%	95%	109%	102%
Toluene-d8	50	80%-115%	92%	90%	98%	90%	93%	112%	90%
4-Bromofluorobenzene	50	75%-125%	94%	91%	94%	93%	95%	111%	88%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
* - Hydrocarbons Within Gasoline Range Detected in Sample
Dilution Factor equal 1 for 5.0cc injection

Gareth Vargt
Laboratory Director

FEB 11 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-36	1D011-37	1D011-38	1D011-39	1D011-40	1D011-41	1D011-42
		CLIENT SAMPLE ID	GSV-56-20D	GSV-66-20	GSV-66-20D	GSV-47-20	GSV-47-20D	GSV-45-10	GSV-48-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	1.3	1.2	ND	1.5
Toluene		1	2.1	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	1.5 J	9.1 J	13 J	2.9 J	2.6 J	ND	1.9 J
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	1.2
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	104%	93%	94%	91%	91%	92%	108%
Toluene-d8	50	80%-115%	89%	93%	93%	98%	97%	98%	90%
4-Bromofluorobenzene	50	75%-125%	90%	94%	95%	98%	94%	98%	92%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Voigt
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-43	1D011-44	1D011-45	1D011-46	1D011-47*	1D011-48	1D011-49
		CLIENT SAMPLE ID	GSV-46-10	GSV-48-20	GSV-46-20	GSV-45-20	GSV-72-10	GSV-27-10	GSV-72-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	1.2	ND	ND	ND	ND
Toluene		1	ND	2.6	ND	ND	1.7	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	2.5 J	1.2 J	ND	ND	ND	ND
m,p-Xylenes		1	ND	1.3	ND	ND	1.2	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	95%	110%	108%	92%	93%	108%	110%
Toluene-d8	50	80%-115%	93%	112%	90%	98%	93%	112%	111%
4-Bromofluorobenzene	50	75%-125%	94%	109%	90%	95%	94%	109%	110%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
* - Hydrocarbons Within Gasoline Range Detected in Sample
Dilution Factor equal 1 for 5.0cc injection

Gerald Vogt
Laboratory Director

FEB 11 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97	1/21/97
		LAB SAMPLE ID	1D011-50	1D011-51	1D011-52	1D011-53	1D011-54	1D011-55	1D011-56
		CLIENT SAMPLE ID	GSV-72-20D	Travel Blk	GSV-27-20	GSV-38-10	GSV-38-20	GSV-38-20D	TripBlk-LCW
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	1.3 J	1.7 J	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	109%	96%	92%	106%	94%	95%	109%
Toluene-d8	50	80%-115%	111%	96%	98%	90%	92%	93%	90%
4-Bromofluorobenzene	50	75%-125%	110%	92%	95%	90%	94%	94%	91%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Vogt
Laboratory Director

FEB 11 1997
Date

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QA/QC RESULTS SUMMARY

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 **Project No: 9636-0541** **REPORTING UNITS : µg/L**

DATE PERFORMED: 1/21/97 **LAB LCS ID:** LCS 1/21 MS2
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

ANALYTE		SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		25	25.5	102%	80%-120%
Bromodichloromethane		25	22.7	91%	80%-120%
Bromoform		25	18.0	72%	80%-120%
Bromomethane		25	28.4	114%	80%-120%
Carbon tetrachloride		25	25.9	104%	80%-120%
Chlorobenzene		25	24.7	99%	80%-120%
Chloroethane		25	30.3	121%	80%-120%
Chloroform		25	26.0	104%	80%-120%
Chloromethane		25	29.5	118%	80%-120%
Dibromochloromethane		25	22.8	91%	80%-120%
1,2-Dichlorobenzene		25	25.6	102%	80%-120%
1,3-Dichlorobenzene		25	27.1	108%	80%-120%
1,4-Dichlorobenzene		25	25.0	100%	80%-120%
Dichlorodifluoromethane (Freon 12)		25	24.6	98%	80%-120%
1,1-Dichloroethane (1,1-DCA)		25	27.5	110%	80%-120%
1,2-Dichloroethane (1,2-DCA)		25	21.7	87%	80%-120%
1,1-Dichloroethene (1,1-DCE)		25	24.7	99%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		25	24.3	97%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		25	25.6	102%	80%-120%
1,2-Dichloropropane		25	25.1	101%	80%-120%
cis-1,3-Dichloropropene		25	24.0	96%	80%-120%
trans-1,3-Dichloropropene		25	21.7	87%	80%-120%
Ethyl benzene		25	24.1	96%	80%-120%
Methylene chloride (Dichloromethane)		25	24.5	98%	80%-120%
1,1,1,2-Tetrachloroethane		25	26.3	105%	80%-120%
1,1,2,2-Tetrachloroethane		25	21.5	86%	80%-120%
Tetrachloroethene (PCE)		25	24.1	96%	80%-120%
Toluene		25	22.5	90%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		25	25.6	102%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		25	20.1	80%	80%-120%
Trichloroethene (TCE)		25	23.0	92%	80%-120%
Trichlorofluoromethane (Freon 11)		25	24.8	99%	80%-120%
m,p-Xylenes		50	50.3	101%	80%-120%
o-Xylene		25	25.1	100%	80%-120%
Vinyl chloride (VC)		25	33.4	133%	80%-120%
SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		105%		
Toluene-d8	50		90%		
4-Bromofluorobenzene	50		90%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Laboratory Director

FEB 11 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/21/97
BATCH #: 2-0121-1V

		DATE ANALYZED	1/21/97	1/21/97	RPD %
		LAB SAMPLE ID	1D011-35	1D011-36	
		CLIENT SAMPLE ID	GSV-56-20	GSV-56-20D	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	0.41	0.31	27%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	2.5	2.1	20%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	1.3	1.0	32%
m,p-Xylenes		1	1.3	1.0	32%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	102%	104%	
Toluene-d8	50	80%-115%	90%	89%	
4-Bromofluorobenzene	50	75%-125%	88%	90%	

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gareth Voigt
Laboratory Director

FEB 11 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-22	1D013-23	1D013-24	1D013-25	1D013-26	1D013-27	1D013-28
		CLIENT SAMPLE ID	GSV-69-10	FSV-03-10	FSV-04-10	GSV-69-20	FSV-03-20	FSV-04-20	FSV-02-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	110%	113%	92%	100%	99%	111%	93%
Toluene-d8	50	80%-115%	112%	91%	97%	102%	101%	111%	96%
4-Bromofluorobenzene	50	75%-125%	111%	92%	93%	104%	105%	113%	89%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 10 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-29	1D013-30	1D013-31	1D013-32	1D013-33	1D013-34	1D013-35
		CLIENT SAMPLE ID	FSV-01-10	GSV-68-10	FSV-02-20	FSV-02-20D	FSV-01-20	FSV-01-20D	GSV-68-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	109%	109%	95%	96%	106%	108%	114%
Toluene-d8	50	80%-115%	112%	91%	96%	96%	111%	111%	91%
4-Bromofluorobenzene	50	75%-125%	111%	88%	92%	93%	112%	112%	91%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Vargt
Laboratory Director

FEB 10 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-36	1D013-37	1D013-38	1D013-39	1D013-40	1D013-41	1D013-42
		CLIENT SAMPLE ID	GSV-68-20D	GSV-18-10	GSV-19-10	FSV-14-10	GSV-18-20	GSV-19-20	FSV-14-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	5.6 J	ND	ND	5.9 J
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%		98%	103%	103%	108%	92%	100%
Toluene-d8	50	80%-115%		97%	110%	101%	111%	95%	102%
4-Bromofluorobenzene	50	75%-125%		94%	111%	104%	112%	90%	105%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
[ ] Sample Lost due to power failure.
Dilution Factor equal 1 for 5.0cc injection

Gordy Voigt
Laboratory Director

FEB 10 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-43	1D013-44	1D013-45	1D013-46	1D013-47	1D013-48	1D013-49
		CLIENT SAMPLE ID	GSV-28-10	GSV-05-10	FSV-13-10	GSV-28-20	GSV-05-20	FSV-13-20	ASV-27-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	1.1
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	2.3
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	100%	111%	110%	101%	96%	110%	102%
Toluene-d8	50	80%-115%	102%	112%	111%	101%	96%	110%	102%
4-Bromofluorobenzene	50	75%-125%	104%	111%	113%	105%	95%	112%	104%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gary Vogt
Laboratory Director

FEB 1 0 1997
Date

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ONSITE
ENVIRONMENTAL LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-50	1D013-51	1D013-52	1D013-53	1D013-54	1D013-55	1D013-56
		CLIENT SAMPLE ID	ASV-28-10	ASV-27-20	ASV-28-20	Trip Blank	ASV-17-10	ASV-16-10	ASV-17-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	3.1	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	3.3	1.7	ND	ND	1.5	1.7
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	1.9	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	94%	109%	98%	100%	109%	99%	94%
Toluene-d8	50	80%-115%	97%	111%	96%	102%	110%	102%	95%
4-Bromofluorobenzene	50	75%-125%	96%	113%	93%	105%	111%	105%	95%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gerald Voigt
Laboratory Director

FEB 10 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-57	1D013-58	1D013-59	1D013-60	1D013-61	1D013-62	1D013-63
		CLIENT SAMPLE ID	ASV-16-20	ASV-09-10	ASV-08-10	ASV-09-20	ASV-08-20	BSV-64-10	BSV-65-10
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	2.8	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	1.2	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	98%	108%	100%	97%	110%	101%	109%
Toluene-d8	50	80%-115%	96%	110%	101%	96%	110%	101%	111%
4-Bromofluorobenzene	50	75%-125%	93%	113%	104%	94%	112%	105%	111%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 1 0 1997
Date

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LABORATORIES, INC.

1D011MS3-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/21/97
BATCH #: 3-0121-1V

		DATE ANALYZED	1/21/97	1/21/97	RPD %	1/21/97	1/21/97	RPD %	RPD LIMIT
		LAB SAMPLE ID	1D011-37	1D011-38		1D011-54	1D011-55		
		CLIENT SAMPLE ID	GSV-66-20	GSV-66-20D		GSV-38-20	GSV-38-20D		
		DILUTION FACTOR	0.1	0.1		0.1	0.1		
COMPOUND		CRDL							
Benzene		1	ND	ND	0%	ND	ND	0%	50%
Bromodichloromethane		1	ND	ND	0%	ND	ND	0%	50%
Bromoform		1	ND	ND	0%	ND	ND	0%	50%
Bromomethane		1	ND	ND	0%	ND	ND	0%	50%
Carbon tetrachloride		1	ND	ND	0%	ND	ND	0%	50%
Chlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
Chloroethane		1	ND	ND	0%	ND	ND	0%	50%
Chloroform		1	ND	ND	0%	ND	ND	0%	50%
Chloromethane		1	ND	ND	0%	ND	ND	0%	50%
Dibromochloromethane		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,3-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,4-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%	ND	ND	0%	50%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%	ND	ND	0%	50%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloropropane		1	ND	ND	0%	ND	ND	0%	50%
cis-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
trans-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
Ethyl benzene		1	ND	ND	0%	ND	ND	0%	50%
Methylene chloride (Dichloromethane)		1	ND	ND	0%	ND	ND	0%	50%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
Tetrachloroethene (PCE)		1	ND	ND	0%	ND	ND	0%	50%
Toluene		1	ND	ND	0%	0.48	0.68	34	50%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%	ND	ND	0%	50%
Trichloroethene (TCE)		1	ND	ND	0%	ND	ND	0%	50%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%	ND	ND	0%	50%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%	ND	ND	0%	50%
m,p-Xylenes		1	9.1	13.1	36%	1.3	1.7	27	50%
o-Xylene		1	ND	ND	0%	ND	ND	0%	50%
Vinyl chloride (VC)		1	ND	ND	0%	ND	ND	0%	50%
SURROGATE	SPK conc	ACP %	%RC	%RC		%RC	%RC		
Dibromofluoromethane	50	75%-110%	93%	94%		94%	95%		
Toluene-d8	50	80%-115%	93%	93%		92%	93%		
4-Bromofluorobenzene	50	75%-125%	95%	95%		94%	94%		

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gordy Vargt
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 1/21/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

LAB LCS ID: LCS 1/21 MS3

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	23.3	93%	80%-120%
Bromodichloromethane	25	22.1	89%	80%-120%
Bromoform	25	16.6	66%	80%-120%
Bromomethane	25	24.3	97%	80%-120%
Carbon tetrachloride	25	21.8	87%	80%-120%
Chlorobenzene	25	24.0	96%	80%-120%
Chloroethane	25	25.7	103%	80%-120%
Chloroform	25	23.6	94%	80%-120%
Chloromethane	25	26.8	107%	80%-120%
Dibromochloromethane	25	19.7	79%	80%-120%
1,2-Dichlorobenzene	25	22.0	88%	80%-120%
1,3-Dichlorobenzene	25	23.5	94%	80%-120%
1,4-Dichlorobenzene	25	23.1	92%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	22.1	88%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	23.2	93%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	21.0	84%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	22.7	91%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	23.8	95%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	23.5	94%	80%-120%
1,2-Dichloropropane	25	23.3	93%	80%-120%
cis-1,3-Dichloropropene	25	22.1	88%	80%-120%
trans-1,3-Dichloropropene	25	20.4	82%	80%-120%
Ethyl benzene	25	24.3	97%	80%-120%
Methylene chloride (Dichloromethane)	25	22.9	92%	80%-120%
1,1,1,2-Tetrachloroethane	25	22.9	91%	80%-120%
1,1,2,2-Tetrachloroethane	25	16.8	67%	80%-120%
Tetrachloroethene (PCE)	25	22.6	90%	80%-120%
Toluene	25	23.0	92%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	23.0	92%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	19.9	80%	80%-120%
Trichloroethene (TCE)	25	22.7	91%	80%-120%
Trichlorofluoromethane (Freon 11)	25	24.5	98%	80%-120%
m,p-Xylenes	50	49.3	99%	80%-120%
o-Xylene	25	23.5	94%	80%-120%
Vinyl chloride (VC)	25	26.3	105%	80%-120%

SURROGATE	SPK conc	%RC
Dibromofluoromethane	50	93%
Toluene-d8	50	93%
4-Bromofluorobenzene	50	91%

Notes : ND - Analytes not detected at, or the stated detection limit (1ug/L air)

Gareth Vogt
Laboratory Director

FEB 11 1997
Date

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ENVIRONMENTAL
LABORATORIES, INC.

1D011MS4-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/21/97
BATCH #: 4-0121-1V

	DATE ANALYZED	1/21/97	1/21/97	RPD %
	LAB SAMPLE ID	1D011-39	1D011-40	
	CLIENT SAMPLE ID	GSV-47-20	GSV-47-20D	
	DILUTION FACTOR	0.1	0.1	
COMPOUND	CRDL			
Benzene	1	ND	ND	0%
Bromodichloromethane	1	ND	ND	0%
Bromoform	1	ND	ND	0%
Bromomethane	1	ND	ND	0%
Carbon tetrachloride	1	ND	ND	0%
Chlorobenzene	1	ND	ND	0%
Chloroethane	1	ND	ND	0%
Chloroform	1	ND	ND	0%
Chloromethane	1	ND	ND	0%
Dibromochloromethane	1	ND	ND	0%
1,2-Dichlorobenzene	1	ND	ND	0%
1,3-Dichlorobenzene	1	ND	ND	0%
1,4-Dichlorobenzene	1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)	1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)	1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)	1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)	1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)	1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)	1	ND	ND	0%
1,2-Dichloropropane	1	ND	ND	0%
cis-1,3-Dichloropropene	1	ND	ND	0%
trans-1,3-Dichloropropene	1	ND	ND	0%
Ethyl benzene	1	ND	ND	0%
Methylene chloride (Dichloromethane)	1	ND	ND	0%
1,1,1,2-Tetrachloroethane	1	ND	ND	0%
1,1,2,2-Tetrachloroethane	1	ND	ND	0%
Tetrachloroethene (PCE)	1	1.3	1.2	8%
Toluene	1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)	1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)	1	ND	ND	0%
Trichloroethene (TCE)	1	ND	ND	0%
Trichlorofluoromethane (Freon 11)	1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)	1	2.9	2.6	11%
m,p-Xylenes	1	ND	ND	0%
o-Xylene	1	ND	ND	0%
Vinyl chloride (VC)	1	ND	ND	0%

SURROGATE	SPK conc	ACP %	%RC	%RC
Dibromofluoromethane	50	75%-110%	91%	91%
Toluene-d8	50	80%-115%	98%	97%
4-Bromofluorobenzene	50	75%-125%	98%	94%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 1/21/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/10/96

LAB LCS ID: LCS01 1/21 MS4

ANALYTE		MB 1/21	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		ND	25	20.3	81%	80%-120%
Bromodichloromethane		ND	25	19.4	78%	80%-120%
Bromoform		ND	25	16.2	65%	80%-120%
Bromomethane		ND	25	19.9	80%	80%-120%
Carbon tetrachloride		ND	25	19.9	80%	80%-120%
Chlorobenzene		ND	25	20.5	82%	80%-120%
Chloroethane		ND	25	21.2	85%	80%-120%
Chloroform		ND	25	20.6	83%	80%-120%
Chloromethane		ND	25	23.8	95%	80%-120%
Dibromochloromethane		ND	25	17.7	71%	80%-120%
1,2-Dichlorobenzene		ND	25	20.9	84%	80%-120%
1,3-Dichlorobenzene		ND	25	20.9	84%	80%-120%
1,4-Dichlorobenzene		ND	25	21.0	84%	80%-120%
Dichlorodifluoromethane (Freon 12)		ND	25	25.2	101%	80%-120%
1,1-Dichloroethane (1,1-DCA)		ND	25	20.3	81%	80%-120%
1,2-Dichloroethane (1,2-DCA)		ND	25	20.7	83%	80%-120%
1,1-Dichloroethene (1,1-DCE)		ND	25	20.0	80%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		ND	25	21.3	85%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		ND	25	19.8	79%	80%-120%
1,2-Dichloropropane		ND	25	20.5	82%	80%-120%
cis-1,3-Dichloropropene		ND	25	21.5	86%	80%-120%
trans-1,3-Dichloropropene		ND	25	17.0	68%	80%-120%
Ethyl benzene		ND	25	21.0	84%	80%-120%
Methylene chloride (Dichloromethane)		ND	25	19.3	77%	80%-120%
1,1,1,2-Tetrachloroethane		ND	25	19.9	80%	80%-120%
1,1,2,2-Tetrachloroethane		ND	25	16.8	67%	80%-120%
Tetrachloroethene (PCE)		ND	25	21.0	84%	80%-120%
Toluene		ND	25	20.6	82%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		ND	25	21.2	85%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		ND	25	19.3	77%	80%-120%
Trichloroethene (TCE)		ND	25	20.4	82%	80%-120%
Trichlorofluoromethane (Freon 11)		ND	25	22.6	91%	80%-120%
m,p-Xylenes		ND	50	41.9	84%	80%-120%
o-Xylene		ND	25	20.1	80%	80%-120%
Vinyl chloride (VC)		ND	25	22.3	89%	80%-120%
SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	93%		95%		
Toluene-d8	50	98%		98%		
4-Bromofluorobenzene	50	96%		96%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gordon Vogt
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

1D011MS5-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/21/97
BATCH #: 5-0121-1V

		DATE ANALYZED	1/21/97	1/21/97	RPD %
		LAB SAMPLE ID	1D011-49	1D011-50	
		CLIENT SAMPLE ID	GSV-70-20	GSV-70-20D	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	0.35	0.35	0%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	110%	109%	
Toluene-d8	50	80%-115%	111%	111%	
4-Bromofluorobenzene	50	75%-125%	110%	110%	

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gerald Vogt
Laboratory Director

FEB 11 1997
Date

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BGPAA

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LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 1/21/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 080395(gases), 082694(liq.)
DATE OF SOURCE: 12/3/96

LAB LCS ID: LCS 1/21 MS5

ANALYTE		SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		25	22.8	91%	80%-120%
Bromodichloromethane		25	23.4	94%	80%-120%
Bromoform		25	21.8	87%	80%-120%
Bromomethane		25	24.0	96%	80%-120%
Carbon tetrachloride		25	24.4	98%	80%-120%
Chlorobenzene		25	23.2	93%	80%-120%
Chloroethane		25	23.6	94%	80%-120%
Chloroform		25	22.8	91%	80%-120%
Chloromethane		25	24.8	99%	80%-120%
Dibromochloromethane		25	22.4	90%	80%-120%
1,2-Dichlorobenzene		25	23.8	95%	80%-120%
1,3-Dichlorobenzene		25	24.2	97%	80%-120%
1,4-Dichlorobenzene		25	24.1	97%	80%-120%
Dichlorodifluoromethane (Freon 12)		25	29.2	117%	80%-120%
1,1-Dichloroethane (1,1-DCA)		25	21.9	88%	80%-120%
1,2-Dichloroethane (1,2-DCA)		25	23.6	94%	80%-120%
1,1-Dichloroethene (1,1-DCE)		25	21.4	85%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		25	23.0	92%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		25	20.9	83%	80%-120%
1,2-Dichloropropane		25	23.2	93%	80%-120%
cis-1,3-Dichloropropene		25	24.9	99%	80%-120%
trans-1,3-Dichloropropene		25	20.3	81%	80%-120%
Ethyl benzene		25	23.4	94%	80%-120%
Methylene chloride (Dichloromethane)		25	23.0	92%	80%-120%
1,1,1,2-Tetrachloroethane		25	23.6	94%	80%-120%
1,1,2,2-Tetrachloroethane		25	21.7	87%	80%-120%
Tetrachloroethene (PCE)		25	24.7	99%	80%-120%
Toluene		25	22.4	90%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		25	23.8	95%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		25	22.2	89%	80%-120%
Trichloroethene (TCE)		25	23.2	93%	80%-120%
Trichlorofluoromethane (Freon 11)		25	21.5	86%	80%-120%
m,p-Xylenes		50	46.9	94%	80%-120%
o-Xylene		25	23.1	93%	80%-120%
Vinyl chloride (VC)		25	24.9	100%	80%-120%
SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		107%		
Toluene-d8	50		112%		
4-Bromofluorobenzene	50		109%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gordy Voigt
Laboratory Director

FEB 11 1997
Date

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SDG 1D013 BURBANK AIRPORT

DATA PACKAGE - 8260 Analysis-Soil Vapor

Prepared By:

ONSITE ENVIRONMENTAL LABORATORIES

Submitted To:

FUGRO WEST

37 /45

February 1997

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Date: February 7, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D013 (01 through 35)

Samples were received by ONSITE Mobile Laboratory # 1 on January 27, 1997 1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D013-01	EQUIPBLK-Dave	January 27, 1997	February 7, 1997	
1D013-02	EQUIPBLK-Frank	January 27, 1997	February 7, 1997	4a
1D013-03	EQUIPBLK-Todd	January 27, 1997	February 7, 1997	4a
1D013-04	GSV-29-10	January 27, 1997	February 7, 1997	4a
1D013-05	GSV-37-10	January 27, 1997	February 7, 1997	4a
1D013-06	GSV-39-10	January 27, 1997	February 7, 1997	
1D013-07	GSV-29-20	January 27, 1997	February 7, 1997	4a
1D013-08	GSV-39-20	January 27, 1997	February 7, 1997	4a
1D013-09	GSV-37-20	January 27, 1997	February 7, 1997	4a
1D013-10	GSV-71-10	January 27, 1997	February 7, 1997	4a
1D013-11	FSV-08-10	January 27, 1997	February 7, 1997	4a
1D013-12	FSV-07-10	January 27, 1997	February 7, 1997	
1D013-13	GSV-71-20	January 27, 1997	February 7, 1997	4a
1D013-14	FSV-08-20	January 27, 1997	February 7, 1997	4a
1D013-15	FSV-07-20	January 27, 1997	February 7, 1997	4a
1D013-16	GSV-70-10	January 27, 1997	February 7, 1997	4a
1D013-17	FSV-06-10	January 27, 1997	February 7, 1997	
1D013-18	FSV-05-10	January 27, 1997	February 7, 1997	4a
1D013-19	GSV-70-20	January 27, 1997	February 7, 1997	
1D013-20	FSV-06-20	January 27, 1997	February 7, 1997	4a
1D013-21	FSV-05-20	January 27, 1997	February 7, 1997	4a
1D013-22	GSV-69-10	January 27, 1997	February 7, 1997	4a
1D013-23	FSV-03-10	January 27, 1997	February 7, 1997	4a
1D013-24	FSV-04-10	January 27, 1997	February 7, 1997	
1D013-25	GSV-69-20	January 27, 1997	February 7, 1997	4a
1D013-26	FSV-03-20	January 27, 1997	February 7, 1997	4a
1D013-27	FSV-04-20	January 27, 1997	February 7, 1997	4a
1D013-28	FSV-02-10	January 27, 1997	February 7, 1997	
1D013-29	FSV-01-10	January 27, 1997	February 7, 1997	4a
1D013-30	GSV-68-10	January 27, 1997	February 7, 1997	4a
1D013-31	FSV-02-20	January 27, 1997	February 7, 1997	
1D013-32	FSV-02-20D	January 27, 1997	February 7, 1997	8
1D013-33	FSV-01-20	January 27, 1997	February 7, 1997	4a
1D013-34	FSV-01-20D	January 27, 1997	February 7, 1997	4a,8
1D013-35	GSV-68-20	January 27, 1997	February 7, 1997	4a

Sample receipt: All Chain of custody and cooler receipt procedures were observed.

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2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates:All surrogate recoveries were within acceptable parameters.
6a. Surrogates:Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates:Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Sample lost due to system error. Not enough sample to perform reanalysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Date: February 7, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D013 (36 through 68)

Samples were received by ONSITE Mobile Laboratory # 1 on January 27, 1997 1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D013-36	GSV-68-20D	January 27, 1997	February 7, 1997	7c
1D013-37	GSV-18-10	January 27, 1997	February 7, 1997	
1D013-38	GSV-19-10	January 27, 1997	February 7, 1997	4a
1D013-39	FSV-14-10	January 27, 1997	February 7, 1997	4a
1D013-40	GSV-18-10	January 27, 1997	February 7, 1997	4a
1D013-41	GSV-19-20	January 27, 1997	February 7, 1997	
1D013-42	FSV-14-20	January 27, 1997	February 7, 1997	4a
1D013-43	GSV-28-10	January 27, 1997	February 7, 1997	4a
1D013-44	GSV-05-10	January 27, 1997	February 7, 1997	4a
1D013-45	FSV-13-10	January 27, 1997	February 7, 1997	4a
1D013-46	GSV-28-20	January 27, 1997	February 7, 1997	4a
1D013-47	GSV-05-20	January 27, 1997	February 7, 1997	
1D013-48	FSV-13-20	January 27, 1997	February 7, 1997	4a
1D013-49	ASV-27-10	January 27, 1997	February 7, 1997	4a
1D013-50	ASV-28-10	January 27, 1997	February 7, 1997	
1D013-51	ASV-27-20	January 27, 1997	February 7, 1997	4a
1D013-52	ASV-28-20	January 27, 1997	February 7, 1997	
1D013-53	Travel Blank	January 27, 1997	February 7, 1997	4a
1D013-54	ASV-17-10	January 27, 1997	February 7, 1997	4a
1D013-55	ASV-16-10	January 27, 1997	February 7, 1997	4a
1D013-56	ASV-17-20	January 27, 1997	February 7, 1997	
1D013-57	ASV-16-20	January 27, 1997	February 7, 1997	
1D013-58	ASV-09-10	January 27, 1997	February 7, 1997	4a
1D013-59	ASV-08-10	January 27, 1997	February 7, 1997	4a
1D013-60	ASV-09-20	January 27, 1997	February 7, 1997	
1D013-61	ASV-08-20	January 27, 1997	February 7, 1997	4a
1D013-62	BSV-64-10	January 27, 1997	February 7, 1997	4a
1D013-63	BSV-65-10	January 27, 1997	February 7, 1997	4a
1D013-64	BSV-65-20	January 27, 1997	February 7, 1997	4a
1D013-65	BSV-65-20D	January 27, 1997	February 7, 1997	4a
1D013-66	BSV-64-20	January 27, 1997	February 7, 1997	4a
1D013-67	BSV-64-20D	January 27, 1997	February 7, 1997	4a
1D013-68	TripBlk-LCW	January 27, 1997	February 7, 1997	

1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

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LABORATORIES, INC.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates:All surrogate recoveries were within acceptable parameters.
6a. Surrogates:Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates:Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Sample lost due to system error. Not enough sample to perform reanalysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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Appendix V

CORRECTIVE ACTION REPORT

MOBILE LABORATORY #: 1

DATE: 1/27/97

INITIATOR: N. Weicker

SYMPTOMS/PROBLEMS:

LCS Failed on Inst #2 GCMS on 1/27/97

PROJECT/SAMPLES AFFECTED: samples run on ~~the~~ Inst #2 1/27/97

SUGGESTED CORRECTIVE ACTION:

it crashed at ~ 1300 due possibly to power fluctuations. LCS failure is due to a problem w/ Inst #2 - Bobby Arcilla had to vent the flight tube & change the filaments to get it running again - ~~by the~~ once running, the calibration was out, samples were run before the machine crashed, and had good surrogate recoveries and the initial standard was right on. So will just write a CA report

CORRECTIVE ACTION TAKEN ON N. Weicker **Date** **BY** 1/27/97 **Name**

DESCRIPTION OF CORRECTIVE ACTION:

wrote a corrective action report

APPROVED BY: [signature] **Laboratory Director**

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Onsite Environmental Laboratories, Inc.

Address: 5500 Boscell Common
Fremont, CA 94538

Telephone/FAX: (510) 490-8571 / (510) 490-8572

ELAP Certification No. 1774 Expiration Date: 7/31/98

Authorized Signature Name, Title (print) David Voigt, Laboratory Director

Signature, Date David Voigt, 2/10/97

Client Name: Fugro West, Inc.

Project No.: 9636-0541

Date(s) Sampled: 1/27/97 To same

Date(s) received: 1/27/97 To same

Date(s) reported: 1/28/97

Chain of custody received: Yes ___ No ___

Comments:

(RWQCB LabForm;Ver12/94)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses	# of Samples	# of Samples Subcontracted
~~68~~ 67 soil vapor & air samples for 8260 (1 sample was lost due to power failure)		

Sample Condition: Acceptable

Inorganic Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Microbiological Analyses	# of Samples	# of Samples Subcontracted

Sample Condition:

Other Types of Analyses	# of Samples	# of Samples Subcontracted

Sample condition:

(RWQCB LabForm;Ver12/94)

ANALYTICAL RESULTS SUMMARY

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-01	1D013-02	1D013-03	1D013-04	1D013-05	1D013-06	1D013-07
		CLIENT SAMPLE ID	EquipBlk-D	EquipBlk-F	EquipBlk-T	GSV-29-10	GSV-37-10	GSV-39-10	GSV-29-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL	MB	MB	MB				
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	96%	108%	100%	108%	100%	96%	110%
Toluene-d8	50	80%-115%	97%	109%	101%	91%	101%	96%	111%
4-Bromofluorobenzene	50	75%-125%	98%	111%	105%	90%	104%	96%	114%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gordy Vogt
Laboratory Director

FEB 1 0 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-08	1D013-09	1D013-10	1D013-11	1D013-12	1D013-13	1D013-14
		CLIENT SAMPLE ID	GSV-39-20	GSV-37-20	GSV-71-10	FSV-08-10	FSV-07-10	GSV-71-20	FSV-08-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	2.0 J	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	99%	114%	111%	110%	97%	115%	109%
Toluene-d8	50	80%-115%	101%	91%	91%	111%	98%	91%	90%
4-Bromofluorobenzene	50	75%-125%	104%	91%	90%	113%	98%	93%	87%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 500cc injection

Laboratory Director

FEB 1 0 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 **REPORTING UNITS : µg/L-air**

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97
		LAB SAMPLE ID	1D013-15	1D013-16	1D013-17	1D013-18	1D013-19	1D013-20	1D013-21
		CLIENT SAMPLE ID	FSV-07-20	GSV-70-10	FSV-06-10	FSV-05-10	GSV-70-20	FSV-06-20	FSV-05-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	110%	113%	96%	111%	96%	100%	115%
Toluene-d8	50	80%-115%	112%	91%	97%	111%	95%	100%	91%
4-Bromofluorobenzene	50	75%-125%	112%	92%	96%	113%	93%	106%	92%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gerald Voigt
Laboratory Director

FEB 10 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	1/27/97	1/27/97	1/27/97	1/27/97	1/27/97		
		LAB SAMPLE ID	1D013-64	1D013-65	1D013-66	1D013-67	1D013-68		
		CLIENT SAMPLE ID	BSV-65-20	BSV-65-20D	BSV-64-20	BSV-64-20D	TripBlk-LCW		
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1		
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND		
Bromodichloromethane		1	ND	ND	ND	ND	ND		
Bromoform		1	ND	ND	ND	ND	ND		
Bromomethane		1	ND	ND	ND	ND	ND		
Carbon tetrachloride		1	ND	ND	ND	ND	ND		
Chlorobenzene		1	ND	ND	ND	ND	ND		
Chloroethane		1	ND	ND	ND	ND	ND		
Chloroform		1	ND	ND	ND	ND	ND		
Chloromethane		1	ND	ND	ND	ND	ND		
Dibromochloromethane		1	ND	ND	ND	ND	ND		
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND		
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND		
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND		
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND		
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND		
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND		
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND		
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND		
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND		
1,2-Dichloropropane		1	ND	ND	ND	ND	ND		
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND		
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND		
Ethyl benzene		1	ND	ND	ND	ND	ND		
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND		
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND		
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND		
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND		
Toluene		1	ND	ND	ND	ND	ND		
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND		
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND		
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND		
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND		
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND		
m,p-Xylenes		1	ND	ND	ND	ND	ND		
o-Xylene		1	ND	ND	ND	ND	ND		
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND		
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC		
Dibromofluoromethane	50	75%-110%	100%	101%	107%	109%	98%		
Toluene-d8	50	80%-115%	101%	101%	111%	112%	96%		
4-Bromofluorobenzene	50	75%-125%	104%	104%	110%	113%	94%		

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gordy Voigt
Laboratory Director

FEB 10 1997
Date

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QA/QC RESULTS SUMMARY

1D013MS2-QCV LCS

ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

REPORTING UNITS : µg/L

DATE PERFORMED: 1/27/97
SUPPLY SOURCE: Absolut Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 1/27 MS2
Project No: 9636-0541

ANALYTE	M.BLANK 1/27	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	ND	25	27.6	110%	80%-120%
Bromodichloromethane	ND	25	30.9	124%	80%-120%
Bromoform	ND	25	18.7	75%	80%-120%
Bromomethane	ND	25	42.6	171%	80%-120%
Carbon tetrachloride	ND	25	34.5	138%	80%-120%
Chlorobenzene	ND	25	26.0	104%	80%-120%
Chloroethane	ND	25	40.2	161%	80%-120%
Chloroform	ND	25	34.6	138%	80%-120%
Chloromethane	ND	25	43.4	174%	80%-120%
Dibromochloromethane	ND	25	23.7	95%	80%-120%
1,2-Dichlorobenzene	ND	25	26.3	105%	80%-120%
1,3-Dichlorobenzene	ND	25	27.5	110%	80%-120%
1,4-Dichlorobenzene	ND	25	26.0	104%	80%-120%
Dichlorodifluoromethane (Freon 12)	ND	25	36.0	144%	80%-120%
1,1-Dichloroethane (1,1-DCA)	ND	25	41.7	167%	80%-120%
1,2-Dichloroethane (1,2-DCA)	ND	25	43.4	174%	80%-120%
1,1-Dichloroethene (1,1-DCE)	ND	25	29.9	120%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	ND	25	28.4	114%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	ND	25	29.2	117%	80%-120%
1,2-Dichloropropane	ND	25	32.9	132%	80%-120%
cis-1,3-Dichloropropene	ND	25	29.9	120%	80%-120%
trans-1,3-Dichloropropene	ND	25	30.0	120%	80%-120%
Ethyl benzene	ND	25	25.9	104%	80%-120%
Methylene chloride (Dichloromethane)	ND	25	27.7	111%	80%-120%
1,1,1,2-Tetrachloroethane	ND	25	25.7	103%	80%-120%
1,1,2,2-Tetrachloroethane	ND	25	29.5	118%	80%-120%
Tetrachloroethene (PCE)	ND	25	20.6	82%	80%-120%
Toluene	ND	25	25.1	100%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	ND	25	35.6	143%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	ND	25	24.0	96%	80%-120%
Trichloroethene (TCE)	ND	25	26.9	108%	80%-120%
Trichlorofluoromethane (Freon 11)	ND	25	38.4	154%	80%-120%
m,p-Xylenes	ND	50	54.4	109%	80%-120%
o-Xylene	ND	25	26.4	106%	80%-120%
Vinyl chloride (VC)	ND	25	47.1	189%	80%-120%

SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	110%		121%		
Toluene-d8	50	90%		95%		
4-Bromofluorobenzene	50	91%		92%		

Notes :

ND - Analytes not detected at, or above the stated detection limit

Gerald Voigt
Laboratory Director

FEB 10 1997
Date

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BGPAA

ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

REPORTING UNITS : µg/L

DATE PERFORMED: 1/27/97
SUPPLY SOURCE: Absolut Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 1/27 MS3
Project No: 9636-0541

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	21.7	87%	80%-120%
Bromodichloromethane	25	21.8	87%	80%-120%
Bromoform	25	21.4	85%	80%-120%
Bromomethane	25	27.1	109%	80%-120%
Carbon tetrachloride	25	21.8	87%	80%-120%
Chlorobenzene	25	21.9	88%	80%-120%
Chloroethane	25	25.7	103%	80%-120%
Chloroform	25	22.1	88%	80%-120%
Chloromethane	25	35.1	141%	80%-120%
Dibromochloromethane	25	21.9	88%	80%-120%
1,2-Dichlorobenzene	25	20.1	80%	80%-120%
1,3-Dichlorobenzene	25	19.9	80%	80%-120%
1,4-Dichlorobenzene	25	20.1	80%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	36.7	147%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	22.8	91%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	21.4	86%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	24.1	96%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	23.4	94%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	21.7	87%	80%-120%
1,2-Dichloropropane	25	21.8	87%	80%-120%
cis-1,3-Dichloropropene	25	23.8	95%	80%-120%
trans-1,3-Dichloropropene	25	19.3	77%	80%-120%
Ethyl benzene	25	20.6	83%	80%-120%
Methylene chloride (Dichloromethane)	25	22.7	91%	80%-120%
1,1,1,2-Tetrachloroethane	25	22.0	88%	80%-120%
1,1,2,2-Tetrachloroethane	25	20.3	81%	80%-120%
Tetrachloroethene (PCE)	25	21.4	85%	80%-120%
Toluene	25	20.9	84%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	21.6	86%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	20.6	82%	80%-120%
Trichloroethene (TCE)	25	21.6	86%	80%-120%
Trichlorofluoromethane (Freon 11)	25	22.9	92%	80%-120%
m,p-Xylenes	50	43.0	86%	80%-120%
o-Xylene	25	20.9	84%	80%-120%
Vinyl chloride (VC)	25	18.9	76%	80%-120%

SURROGATE	SPK conc	%RC
Dibromofluoromethane	50	101%
Toluene-d8	50	101%
4-Bromofluorobenzene	50	103%

Notes :

ND - Analytes not detected at, or the stated detection limit (1ug/L air)

Gerald Vogt
Laboratory Director

FEB 1 0 1997
Date

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ONSITE
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LABORATORIES, INC.

1D013MS3-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/27/97
BATCH #: 3-0127-1V

Project No: 9636-0541

	DATE ANALYZED	1/27/97	1/27/97	RPD %				RPD LIMIT
	LAB SAMPLE ID	1D013-64	1D013-65					
	CLIENT SAMPLE ID	BSV-65-20	BSV-65-20D					
	DILUTION FACTOR	0.1	0.1					
COMPOUND	CRDL							
Benzene	1	ND	ND	0%				50%
Bromodichloromethane	1	ND	ND	0%				50%
Bromoform	1	ND	ND	0%				50%
Bromomethane	1	ND	ND	0%				50%
Carbon tetrachloride	1	ND	ND	0%				50%
Chlorobenzene	1	ND	ND	0%				50%
Chloroethane	1	ND	ND	0%				50%
Chloroform	1	ND	ND	0%				50%
Chloromethane	1	ND	ND	0%				50%
Dibromochloromethane	1	ND	ND	0%				50%
1,2-Dichlorobenzene	1	ND	ND	0%				50%
1,3-Dichlorobenzene	1	ND	ND	0%				50%
1,4-Dichlorobenzene	1	ND	ND	0%				50%
Dichlorodifluoromethane (Freon 12)	1	ND	ND	0%				50%
1,1-Dichloroethane (1,1-DCA)	1	ND	ND	0%				50%
1,2-Dichloroethane (1,2-DCA)	1	ND	ND	0%				50%
1,1-Dichloroethene (1,1-DCE)	1	ND	ND	0%				50%
cis-1,2-Dichloroethene (c-1,2-DCE)	1	ND	ND	0%				50%
trans-1,2-Dichloroethene (t-1,2-DCE)	1	ND	ND	0%				50%
1,2-Dichloropropane	1	ND	ND	0%				50%
cis-1,3-Dichloropropene	1	ND	ND	0%				50%
trans-1,3-Dichloropropene	1	ND	ND	0%				50%
Ethyl benzene	1	ND	ND	0%				50%
Methylene chloride (Dichloromethane)	1	ND	ND	0%				50%
1,1,1,2-Tetrachloroethane	1	ND	ND	0%				50%
1,1,2,2-Tetrachloroethane	1	ND	ND	0%				50%
Tetrachloroethene (PCE)	1	ND	ND	0%				50%
Toluene	1	ND	ND	0%				50%
1,1,1-Trichloroethane (1,1,1-TCA)	1	ND	ND	0%				50%
1,1,2-Trichloroethane (1,1,2-TCA)	1	ND	ND	0%				50%
Trichloroethene (TCE)	1	ND	ND	0%				50%
Trichlorofluoromethane (Freon 11)	1	ND	ND	0%				50%
Trichlorotrifluoroethane (Freon 113)	1	ND	ND	0%				50%
m,p-Xylenes	1	ND	ND	0%				50%
o-Xylene	1	ND	ND	0%				50%
Vinyl chloride (VC)	1	ND	ND	0%				50%
SURROGATE	SPK conc	ACP %	%RC	%RC		%RC	%RC	
Dibromofluoromethane	50	75%-110%	100%	101%				
Toluene-d8	50	80%-115%	101%	101%				
4-Bromofluorobenzene	50	75%-125%	104%	104%				

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 10 1997
Date

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ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

REPORTING UNITS : µg/L

DATE PERFORMED: 1/27/97
SUPPLY SOURCE: Absolut Standards, INC.
LOT NUMBER: 071096(gases),050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS01 1/27 MS4
Project No: 9636-0541

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	24.3	97%	80%-120%
Bromodichloromethane	25	24.0	96%	80%-120%
Bromoform	25	21.6	86%	80%-120%
Bromomethane	25	28.2	113%	80%-120%
Carbon tetrachloride	25	23.7	95%	80%-120%
Chlorobenzene	25	23.9	96%	80%-120%
Chloroethane	25	28.3	113%	80%-120%
Chloroform	25	26.4	106%	80%-120%
Chloromethane	25	29.4	118%	80%-120%
Dibromochloromethane	25	22.7	91%	80%-120%
1,2-Dichlorobenzene	25	24.6	98%	80%-120%
1,3-Dichlorobenzene	25	23.6	94%	80%-120%
1,4-Dichlorobenzene	25	23.3	93%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	28.4	113%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	27.6	110%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	26.0	104%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	27.2	109%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	27.7	111%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	25.1	100%	80%-120%
1,2-Dichloropropane	25	25.2	101%	80%-120%
cis-1,3-Dichloropropene	25	27.4	110%	80%-120%
trans-1,3-Dichloropropene	25	22.7	91%	80%-120%
Ethyl benzene	25	24.7	99%	80%-120%
Methylene chloride (Dichloromethane)	25	25.7	103%	80%-120%
1,1,1,2-Tetrachloroethane	25	22.8	91%	80%-120%
1,1,2,2-Tetrachloroethane	25	24.3	97%	80%-120%
Tetrachloroethene (PCE)	25	23.6	95%	80%-120%
Toluene	25	24.3	97%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	27.3	109%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	24.4	97%	80%-120%
Trichloroethene (TCE)	25	24.0	96%	80%-120%
Trichlorofluoromethane (Freon 11)	25	29.2	117%	80%-120%
m,p-Xylenes	50	47.7	95%	80%-120%
o-Xylene	25	23.0	92%	80%-120%
Vinyl chloride (VC)	25	28.2	113%	80%-120%

SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		98%		
Toluene-d8	50		97%		
4-Bromofluorobenzene	50		98%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gordy Vogt
Laboratory Director

FEB 10 1997
Date

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ONSITE ENVIRONMENTAL LABORATORIES, INC.

1D013MS4-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/27/97

BATCH #: 4-0127-1V

Project No: 9636-0541

		DATE ANALYZED	1/27/97	1/27/97	RPD %					RPD LIMIT
		LAB SAMPLE ID	1D013-31	1D013-32						
		CLIENT SAMPLE ID	FSV-02-20	FSV-02-20D						
		DILUTION FACTOR	0.1	0.1						
COMPOUND		CRDL								
Benzene		1	ND	ND	0%					50%
Bromodichloromethane		1	ND	ND	0%					50%
Bromoform		1	ND	ND	0%					50%
Bromomethane		1	ND	ND	0%					50%
Carbon tetrachloride		1	ND	ND	0%					50%
Chlorobenzene		1	ND	ND	0%					50%
Chloroethane		1	ND	ND	0%					50%
Chloroform		1	ND	ND	0%					50%
Chloromethane		1	ND	ND	0%					50%
Dibromochloromethane		1	ND	ND	0%					50%
1,2-Dichlorobenzene		1	ND	ND	0%					50%
1,3-Dichlorobenzene		1	ND	ND	0%					50%
1,4-Dichlorobenzene		1	ND	ND	0%					50%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%					50%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%					50%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%					50%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%					50%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%					50%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%					50%
1,2-Dichloropropane		1	ND	ND	0%					50%
cis-1,3-Dichloropropene		1	ND	ND	0%					50%
trans-1,3-Dichloropropene		1	ND	ND	0%					50%
Ethyl benzene		1	ND	ND	0%					50%
Methylene chloride (Dichloromethane)		1	ND	ND	0%					50%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%					50%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%					50%
Tetrachloroethene (PCE)		1	ND	ND	0%					50%
Toluene		1	ND	ND	0%					50%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%					50%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%					50%
Trichloroethene (TCE)		1	ND	ND	0%					50%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%					50%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%					50%
m,p-Xylenes		1	ND	ND	0%					50%
o-Xylene		1	0.20	0.20	0%					50%
Vinyl chloride (VC)		1	ND	ND	0%					50%
SURROGATE	SPK conc	ACP %	%RC	%RC		%RC	%RC			
Dibromofluoromethane	50	75%-110%	95%	96%						
Toluene-d8	50	80%-115%	96%	96%						
4-Bromofluorobenzene	50	75%-125%	92%	93%						

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 10 1997
Date

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ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

REPORTING UNITS : µg/L

DATE PERFORMED: 1/27/97
SUPPLY SOURCE: Absolut Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 1/27 MS5
Project No: 9636-0541

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	26.1	104%	80%-120%
Bromodichloromethane	25	28.1	112%	80%-120%
Bromoform	25	31.1	124%	80%-120%
Bromomethane	25	21.1	85%	80%-120%
Carbon tetrachloride	25	28.8	115%	80%-120%
Chlorobenzene	25	26.1	104%	80%-120%
Chloroethane	25	20.4	82%	80%-120%
Chloroform	25	26.6	106%	80%-120%
Chloromethane	25	25.0	100%	80%-120%
Dibromochloromethane	25	29.2	117%	80%-120%
1,2-Dichlorobenzene	25	27.0	108%	80%-120%
1,3-Dichlorobenzene	25	25.8	103%	80%-120%
1,4-Dichlorobenzene	25	26.4	106%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	32.6	130%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	26.4	106%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	30.1	121%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	25.7	103%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	26.7	107%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	23.9	96%	80%-120%
1,2-Dichloropropane	25	27.1	109%	80%-120%
cis-1,3-Dichloropropene	25	29.7	119%	80%-120%
trans-1,3-Dichloropropene	25	25.5	102%	80%-120%
Ethyl benzene	25	25.6	103%	80%-120%
Methylene chloride (Dichloromethane)	25	27.5	110%	80%-120%
1,1,1,2-Tetrachloroethane	25	26.8	107%	80%-120%
1,1,2,2-Tetrachloroethane	25	30.3	121%	80%-120%
Tetrachloroethene (PCE)	25	27.5	110%	80%-120%
Toluene	25	25.2	101%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	26.7	107%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	29.5	118%	80%-120%
Trichloroethene (TCE)	25	27.0	108%	80%-120%
Trichlorofluoromethane (Freon 11)	25	30.8	123%	80%-120%
m,p-Xylenes	50	50.6	101%	80%-120%
o-Xylene	25	25.0	100%	80%-120%
Vinyl chloride (VC)	25	24.0	96%	80%-120%
SURROGATE	SPK conc	%RC		
Dibromofluoromethane	50	110%		
Toluene-d8	50	111%		
4-Bromofluorobenzene	50	112%		

Notes :

ND - Analytes not detected at, or above the stated detection limit

Gordy Vogt
Laboratory Director

FEB 1 0 1997
Date

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ONSITE ENVIRONMENTAL LABORATORIES, INC.

1D013MS5-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

REPORTING UNITS : µg/L-air

DATE PERFORMED: 1/27/97
BATCH #: 5-0127-1V

Project No: 9636-0541

		DATE ANALYZED	1/27/97	1/27/97	RPD %	1/27/97	1/27/97	RPD %	RPD LIMIT
		LAB SAMPLE ID	1D013-33	1D013-34		1D013-66	1D013-67		
		CLIENT SAMPLE ID	FSV-01-20	FSV-01-20D		BSV-64-20	BSV-64-20D		
		DILUTION FACTOR	0.1	0.1		0.1	0.1		
COMPOUND		CRDL							
Benzene		1	ND	ND	0%	ND	ND	0%	50%
Bromodichloromethane		1	ND	ND	0%	ND	ND	0%	50%
Bromoform		1	ND	ND	0%	ND	ND	0%	50%
Bromomethane		1	ND	ND	0%	ND	ND	0%	50%
Carbon tetrachloride		1	ND	ND	0%	ND	ND	0%	50%
Chlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
Chloroethane		1	ND	ND	0%	ND	ND	0%	50%
Chloroform		1	ND	ND	0%	ND	ND	0%	50%
Chloromethane		1	ND	ND	0%	ND	ND	0%	50%
Dibromochloromethane		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,3-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,4-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%	ND	ND	0%	50%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%	ND	ND	0%	50%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloropropane		1	ND	ND	0%	ND	ND	0%	50%
cis-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
trans-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
Ethyl benzene		1	ND	ND	0%	ND	ND	0%	50%
Methylene chloride (Dichloromethane)		1	ND	ND	0%	ND	ND	0%	50%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
Tetrachloroethene (PCE)		1	ND	ND	0%	ND	ND	0%	50%
Toluene		1	0.45	0.41	9%	0.51	0.33	43%	50%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%	0.42	0.49	15%	50%
Trichloroethene (TCE)		1	ND	ND	0%	ND	ND	0%	50%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%	ND	ND	0%	50%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%	ND	ND	0%	50%
m,p-Xylenes		1	ND	ND	0%	ND	ND	0%	50%
o-Xylene		1	ND	ND	0%	ND	ND	0%	50%
Vinyl chloride (VC)		1	ND	ND	0%	ND	ND	0%	50%
SURROGATE	SPK conc	ACP %	%RC	%RC		%RC	%RC		
Dibromofluoromethane	50	75%-110%	106%	109%		107%	109%		
Toluene-d8	50	80%-115%	111%	111%		111%	112%		
4-Bromofluorobenzene	50	75%-125%	112%	112%		111%	113%		

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 10 1997
Date

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SDG 1D018 BURBANK AIRPORT

DATA PACKAGE - 8260 Analysis-Soil Vapor

Prepared By:

ONSITE ENVIRONMENTAL LABORATORIES

Submitted To:

FUGRO WEST

42/50

February 1997

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Date: February 10, 1997
From: Garth Voigt
To: Dave Parker
Re: **Case Narrative for Project 9636-0541**
Laboratory ID # 1D018 (01 through 35)

Samples were received by ONSITE Mobile Laboratory # 1 on February 1, 1997 1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D018-01	EQUIPBLK-Dave	February 1, 1997	February 10, 1997	4a
1D018-02	EQUIPBLK-Jeff	February 1, 1997	February 10, 1997	
1D018-03	EQUIPBLK-Frank	February 1, 1997	February 10, 1997	4a
1D018-04	JSV-13-10	February 1, 1997	February 10, 1997	4a
1D018-05	JSV-10-10	February 1, 1997	February 10, 1997	4a
1D018-06	JSV-12-10	February 1, 1997	February 10, 1997	
1D018-07	JSV-10-20	February 1, 1997	February 10, 1997	
1D018-08	JSV-12-20	February 1, 1997	February 10, 1997	4a
1D018-09	JSV-13-20	February 1, 1997	February 10, 1997	
1D018-10	JSV-09-10	February 1, 1997	February 10, 1997	7c
1D018-11	JSV-09-20	February 1, 1997	February 10, 1997	
1D018-12	GSV-44-10	February 1, 1997	February 10, 1997	4a
1D018-13	GSV-36-10	February 1, 1997	February 10, 1997	4a
1D018-14	GSV-44-20	February 1, 1997	February 10, 1997	
1D018-15	GSV-36-20	February 1, 1997	February 10, 1997	
1D018-16	JSV-11-10	February 1, 1997	February 10, 1997	4a
1D018-17	JSV-11-20	February 1, 1997	February 10, 1997	4a
1D018-18	GSV-07-10	February 1, 1997	February 10, 1997	
1D018-19	GSV-08-10	February 1, 1997	February 10, 1997	
1D018-20	JSV-08-10	February 1, 1997	February 10, 1997	4a
1D018-21	GSV-07-20	February 1, 1997	February 10, 1997	4a
1D018-22	GSV-08-20	February 1, 1997	February 10, 1997	
1D018-23	JSV-08-20	February 1, 1997	February 10, 1997	4a
1D018-24	GSV-16-10	February 1, 1997	February 10, 1997	
1D018-25	JSV-07-10	February 1, 1997	February 10, 1997	4a
1D018-26	GSV-17-10	February 1, 1997	February 10, 1997	
1D018-27	JSV-07-20	February 1, 1997	February 10, 1997	
1D018-28	GSV-16-20	February 1, 1997	February 10, 1997	4a
1D018-29	GSV-17-20	February 1, 1997	February 10, 1997	
1D018-30	JSV-06-10	February 1, 1997	February 10, 1997	4a
1D018-31	GSV-26-10	February 1, 1997	February 10, 1997	4a
1D018-32	GSV-25-10	February 1, 1997	February 10, 1997	
1D018-33	JSV-06-20	February 1, 1997	February 10, 1997	
1D018-34	GSV-25-20	February 1, 1997	February 10, 1997	4a
1D018-35	GSV-26-20	February 1, 1997	February 10, 1997	4a

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1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates:All surrogate recoveries were within acceptable parameters.
6a. Surrogates:Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates:Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Sample lost due to system error. Not enough sample to perform reanalysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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LABORATORIES, INC.

Date: February 10, 1997
From: Garth Voigt
To: Dave Parker
Re: Case Narrative for Project 9636-0541
Laboratory ID # 1D018 (36 through 83)

Samples were received by ONSITE Mobile Laboratory # 1 on February 1, 1997 1997 for EPA analysis 8260 - Soil Vapor Analysis

Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D018-36	JSV-05-10	February 1, 1997	February 10, 1997	
1D018-37	GSV-35-10	February 1, 1997	February 10, 1997	
1D018-38	GSV-51-10	February 1, 1997	February 10, 1997	
1D018-39	JSV-05-20	February 1, 1997	February 10, 1997	4a
1D018-40	GSV-51-20	February 1, 1997	February 10, 1997	4a
1D018-41	GSV-51-20D	February 1, 1997	February 10, 1997	
1D018-42	GSV-35-20	February 1, 1997	February 10, 1997	
1D018-43	GSV-35-20D	February 1, 1997	February 10, 1997	
1D018-44	JSV-20-10	February 1, 1997	February 10, 1997	
1D018-45	JSV-20-10D	February 1, 1997	February 10, 1997	4a
1D018-46	JSV-20-20	February 1, 1997	February 10, 1997	4a
1D018-47	GSV-67-10	February 1, 1997	February 10, 1997	
1D018-48	GSV-59-10	February 1, 1997	February 10, 1997	4a
1D018-49	GSV-59-20	February 1, 1997	February 10, 1997	4a
1D018-50	GSV-67-20	February 1, 1997	February 10, 1997	4a
1D018-51	ISV-01-10	February 1, 1997	February 10, 1997	
1D018-52	ISV-02-10	February 1, 1997	February 10, 1997	4a
1D018-53	ISV-04-10	February 1, 1997	February 10, 1997	4a
1D018-54	ISV-01-20	February 1, 1997	February 10, 1997	
1D018-55	ISV-03-10	February 1, 1997	February 10, 1997	
1D018-56	ISV-02-20	February 1, 1997	February 10, 1997	4a
1D018-57	ISV-04-20	February 1, 1997	February 10, 1997	
1D018-58	ISV-03-20	February 1, 1997	February 10, 1997	4a
1D018-59	JSV-25-10	February 1, 1997	February 10, 1997	
1D018-60	JSV-42-10	February 1, 1997	February 10, 1997	
1D018-61	JSV-41-10	February 1, 1997	February 10, 1997	4a
1D018-62	JSV-42-20	February 1, 1997	February 10, 1997	4a
1D018-63	JSV-25-20	February 1, 1997	February 10, 1997	
1D018-64	JSV-41-20	February 1, 1997	February 10, 1997	
1D018-65	JSV-59-10	February 1, 1997	February 10, 1997	4a
1D018-66	JSV-60-10	February 1, 1997	February 10, 1997	4a
1D018-67	JSV-77-10	February 1, 1997	February 10, 1997	
1D018-68	JSV-60-20	February 1, 1997	February 10, 1997	
1D018-69	JSV-77-20	February 1, 1997	February 10, 1997	4a
1D018-70	JSV-59-20	February 1, 1997	February 10, 1997	4a
1D018-71	JSV-78-10	February 1, 1997	February 10, 1997	
1D018-72	JSV-95-10	February 1, 1997	February 10, 1997	
1D018-73	JSV-100-10	February 1, 1997	February 10, 1997	4a
1D018-74	JSV-78-20	February 1, 1997	February 10, 1997	

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Lab ID No.	Field ID No.	Date of Preliminary Report	Date of Final Report	Notes
1D018-75	JSV-94-10	February 1, 1997	February 10, 1997	4a
1D018-76	JSV-95-20	February 1, 1997	February 10, 1997	7c
1D018-77	JSV-95-20D	February 1, 1997	February 10, 1997	7c
1D018-78	JSV-100-20	February 1, 1997	February 10, 1997	4a
1D018-79	JSV-100-20D	February 1, 1997	February 10, 1997	4a
1D018-80	TripBlk-LCW	February 1, 1997	February 10, 1997	
1D018-81	JSV-94-20	February 1, 1997	February 10, 1997	4a
1D018-82	JSV-94-20D	February 1, 1997	February 10, 1997	4a
1D018-83	Travel Blank	February 1, 1997	February 10, 1997	

1. Sample receipt: All Chain of custody and cooler receipt procedures were observed.

2. Calibration checks: All initial and continuing calibration check standards were acceptable for all analyses.

3. Method blank: The method blank was acceptable for all analyses.

4. Laboratory Control/Laboratory Control Dup. Sample: The LCS recoveries were acceptable for all analyses.
4a. Laboratory Control/Laboratory Control Dup. Sample: The LCS associated with these samples had analyte recoveries outside of QC limits. All other QC was acceptable.
5. Matrix Spike/Matrix Spike Duplicate: The MS/MSD analyses' are not required for Soil Vapor.

6. Surrogates:All surrogate recoveries were within acceptable parameters.
6a. Surrogates:Surrogate recoveries were outside of QC limits due to matrix effects.
6b. Surrogates:Surrogate recoveries were above QC limits. This was reported to the client. As the sample result was ND, the sample was not re-extracted.

7. Samples: Sample results were satisfactory for all parameters
7a. Samples: Samples were re-analyzed in order to demonstarte matrix interference.
7b. Samples: Samples were diluted in order to bring target analytes within calibration range.
7c. Samples: Sample lost due to system error. Not enough sample to perform reanalysis.

8. Sample Duplicates: The sample duplicates were acceptable for all analyses'.

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

Laboratory Name: Onsite Environmental Laboratories, Inc.

Address: 5500 Boscell Common
Fremont, CA 94538

Telephone/FAX: (510) 490-8571 / (510) 490-8572

ELAP Certification No. 1774 Expiration Date: 7/31/98

Authorized Signature
Name, Title (print) Gareth Voigt, Laboratory Director

Signature, Date Gareth Voigt 2/10/97

Client Name: Fugro West, Inc.

Project No.: 9636-0541

Date(s) Sampled: 2/1/97 To 2/1/97

Date(s) received: 2/1/97 To 2/1/97

Date(s) reported: 2/2/97

Chain of custody received: Yes ____ No ____

Comments:

(RWQCB LabForm;Ver12/

BGPA

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

Organic Analyses # of Samples # of Samples Subcontracted

83 Soil vapor and air Samples for 8260

NOTE: 3 Samples Lost due to system error.

Sample Condition: Acceptable

Inorganic Analyses # of Samples # of Samples Subcontracted

Sample Condition:

Microbiological Analyses # of Samples # of Samples Subcontracted

Sample Condition:

Other Types of Analyses # of Samples # of Samples Subcontracted

Sample condition:

(RWQCB LabForm;Ver12/

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ANALYTICAL RESULTS SUMMARY

ONSITE
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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-01	1D018-02	1D018-03	1D018-04	1D018-05	1D018-06	1D018-07
		CLIENT SAMPLE ID	EquipBlk-D	EquipBlk-J	EquipBlk-F	JSV-13-10	JSV-10-10	JSV-12-10	JSV-10-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.2
COMPOUND		CRDL	MB	MB	MB				
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	1.8	ND	ND	1.4
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	2.3	ND	ND	1.8
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	96%	103%	108%	112%	97%	102%	94%
Toluene-d8	50	80%-115%	99%	101%	113%	113%	98%	100%	100%
4-Bromofluorobenzene	50	75%-125%	90%	98%	110%	109%	96%	97%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-08	1D018-09	1D018-10	1D018-11	1D018-12	1D018-13	1D018-14
		CLIENT SAMPLE ID	JSV-12-20	JSV-13-20	JSV-09-10	JSV-09-20	GSV-44-10	GSV-36-10	GSV-44-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	3.8	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	4.6	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	1.3 J	ND	ND	ND	ND	ND
o-Xylene		1	ND	1.2	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	1.1	ND	1.8
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	96%	97%		106%	109%	94%	94%
Toluene-d8	50	80%-115%	97%	101%		102%	112%	98%	100%
4-Bromofluorobenzene	50	75%-125%	92%	95%		96%	110%	92%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
[ ] Sample Lost due to system error.
J - Estimated value
Dilution factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-15	1D018-16	1D018-17	1D018-18	1D018-19	1D018-20	1D018-21
		CLIENT SAMPLE ID	GSV-36-20	JSV-11-10	JSV-11-20	GSV-07-10	GSV-08-10	JSV-08-10	GSV-07-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	1.1
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	1.1	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	104%	111%	95%	94%	93%	111%	92%
Toluene-d8	50	80%-115%	101%	113%	97%	100%	101%	112%	97%
4-Bromofluorobenzene	50	75%-125%	94%	110%	91%	102%	90%	112%	93%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
* - Hydrocarbons Within Gasoline Range Detected in Sample
Dilution Factor equal 1 for 5.0cc injection

Gordy Vogt
Laboratory Director

FEB 11 1997
Date

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ONSITE
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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-22	1D018-23	1D018-24	1D018-25	1D018-26	1D018-27	1D018-28
		CLIENT SAMPLE ID	GSV-08-20	JSV-08-20	GSV-16-10	JSV-07-10	GSV-17-10	JSV-07-20	GSV-16-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	2.1 J	ND	2.1 J	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	107%	111%	95%	93%	103%	94%	110%
Toluene-d8	50	80%-115%	102%	112%	100%	96%	101%	100%	112%
4-Bromofluorobenzene	50	75%-125%	96%	111%	101%	89%	97%	101%	112%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
* - Hydrocarbons Within Gasoline Range Detected in Sample
Dilution Factor equal 1 for 5.0cc injection

Harold Vogt
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-29	1D018-30	1D018-31	1D018-32	1D018-33	1D018-34	1D018-35
		CLIENT SAMPLE ID	GSV-17-20	JSV-06-10	GSV-26-10	GSV-25-10	JSV-06-20	GSV-25-20	GSV-26-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	1.5	ND	ND	ND	ND	1.9	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	1.9 J	ND	1.1 J	3.5 J	ND	5.4 J	4.4 J
m,p-Xylenes		1	ND	ND	ND	1.2	ND	1.4	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	106%	92%	112%	95%	104%	94%	112%
Toluene-d8	50	80%-115%	102%	94%	112%	99%	102%	98%	111%
4-Bromofluorobenzene	50	75%-125%	98%	90%	112%	102%	98%	91%	112%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution factor equal 1 for 5.0cc injection

Gareth Voight
Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-36	1D018-37	1D018-38	1D018-39	1D018-40	1D018-41	1D018-42
		CLIENT SAMPLE ID	JSV-05-10	GSV-35-10	GSV-51-10	JSV-05-20	GSV-51-20	GSV-51-20D	GSV-35-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	2.3	ND	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	15 J	4.7 J	ND	4.5 J	4.9 J	17 J
m,p-Xylenes		1	ND	ND	ND	ND	1.3	1.3	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	104%	95%	111%	94%	102%	101%	94%
Toluene-d8	50	80%-115%	102%	100%	112%	97%	100%	101%	100%
4-Bromofluorobenzene	50	75%-125%	99%	101%	111%	94%	99%	100%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 9636-0541 REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-43	1D018-44	1D018-45	1D018-46	1D018-47	1D018-48	1D018-49
		CLIENT SAMPLE ID	GSV-35-200	JSV-20-10	JSV-20-100	JSV-20-20	GSV-67-10	GSV-59-10	GSV-59-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	1.2	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	3.4	8.3	3.4
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	5.5 J	ND	ND	ND	34 J	44 J	19 J
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	82%	111%	111%	96%	113%	96%	109%
Toluene-d8	50	80%-115%	98%	112%	111%	101%	111%	96%	110%
4-Bromofluorobenzene	50	75%-125%	95%	111%	111%	101%	112%	89%	112%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-50	1D018-51	1D018-52	1D018-53	1D018-54	1D018-55	1D018-56
		CLIENT SAMPLE ID	GSV-67-20	ISV-01-10	ISV-02-10	ISV-04-10	ISV-01-20	ISV-03-10	ISV-02-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	3.0
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	2.6	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	7.4	ND	ND	ND
Toluene		1	ND	ND	1.2	ND	ND	ND	1.3
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	3.0 J	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	30 J	ND	ND	1.3	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	103%	94%	112%	94%	101%	98%	95%
Toluene-d8	50	80%-115%	100%	98%	110%	100%	99%	97%	100%
4-Bromofluorobenzene	50	75%-125%	100%	93%	112%	99%	97%	92%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gordon Vogt
Laboratory Director

FEB 11 1997
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-57	1D018-58	1D018-59	1D018-60	1D018-61	1D018-62	1D018-63
		CLIENT SAMPLE ID	ISV-04-20	ISV-03-20	JSV-25-10	JSV-42-10	JSV-41-10	JSV-42-20	JSV-25-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	ND	ND	7.1	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	ND	ND	ND	ND
Toluene		1	1.4	ND	ND	ND	3.2	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	111%	103%	101%	97%	110%	94%	88%
Toluene-d8	50	80%-115%	112%	100%	99%	98%	110%	100%	96%
4-Bromofluorobenzene	50	75%-125%	112%	97%	97%	93%	110%	101%	91%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gareth Vogt
Laboratory Director

FEB 11 1997
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-64	1D018-65	1D018-66	1D018-67	1D018-68	1D018-69	1D018-70
		CLIENT SAMPLE ID	JSV-41-20	JSV-59-10	JSV-60-10	JSV-77-10	JSV-60-20	JSV-77-20	JSV-59-20
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	13	ND	ND	4.9	ND	7.4	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	ND	2.7	ND	6.3	ND
Toluene		1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	5.7	ND	ND	2.4	ND	3.6	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	ND	ND	ND	1.4	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	111%	98%	95%	111%	111%	96%	95%
Toluene-d8	50	80%-115%	112%	97%	101%	101%	112%	98%	100%
4-Bromofluorobenzene	50	75%-125%	111%	92%	102%	100%	112%	93%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-71	1D018-72	1D018-73	1D018-74	1D018-75	1D018-76	1D018-77
		CLIENT SAMPLE ID	JSV-78-10	JSV-95-10	JSV-100-10	JSV-78-20	JSV-94-10	JSV-95-20	JSV-95-200
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL							
Benzene		1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	1.4	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	ND	ND	17	ND	ND	ND	ND
Toluene		1	ND	ND	4.3	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	ND	ND	3.2	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	104%	110%	95%	103%	96%		
Toluene-d8	50	80%-115%	101%	110%	100%	102%	97%		
4-Bromofluorobenzene	50	75%-125%	98%	112%	101%	98%	92%		

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
[ ] Sample Lost due to system error.
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Gerald Vogt
Laboratory Director

FEB 11 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

		DATE ANALYZED	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97	2/1/97
		LAB SAMPLE ID	1D018-78	1D018-79	1D018-80	1D018-81	1D018-82	1D018-83
		CLIENT SAMPLE ID	JSV-100-20	JSV-100-20D	TripBlk-LCW	JSV-94-20	JSV-94-20D	Travel Blk
		DILUTION FACTOR	0.1	0.1	0.1	0.1	0.1	0.1
COMPOUND		CRDL						
Benzene		1	ND	ND	ND	ND	ND	ND
Bromodichloromethane		1	ND	ND	ND	ND	ND	ND
Bromoform		1	ND	ND	ND	ND	ND	ND
Bromomethane		1	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		1	ND	ND	ND	ND	ND	ND
Chlorobenzene		1	ND	ND	ND	ND	ND	ND
Chloroethane		1	ND	ND	ND	ND	ND	ND
Chloroform		1	ND	ND	ND	ND	ND	ND
Chloromethane		1	ND	ND	ND	ND	ND	ND
Dibromochloromethane		1	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		1	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		1	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		1	4.2	3.4	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		1	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		1	ND	ND	ND	ND	ND	ND
Ethyl benzene		1	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		1	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		1	58 J	54 J	ND	ND	ND	ND
Toluene		1	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		1	2.3	1.8	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		1	12	10	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		1	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	ND	ND	ND	ND
m,p-Xylenes		1	ND	ND	ND	ND	ND	ND
o-Xylene		1	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		1	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	111%	108%	99%	96%	95%	104%
Toluene-d8	50	80%-115%	112%	111%	100%	97%	98%	101%
4-Bromofluorobenzene	50	75%-125%	112%	111%	96%	94%	94%	98%

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
J - Estimated value
Dilution Factor equal 1 for 5.0cc injection

Laboratory Director

FEB 11 1997
Date

Printed on recycled paper.

QA/QC RESULTS SUMMARY

ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 2/1/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 2/1 MS5

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	50	50.1	100%	80%-120%
Bromodichloromethane	50	54.9	110%	80%-120%
Bromoform	50	54.7	109%	80%-120%
Bromomethane	50	45.7	91%	80%-120%
Carbon tetrachloride	50	56.1	112%	80%-120%
Chlorobenzene	50	50.8	102%	80%-120%
Chloroethane	50	43.2	86%	80%-120%
Chloroform	50	52.6	105%	80%-120%
Chloromethane	50	41.0	82%	80%-120%
Dibromochloromethane	50	53.3	107%	80%-120%
1,2-Dichlorobenzene	50	54.0	108%	80%-120%
1,3-Dichlorobenzene	50	53.7	107%	80%-120%
1,4-Dichlorobenzene	50	53.9	108%	80%-120%
Dichlorodifluoromethane (Freon 12)	50	34.8	70%	80%-120%
1,1-Dichloroethane (1,1-DCA)	50	51.3	103%	80%-120%
1,2-Dichloroethane (1,2-DCA)	50	57.0	114%	80%-120%
1,1-Dichloroethene (1,1-DCE)	50	47.6	95%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	50	51.8	104%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	50	46.0	92%	80%-120%
1,2-Dichloropropane	50	53.5	107%	80%-120%
cis-1,3-Dichloropropene	50	57.8	116%	80%-120%
trans-1,3-Dichloropropene	50	48.8	98%	80%-120%
Ethyl benzene	50	51.8	104%	80%-120%
Methylene chloride (Dichloromethane)	50	51.3	103%	80%-120%
1,1,1,2-Tetrachloroethane	50	52.6	105%	80%-120%
1,1,2,2-Tetrachloroethane	50	53.2	106%	80%-120%
Tetrachloroethene (PCE)	50	54.7	109%	80%-120%
Toluene	50	49.6	99%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	50	52.4	105%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	50	54.5	109%	80%-120%
Trichloroethene (TCE)	50	52.9	106%	80%-120%
Trichlorofluoromethane (Freon 11)	50	56.6	113%	80%-120%
m,p-Xylenes	100	104.5	105%	80%-120%
o-Xylene	50	51.5	103%	80%-120%
Vinyl chloride (VC)	50	44.5	89%	80%-120%
SURROGATE	SPK conc	%RC		
Dibromofluoromethane	50	111%		
Toluene-d8	50	111%		
4-Bromofluorobenzene	50	111%		

Notes : ND - Analytes not detected at, or above the stated detection limit

Gordy Vogt
Laboratory Director

FEB 11 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

1D018MS5-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 2/1/97
BATCH #: 5-0201-1V

		DATE ANALYZED	2/1/97	2/1/97	RPD %	2/1/97	2/1/97	RPD %	RPD LIMIT
		LAB SAMPLE ID	1D018-44	1D018-45		1D018-78	1D018-79		
		CLIENT SAMPLE ID	JSV-20-10	JSV-20-10D		JSV-100-20	JSV-100-20D		
		DILUTION FACTOR	0.1	0.1		0.1	0.1		
COMPOUND		CRDL							
Benzene		1	ND	ND	0%	ND	ND	0%	50%
Bromodichloromethane		1	ND	ND	0%	ND	ND	0%	50%
Bromoform		1	ND	ND	0%	ND	ND	0%	50%
Bromomethane		1	ND	ND	0%	ND	ND	0%	50%
Carbon tetrachloride		1	ND	ND	0%	ND	ND	0%	50%
Chlorobenzene		1	ND	ND	0%	0.35	0.29	19%	50%
Chloroethane		1	ND	ND	0%	ND	ND	0%	50%
Chloroform		1	ND	ND	0%	ND	ND	0%	50%
Chloromethane		1	ND	ND	0%	0.39	0.31	22%	50%
Dibromochloromethane		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,3-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
1,4-Dichlorobenzene		1	ND	ND	0%	ND	ND	0%	50%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%	ND	ND	0%	50%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%	4.2	3.4	21%	50%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%	ND	ND	0%	50%
1,2-Dichloropropane		1	ND	ND	0%	ND	ND	0%	50%
cis-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
trans-1,3-Dichloropropene		1	ND	ND	0%	ND	ND	0%	50%
Ethyl benzene		1	ND	ND	0%	ND	ND	0%	50%
Methylene chloride (Dichloromethane)		1	ND	ND	0%	ND	ND	0%	50%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%	ND	ND	0%	50%
Tetrachloroethene (PCE)		1	ND	ND	0%	ND	ND	0%	50%
Toluene		1	ND	ND	0%	58	54	6%	50%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%	ND	ND	0%	50%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%	2.2	1.8	21%	50%
Trichloroethene (TCE)		1	ND	ND	0%	ND	ND	0%	50%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%	12	10	18%	50%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%	ND	ND	0%	50%
m,p-Xylenes		1	ND	ND	0%	0.55	0.45	20%	50%
o-Xylene		1	ND	ND	0%	ND	ND	0%	50%
Vinyl chloride (VC)		1	ND	ND	0%	ND	ND	0%	50%
SURROGATE	SPK conc	ACP %	%RC	%RC		%RC	%RC		
Dibromofluoromethane	50	75%-110%	111%	111%		111%	109%		
Toluene-d8	50	80%-115%	112%	111%		112%	111%		
4-Bromofluorobenzene	50	75%-125%	111%	111%		112%	111%		

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Sarah Vogt
Laboratory Director

FEB 11 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

1D018MS4-QCV LCS

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L

DATE PERFORMED: 2/1/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS01 2/1 MS4

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	21.3	85%	80%-120%
Bromodichloromethane	25	20.8	83%	80%-120%
Bromoform	25	17.7	71%	80%-120%
Bromomethane	25	21.9	87%	80%-120%
Carbon tetrachloride	25	20.3	81%	80%-120%
Chlorobenzene	25	20.7	83%	80%-120%
Chloroethane	25	22.8	91%	80%-120%
Chloroform	25	22.3	89%	80%-120%
Chloromethane	25	21.4	85%	80%-120%
Dibromochloromethane	25	18.5	74%	80%-120%
1,2-Dichlorobenzene	25	22.3	89%	80%-120%
1,3-Dichlorobenzene	25	21.5	86%	80%-120%
1,4-Dichlorobenzene	25	20.9	84%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	19.8	79%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	22.8	91%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	22.2	89%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	21.7	87%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	23.5	94%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	20.8	83%	80%-120%
1,2-Dichloropropane	25	22.3	89%	80%-120%
cis-1,3-Dichloropropene	25	23.7	95%	80%-120%
trans-1,3-Dichloropropene	25	19.6	78%	80%-120%
Ethyl benzene	25	21.8	87%	80%-120%
Methylene chloride (Dichloromethane)	25	21.5	86%	80%-120%
1,1,1,2-Tetrachloroethane	25	19.7	79%	80%-120%
1,1,2,2-Tetrachloroethane	25	20.2	81%	80%-120%
Tetrachloroethene (PCE)	25	21.3	85%	80%-120%
Toluene	25	21.9	87%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	22.6	90%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	21.0	84%	80%-120%
Trichloroethene (TCE)	25	21.6	86%	80%-120%
Trichlorofluoromethane (Freon 11)	25	23.5	94%	80%-120%
m,p-Xylenes	50	42.8	86%	80%-120%
o-Xylene	25	21.1	84%	80%-120%
Vinyl chloride (VC)	25	22.3	89%	80%-120%

SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		97%		
Toluene-d8	50		98%		
4-Bromofluorobenzene	50		94%		

Notes :

ND - Analytes not detected at, or above the stated detection limit

Gerald Voigt
Laboratory Director

FEB 11 1997
Date

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BGPAA

ONSITE ENVIRONMENTAL LABORATORIES, INC.

1D018MS4-QCV Dup

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

Project No: 9636-0541

REPORTING UNITS : µg/L-air

DATE PERFORMED: 2/1/97

BATCH #: 4-0201-1V

		DATE ANALYZED	2/1/97	2/1/97	RPD %
		LAB SAMPLE ID	1D018-81	1D018-82	
		CLIENT SAMPLE ID	JSV-94-20	JSV-94-20D	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	ND	ND	0%
Toluene		1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	ND	ND	0%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	96%	95%	
Toluene-d8	50	80%-115%	97%	98%	
4-Bromofluorobenzene	50	75%-125%	94%	94%	

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gareth Vargt

Laboratory Director

FEB 11 1997

Date

BGPAA 06

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 2/1/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 2/1 MS3

ANALYTE		SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		25	23.0	92%	80%-120%
Bromodichloromethane		25	21.9	88%	80%-120%
Bromoform		25	20.0	80%	80%-120%
Bromomethane		25	21.3	85%	80%-120%
Carbon tetrachloride		25	22.1	88%	80%-120%
Chlorobenzene		25	24.1	96%	80%-120%
Chloroethane		25	21.6	86%	80%-120%
Chloroform		25	22.4	90%	80%-120%
Chloromethane		25	22.3	89%	80%-120%
Dibromochloromethane		25	20.8	83%	80%-120%
1,2-Dichlorobenzene		25	23.6	95%	80%-120%
1,3-Dichlorobenzene		25	24.0	96%	80%-120%
1,4-Dichlorobenzene		25	23.9	95%	80%-120%
Dichlorodifluoromethane (Freon 12)		25	21.3	85%	80%-120%
1,1-Dichloroethane (1,1-DCA)		25	22.4	89%	80%-120%
1,2-Dichloroethane (1,2-DCA)		25	22.7	91%	80%-120%
1,1-Dichloroethene (1,1-DCE)		25	21.2	85%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)		25	22.7	91%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)		25	21.6	86%	80%-120%
1,2-Dichloropropane		25	22.7	91%	80%-120%
cis-1,3-Dichloropropene		25	22.8	91%	80%-120%
trans-1,3-Dichloropropene		25	21.3	85%	80%-120%
Ethyl benzene		25	24.4	97%	80%-120%
Methylene chloride (Dichloromethane)		25	21.2	85%	80%-120%
1,1,1,2-Tetrachloroethane		25	23.0	92%	80%-120%
1,1,2,2-Tetrachloroethane		25	21.8	87%	80%-120%
Tetrachloroethene (PCE)		25	23.4	94%	80%-120%
Toluene		25	22.7	91%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)		25	21.7	87%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)		25	21.3	85%	80%-120%
Trichloroethene (TCE)		25	22.3	89%	80%-120%
Trichlorofluoromethane (Freon 11)		25	20.0	80%	80%-120%
m,p-Xylenes		50	48.6	97%	80%-120%
o-Xylene		25	23.1	93%	80%-120%
Vinyl chloride (VC)		25	26.4	106%	80%-120%
SURROGATE	SPK conc		%RC		
Dibromofluoromethane	50		93%		
Toluene-d8	50		100%		
4-Bromofluorobenzene	50		99%		

Notes : ND - Analytes not detected at, or the stated detection limit (1ug/L air)

Gareth Vargt
Laboratory Director

FEB 11 1997
Date

1D018MS3-QCV Dup

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.
[redacted] 9636-0541

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260

REPORTING UNITS : µg/L-air

DATE PERFORMED: 2/1/97
BATCH #: 3-0201-1V

		DATE ANALYZED	2/1/97	2/1/97	RPD %
		LAB SAMPLE ID	1D018-42	1D018-43	
		CLIENT SAMPLE ID	GSV-35-20	GSV-35-20D	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	0.37	0.25	39%
Toluene		1	ND	ND	0%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	17	5.5	102%
m,p-Xylenes		1	ND	ND	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	93%	82%	
Toluene-d8	50	80%-115%	100%	98%	
4-Bromofluorobenzene	50	75%-125%	101%	95%	

Notes :

ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gerald Vogt
Laboratory Director

FEB 11 1997
Date

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ONSITE
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LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L

DATE PERFORMED: 2/1/97
SUPPLY SOURCE: Absolute Standards, INC.
LOT NUMBER: 071096(gases), 050595(liq.)
DATE OF SOURCE: 1/21/97

LAB LCS ID: LCS 2/1 MS2

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	25	24.2	97%	80%-120%
Bromodichloromethane	25	25.0	100%	80%-120%
Bromoform	25	24.2	97%	80%-120%
Bromomethane	25	28.7	115%	80%-120%
Carbon tetrachloride	25	24.1	97%	80%-120%
Chlorobenzene	25	23.9	96%	80%-120%
Chloroethane	25	25.8	103%	80%-120%
Chloroform	25	25.0	100%	80%-120%
Chloromethane	25	23.1	92%	80%-120%
Dibromochloromethane	25	24.7	99%	80%-120%
1,2-Dichlorobenzene	25	24.4	98%	80%-120%
1,3-Dichlorobenzene	25	24.4	97%	80%-120%
1,4-Dichlorobenzene	25	24.7	99%	80%-120%
Dichlorodifluoromethane (Freon 12)	25	23.8	95%	80%-120%
1,1-Dichloroethane (1,1-DCA)	25	25.0	100%	80%-120%
1,2-Dichloroethane (1,2-DCA)	25	26.5	106%	80%-120%
1,1-Dichloroethene (1,1-DCE)	25	24.7	99%	80%-120%
cis-1,2-Dichloroethene (c-1,2-DCE)	25	24.8	99%	80%-120%
trans-1,2-Dichloroethene (t-1,2-DCE)	25	24.9	100%	80%-120%
1,2-Dichloropropane	25	25.4	101%	80%-120%
cis-1,3-Dichloropropene	25	25.5	102%	80%-120%
trans-1,3-Dichloropropene	25	25.7	103%	80%-120%
Ethyl benzene	25	23.2	93%	80%-120%
Methylene chloride (Dichloromethane)	25	23.7	95%	80%-120%
1,1,1,2-Tetrachloroethane	25	22.1	88%	80%-120%
1,1,2,2-Tetrachloroethane	25	26.2	105%	80%-120%
Tetrachloroethene (PCE)	25	22.8	91%	80%-120%
Toluene	25	23.5	94%	80%-120%
1,1,1-Trichloroethane (1,1,1-TCA)	25	24.3	97%	80%-120%
1,1,2-Trichloroethane (1,1,2-TCA)	25	25.6	102%	80%-120%
Trichloroethene (TCE)	25	24.9	100%	80%-120%
Trichlorofluoromethane (Freon 11)	25	24.3	97%	80%-120%
m,p-Xylenes	50	45.2	90%	80%-120%
o-Xylene	25	22.7	91%	80%-120%
Vinyl chloride (VC)	25	24.1	96%	80%-120%
SURROGATE	SPK conc		%RC	
Dibromofluoromethane	50		102%	
Toluene-d8	50		101%	
4-Bromofluorobenzene	50		103%	

Notes : ND - Analytes not detected at, or above the stated detection limit

Gareth Vargt
Laboratory Director

FEB 11 1997
Date

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1D018MS2-QCV Dup

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 9636-0541 | REPORTING UNITS : µg/L-air

DATE PERFORMED: 2/1/97
BATCH #: 2-0201-1V

		DATE ANALYZED	2/2/97	2/2/97	RPD %
		LAB SAMPLE ID	1D018-40	1D018-41	
		CLIENT SAMPLE ID	GSV-51-20	GSV-51-20DI	
		DILUTION FACTOR	0.1	0.1	
COMPOUND		CRDL			
Benzene		1	ND	ND	0%
Bromodichloromethane		1	ND	ND	0%
Bromoform		1	ND	ND	0%
Bromomethane		1	ND	ND	0%
Carbon tetrachloride		1	ND	ND	0%
Chlorobenzene		1	ND	ND	0%
Chloroethane		1	ND	ND	0%
Chloroform		1	ND	ND	0%
Chloromethane		1	ND	ND	0%
Dibromochloromethane		1	ND	ND	0%
1,2-Dichlorobenzene		1	ND	ND	0%
1,3-Dichlorobenzene		1	ND	ND	0%
1,4-Dichlorobenzene		1	ND	ND	0%
Dichlorodifluoromethane (Freon 12)		1	ND	ND	0%
1,1-Dichloroethane (1,1-DCA)		1	ND	ND	0%
1,2-Dichloroethane (1,2-DCA)		1	ND	ND	0%
1,1-Dichloroethene (1,1-DCE)		1	ND	ND	0%
cis-1,2-Dichloroethene (c-1,2-DCE)		1	ND	ND	0%
trans-1,2-Dichloroethene (t-1,2-DCE)		1	ND	ND	0%
1,2-Dichloropropane		1	ND	ND	0%
cis-1,3-Dichloropropene		1	ND	ND	0%
trans-1,3-Dichloropropene		1	ND	ND	0%
Ethyl benzene		1	ND	ND	0%
Methylene chloride (Dichloromethane)		1	ND	ND	0%
1,1,1,2-Tetrachloroethane		1	ND	ND	0%
1,1,2,2-Tetrachloroethane		1	ND	ND	0%
Tetrachloroethene (PCE)		1	0.51	0.64	22%
Toluene		1	0.70	0.72	2%
1,1,1-Trichloroethane (1,1,1-TCA)		1	ND	ND	0%
1,1,2-Trichloroethane (1,1,2-TCA)		1	ND	ND	0%
Trichloroethene (TCE)		1	ND	ND	0%
Trichlorofluoromethane (Freon 11)		1	ND	ND	0%
Trichlorotrifluoroethane (Freon 113)		1	4.5	4.9	9%
m,p-Xylenes		1	1.3	1.3	0%
o-Xylene		1	ND	ND	0%
Vinyl chloride (VC)		1	ND	ND	0%
SURROGATE	SPK conc	ACP %	%RC	%RC	
Dibromofluoromethane	50	75%-110%	102%	101%	
Toluene-d8	50	80%-115%	101%	101%	
4-Bromofluorobenzene	50	75%-125%	99%	100%	

Notes :
ND - Analytes not detected at, or above the stated detection limit
CRDL - Detection limit, equal 1µg/L air
Dilution Factor equal 1 for 5.0cc injection

Gareth Vogt
Laboratory Director

FEB 11 1997
Date

BGPAA 0633

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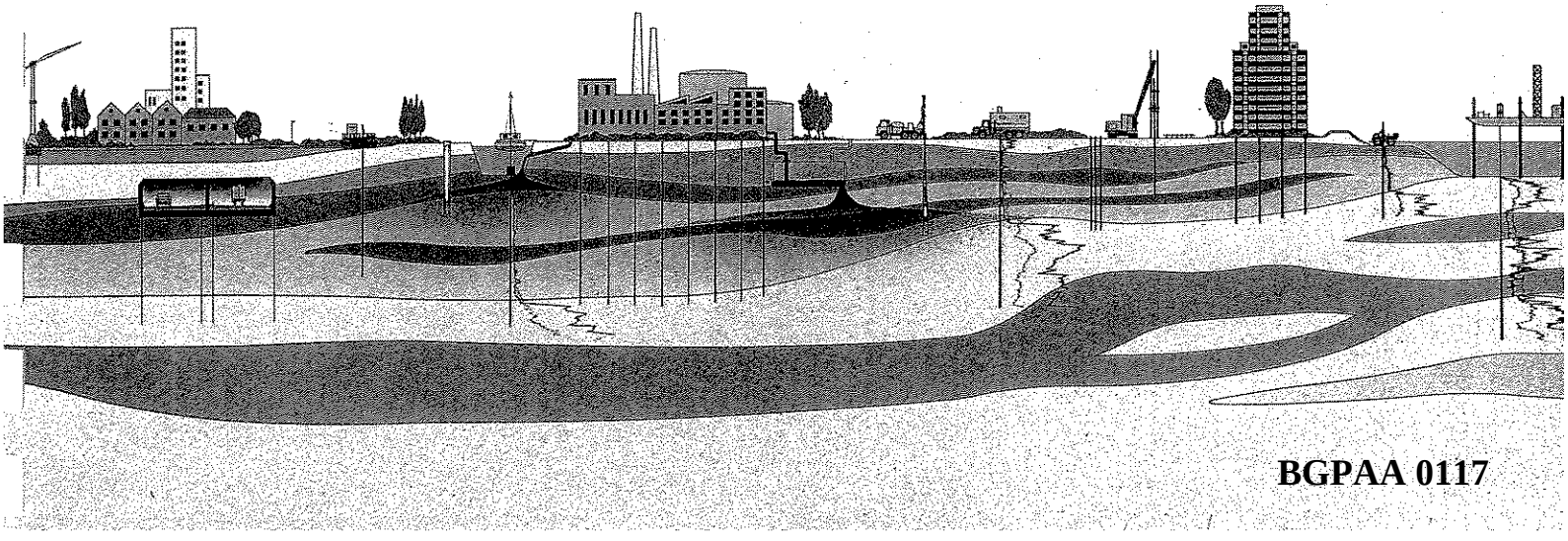
FUGRO WEST, INC.

SUPPLEMENTAL SOIL VAPOR SURVEYS
SIX SITES
BURBANK-GLENDALE-PASADENA AIRPORT
BURBANK, CALIFORNIA

Prepared for:
BURBANK-GLENDALE-PASADENA AIRPORT AUTHORITY
Work Order No. 18.1, Document No. 7

January 1996



BGPAA 0117

FUGRO WEST, INC.

315 Arden Avenue, Suite 24
Glendale, CA 91203
Tel: (818) 546-2090
Fax: (818) 546-2091

January 29, 1996
Project No. 95-36-1101
Work Order No. 18.1, Document No. 7

Burbank-Glendale-Pasadena Airport Authority
2627 Hollywood Way
Burbank, California 91505

Attention: Mr. Dan Feger

Supplemental Soil Vapor Surveys
Six Sites
Burbank-Glendale-Pasadena Airport
Burbank, California

Dear Mr. Feger:

Fugro West, Inc. (Fugro) is pleased to submit the results of supplemental soil vapor surveys conducted between December 19 and 22, 1995, at six sites at the Burbank-Glendale-Pasadena Airport. This work was conducted in accordance with our work plan dated November 28, 1995, amended by the State of California, Regional Water Quality Control Board's (RWQCB) approval letter dated December 11, 1995. All work was conducted under the supervision of a California-registered geologist and in accordance with the RWQCB protocol for the Well Investigation Program (WIP).

We appreciate the opportunity to be of service on this project. Should you have any questions or comments regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

FUGRO WEST, INC.

Alison L. Canning
Senior Environmental Geologist

Jerome K. Summerlin, CEG
Senior Geologist

REGISTERED GEOLOGIST
JEROME K. SUMMERLIN
EG NO. 1950
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

AC:sdf
Copies Submitted: (1)
c: Regional Water Quality Control Board, Los Angeles Region, Attn: Mr. Hubert Kang (3)

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APPENDICES

APPENDIX A: RWQCB CORRESPONDENCE
APPENDIX B: SOIL VAPOR SURVEY REPORT

INTRODUCTION

This report presents the results of supplemental soil vapor surveys conducted by Fugro West, Inc. (Fugro) at the following six sites at the Burbank-Glendale-Pasadena Airport located in Burbank, California:

1. "Old Trapper's" Property
2. Former American Drug and Chemical Company
3. Former Paint Shop
4. Former Bo Jamison Company Wash Rack
5. Former Civil Air Patrol Fire Training Pit
6. Former Bunker Simulated Gasoline Fire Training Pit

This assessment consisted of shallow soil vapor sample collection and analysis from the above-listed six areas at the airport. All work was conducted under the supervision of a Fugro California-registered geologist and in accordance with the State of California, Regional Water Quality Control Board (RWQCB) protocol for the Well Investigation Program (WIP). The work was also conducted in accordance with the *Soil Vapor Survey Work Plan* prepared by Fugro, dated November 28, 1995, amended by the RWQCB's approval letter dated December 11, 1995 (Appendix A - RWQCB Correspondence).

BACKGROUND

The Burbank Airport is situated in the northwesternmost corner of the City of Burbank (Plate 1 - Vicinity Map). The six assessment sites are shown on Plate 2 - Burbank-Glendale-Pasadena Airport Plan. Individual assessment sites are illustrated on Plates 3 through 8 - Soil Gas Survey Locations. A brief description of each site is presented below, followed by a summary of previous assessment work.

Site Descriptions

The "Old Trapper's" Property is located on the northern side of the airport at 10340 Keswick Street in Sun Valley, California. The site is bound by San Fernando Road to the north, Arvilla Avenue to the east, the "Hazel Martin" property to the south, and property of the Burbank Airport to the west. The site is currently leased to a company that uses the site to park film studio on-location dressing trailers. A gasoline station was formerly located on the northwestern corner of the intersection of Arvilla Avenue and Keswick Street.

The Former American Drug and Chemical Company is located on the northern side of the airport. The site is bound by San Fernando Road to the north, property of the Burbank Airport to the east, Plastic Pipe and Fittings Company to the south, and light industrial/commercial property to the west. The property is currently used as a maintenance yard for the Airport and includes a maintenance office and associated sump, a shed and associated car wash clarifier, a diesel fuel pump, and a paint storage area. The site is approximately 260 feet by 480 feet in area. This property was formerly used for the storage and manufacture of drugs and chemicals. Three vertical aboveground storage tanks utilized to store unknown contents were formerly located on the site.

The Former Paint Shop area is located at the northern end of the north-south runway at the airport and is approximately 150 by 200 feet in area. This property was formerly used as a paint storage and use area, but is currently vacant. A concrete foundation from the former building remains on the property.

The Former Bo Jamison Company Wash Rack area is located on the northwestern corner of the intersection of the two runways at the airport and is currently covered by a taxiway. This area was formerly used for washing, repair, and maintenance of aircraft. A 200-foot by 200-foot pad for washing drained to a clarifier. In 1990, this clarifier was cleaned, found to be intact, and removed.

The Former Civil Air Patrol Fire Pit is located on the western end of the airport near Building 1A, the westernmost of the Mercury Air Center buildings. The site is bound to the north by a service road and to the south by railroad tracks. The pit area is approximately 200 feet by 300 feet and is currently used for parking airplanes. This area was originally part of California Air Guard property and was formerly used to train personnel in fighting airplane fires.

The Former Bunker Simulated Gasoline Fire Pit is located on the western end of the airport. The site is bound to the north by a service road, to the south by railroad tracks, and to the west by Vineland Avenue. The pit area is approximately 150 feet by 350 feet and is currently used for parking airplanes. This area was originally part of California Air Guard property and was formerly used to train personnel in fighting gasoline fires.

Previous Environmental Assessment Activities

A.L. Burke Engineers, Inc. (Burke) conducted an assessment of the "Old Trapper's" Property in 1987 that included historical research, a geophysical survey, collection and analysis of soil samples, and collection and analysis of air/gas samples from "swollen ground" over cesspools and septic systems. The results of this assessment were presented in a Burke report titled *Environmental Evaluation*, dated December 1987.

In June 1990, Burke completed a soil boring and sampling program at several locations at the airport, including the Former American Drug and Chemical Company, the Former Paint Shop, the Former Bo Jamison Company Wash Rack, the Former Civil Air Patrol Fire Pit, and the Former Bunker Simulated Gasoline Fire Pit. The results of this assessment were presented in a Burke report titled *Final Report on Site Characterization Phase I: Soil Sampling*, dated June 1990.

In 1991, at the RWQCB's request, Burke contracted Target Environmental Services, Inc. (Target) to conduct additional assessment at four locations at the airport: the Former American Drug and Chemical Company, the Former Paint Shop, the Former Civil Air Patrol Fire Pit, and the Former Bunker Simulated Gasoline Fire Pit. The results of this assessment were presented in a Target report titled *Soil Gas Survey,* dated August 1991.

In September 1991, Burke conducted an additional soil boring and sampling program to confirm the soil vapor survey results at three locations at the airport: the Former American Drug and Chemical Company, the Former Civil Air Patrol Fire Pit, and the Former Bunker Simulated Gasoline Fire Pit. The results of this assessment were presented in a Burke report titled *Summary of Results, Soil Gas Surveys and Confirmatory Borings, Burbank-Glendale-Pasadena Airport,* dated October 21, 1991.

Based on the results of these previous assessments, the RWQCB issued a letter dated October 25, 1995, which requested that additional soil vapor data be collected at specific locations to supplement and confirm the above assessment results.

In response to this RWQCB request, Fugro conducted soil vapor surveys at the various sites in December 1995. This report presents the results of the surveys.

Regional Geology and Hydrogeology

The site is located in the southeastern portion of the San Fernando Valley on an alluviated surface that slopes gently south and southeasterly toward the Los Angeles River Narrows. The area is underlain by an estimated 600 feet of Plio-Pleistocene to Holocene age sediments, which rest on Tertiary age sedimentary rocks and igneous and metamorphic basement rocks.

The site is located within the San Fernando Valley ground water basin, the largest of the four ground water basins in the San Fernando Valley. The San Fernando Valley basin is separated from the other three basins (Sylmar, Verdugo, and Eagle Rock ground water basins) by faults and folds in older non-water-bearing rocks. Regional ground water generally moves parallel to the surface drainage patterns, which are from west to east across the San Fernando basin, and then southward through the Los Angeles River Narrows.

Based on a review of various reports prepared for sites around the airport, ground water in the vicinity of the airport has been measured at depths of 205 to 240 feet and flows toward the south-southeast

SITE ASSESSMENT METHODOLOGY

Prefield Activities

Fugro personnel met with Mr. Alex Carlos of the RWQCB on December 11, 1995 to conduct a site visit of the Former American Drug and Chemical Company site and to discuss the additional sample collection locations requested by the RWQCB in their approval letter. On December 14, 1995, all sampling locations were marked and the areas cleared with a magnetometer. Underground Service Alert was also notified.

Soil Vapor Survey Methodology

Hydro Geo Chem, Inc. (HGC) of Huntington Beach, California, conducted the soil vapor survey on December 19 through 22, 1995, under the supervision of a Fugro engineer. The soil vapor survey was conducted in accordance with the RWQCB, WIP *Requirements for Active Soil Gas Investigation* (March 1994). All samples were analyzed for the presence of chemical compounds on the WIP document analyte list, which is a subset of the EPA Methods 8010/8020 analyte list.

Survey Design. Soil vapor samples were collected from the locations and depths specified by the RWQCB and outlined in Table 1 - Sampling Locations. Approximate sampling locations are illustrated on Plates 3 through 8, along with previous sample locations. In addition to the 38 shallow locations specified in the RWQCB's December 11, 1995 approval letter, two additional, deeper samples were collected at selected locations, based on field data.

A site-specific purge volume versus concentration test was conducted at the first sampling point (SV-38). Samples were collected at one, three, and five purge volumes. The concentrations increased as the purge volumes increased. Based on these results and a conversation with Mr. Carlos, five purge volumes were used throughout the survey.

Soil Vapor Sampling Procedures. The samples were collected from soil vapor probes, constructed of 1-3/8-inch, outside-diameter, nickel-plated steel rods tipped with loosely-held hardened-steel disposable points. The probes were advanced to the desired depth using a truck-mounted, hydraulically-actuated drive point rig and then withdrawn 6 inches, exposing the sampling interval. A Geoprobe Vacuum/Volume system was attached to the probes via a stainless-steel adapter. The Geoprobe apparatus consisted of an 11-liter tank equipped with a gauge that is calibrated both in liters and inches of mercury. The tank was evacuated with a

diaphragm pump. A valve between the tank and the probe was opened to allow soil vapor to flow from the probe into the tank.

After purging, the valve was closed and the vacuum in the system was allowed to return to zero (atmospheric pressure). The samples were then collected by withdrawing the soil vapor from the probe using 10-milliliter gas-tight syringes equipped with a built-in on/off valve. After sampling, the syringes were delivered to the onsite mobile laboratory for analysis.

Mobile Laboratory Procedures. The soil vapor samples were analyzed onsite in a mobile laboratory using a Varian 3400 Gas Chromatograph (GC) equipped with a Tracor 703 photoionization detector (PID) with an electrolytic conductivity detector (HALL), and a Varian flame ionization detector (FID) connected in parallel. The results were quantified using Temetrics' computerized Labquest data system.

The soil vapor samples were injected directly into the chromatographic column through an injection port. The individual analytes present in the soil vapor were separated as they were drawn through the column by laboratory-grade carrier gas. As each analyte exited the column and passed through the detectors, an electronic signal, proportional to the quantity of the component, was sent to the Labquest data system, which produced a plot of the detector response versus time (i.e., a chromatogram of the soil vapor sample).

Method Detection Limit Determination. The analytical method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured according to a particular analytical method with 99 percent confidence that it is a real concentration with a value above zero. The MDL for the soil vapor analyses of VOCs, using analytical methods similar to EPA Methods 8010/8020, was established before this investigation as 1.0 microgram per liter (µg/l).

Quality Assurance/Quality Control Procedures. Mobile laboratory procedures were conducted in accordance with HGC's sampling and analysis quality assurance/quality control (QA/QC) program. This program includes using strict sampling protocols to protect the integrity of the soil vapor samples, observing calibration procedures to ensure that valid data are obtained, and analysis of quality control (QC) samples to check sampling procedures and instrument precision.

All parts of the collection system that came in contact with a sample were cleaned before each use and a field blank was analyzed daily. A three- to five-point calibration curve was generated at the initiation of the soil vapor survey. A laboratory quality control sample was run at the beginning of each day to verify the calibration.

Stock standards were prepared from neat reagent-grade compounds. The stock standard was prepared by adding approximately the same masses of each compound of interest to a 40-

milliliter septum-sealed vial. The actual mass added was recorded. An aliquot of the final mixture was weighed to determine the density (weight/volume) of the mixture. For preparation of the vapor-phase standard, a measured volume of the stock standard was injected through a septum into a 6-liter passivated stainless-steel Summa canister while the canister was being filled with helium. The canister pressure was brought up to 30 ±0.3 pounds per square inch (psi) using UHP helium. For calibration and check samples, a measured volume of the standard gas mixture was injected into the appropriate precise-volume sample loop. A switching valve injected the loop contents in the GC for analysis.

Cis-1,3-dichloropropene and 2-chlorofluorobenzene were used as surrogates to monitor the performance of the analytical system. The surrogates were prepared in the same manner as the calibration standard. The surrogates were placed in a 500-microliter sample loop and simultaneously injected with the sample. Surrogate results are reported as percent recovery. Control limits for the surrogate were ±20 percent.

Duplicates from two samples were analyzed as a measure of precision. One trip blank and one field blank were analyzed each day to verify that the samples were not contaminated by sampling procedures.

RESULTS

The results of the soil vapor survey are summarized in Table 2 - Soil Vapor Survey Results. The full soil vapor survey report with QA/QC data is included as Appendix B - Soil Vapor Survey Report.

Soil vapor samples were collected from depths of 5 feet at 38 locations at the six sites. Deeper samples (depths of 15 feet) were collected at two of these locations, based on concentrations detected at 5 feet. One or more of the target VOCs was detected in 15 soil vapor samples collected from five of the six different sites at the airport. The greatest concentration encountered was 11 µg/l of 1,1,1-trichloroethane (1,1,1-TCA) in sample SV-12 at a depth of 5 feet. A sample collected from SV-12 from a depth of 15 feet did not contain detectable concentrations of any of the target VOCs. The remaining 14 samples contained one or more of the VOCs carbon tetrachloride, 1,1,1-TCA, trichloroethylene (TCE), tetrachloroethylene (PCE), toluene, ethylbenzene, m/p-xylenes, and o-xylene at various concentrations less than 10 µg/l.

Carbon tetrachloride, 1,1,1-TCA, TCE, and PCE were all detected during previous surveys, at roughly the same or greater concentrations. Toluene, ethylbenzene, m/p-xylenes, and o-xylene, common petroleum product constituents, were only detected on the "Old Trapper's" Property, which was formerly a gasoline station and has not had a previous soil vapor survey

conducted. No other target VOCs were detected in the soil vapor samples at concentrations greater than the method detection limit of 1.0 µg/l.

Quality Assurance/Quality Control. Four equipment blanks, four trip blanks, and four system blanks were collected. None of these samples contained detectable concentrations of the target VOCs. Duplicate samples were collected for samples SV-5 and SV-38. The duplicate samples showed good agreement.

CONCLUSIONS AND RECOMMENDATIONS

Eight VOCs were detected in soil vapor samples collected from 38 probe locations at the six sites assessed at concentrations up to 11 µg/l. Based on the low concentrations detected, Fugro does not believe additional assessment is warranted and recommends "no further action" at these sites.

LIMITATIONS

This report has been prepared for the Burbank-Glendale-Pasadena Airport Authority as a field assessment of subsurface conditions in specific areas at the Burbank-Glendale-Pasadena Airport, located in Burbank, California. In performing our professional services, we have attempted to apply current engineering and scientific judgment and use a level of effort consistent with the standard of practice measured on the date of this report and in the locale of the project site for similar studies. Fugro West, Inc. makes no warranty concerning any of the materials or services furnished.

The analyses and interpretations in this report have been developed based on the results of a limited soil vapor survey. It should be recognized that subsurface conditions can vary laterally and with depth below a given site and that the evaluation contained herein is based solely on sampling results at the sample locations identified.

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Table 1. Sampling Locations

Location	Location I.D.	No. of Probes	Sampling Depth (feet below grade)
1. Old Trapper's Property	SV-1 through SV-4	4	5
2. Former American Drug and Chemical Company	SV-5 through SV-12, SV-29	10	5, SV-12 also at 15
3. Former Paint Shop Area	SV-13 and SV-14, SV-30	3	5
4. Former Bo Jamison Company Wash Rack	SV-15 through SV-24	10	5
5. Former Civil Air Patrol Fire Pit	SV-25 and SV-26, SV-31 through SV-35	8	5, SV-35 also at 15
6. Former Bunker Simulated Gasoline Fire Pit	SV-27 and SV-28, SV-36 through SV-38	5	5

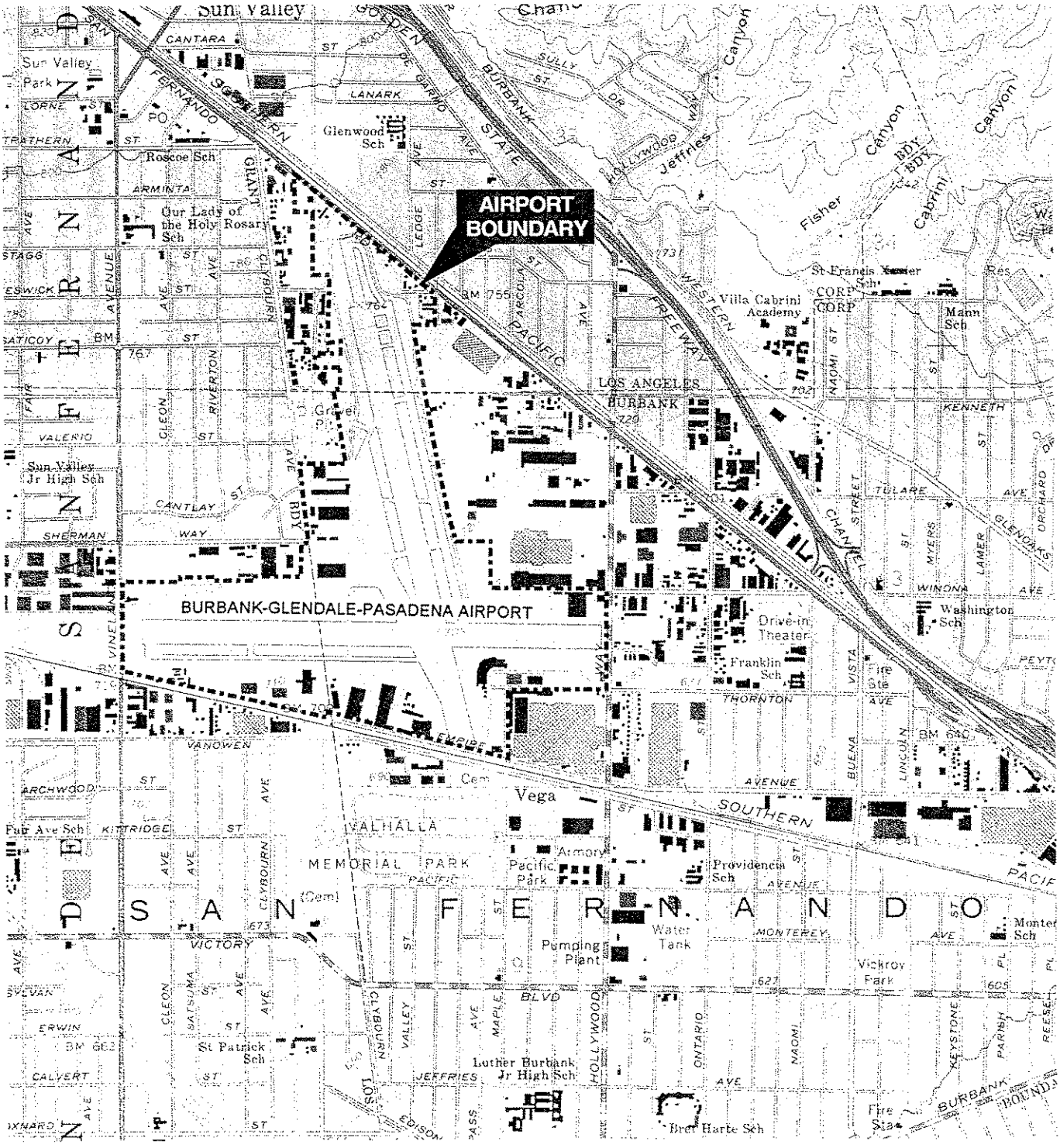
Table 2. Soil Vapor Survey Results

Volatile Organic Compounds (VOCs) using EPA Methods 8010/8020, modified
Results in micrograms per liter (µg/l)

Sample No.	Depth (feet)	Carbon Tetrachloride	1,1,1-TCA	TCE	PCE	Toluene	Ethyl-benzene	m/p-Xylenes	o-Xylene
SV-1	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-2	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-3	5	ND	ND	1.4	1.2	1.4	2.7	4.8	2.7
SV-4	5	ND	ND	1.2	ND	1.5	3.7	5.6	2.8
SV-5	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-6	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-7	5	ND	2.1	ND	ND	ND	ND	ND	ND
SV-8	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-9	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-10	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-11	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-12	5	ND	11	ND	ND	ND	ND	ND	ND
SV-12	15	ND	ND	ND	ND	ND	ND	ND	ND
SV-13	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-14	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-15	5	ND	ND	1	ND	ND	ND	ND	ND
SV-16	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-17	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-18	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-19	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-20	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-21	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-22	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-23	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-24	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-25	5	4	ND	ND	ND	ND	ND	ND	ND
SV-26	5	1.8	ND	ND	ND	ND	ND	ND	ND
SV-27	5	ND	ND	1.2	1.7	ND	ND	ND	ND
SV-28a	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-28b	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-29	5	ND	1	ND	ND	ND	ND	ND	ND

Sample No.	Depth (feet)	Carbon Tetrachloride	1,1,1-TCA	TCE	PCE	Toluene	Ethyl-benzene	m/p-Xylenes	o-Xylene
SV-30	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-31	5	1	ND	ND	ND	ND	ND	ND	ND
SV-32	5	4	ND	ND	ND	ND	ND	ND	ND
SV-33	5	1	ND	ND	ND	ND	ND	ND	ND
SV-34	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-35	5	3.7	ND	ND	ND	ND	ND	ND	ND
SV-35	15	ND	ND	ND	ND	ND	ND	ND	ND
SV-36	5	ND	ND	ND	ND	ND	ND	ND	ND
SV-37	5	ND	ND	1.8	1.2	ND	ND	ND	ND
SV-38a	5	ND	ND	1.56	2.1	ND	ND	ND	ND
SV-38b	5	ND	ND	3.2	2.9	ND	ND	ND	ND
SV-38c	5	ND	ND	4	3.4	ND	ND	ND	ND

1,1,1-TCA 1,1,1-trichloroethane
TCE Trichloroethylene
PCE Tetrachloroethylene
ND Not detected
Concentrations of all target compounds not reported were below detection limits



BASE MAP: USGS 7.5' Quadrangle, Burbank, California (photorevised 1972)

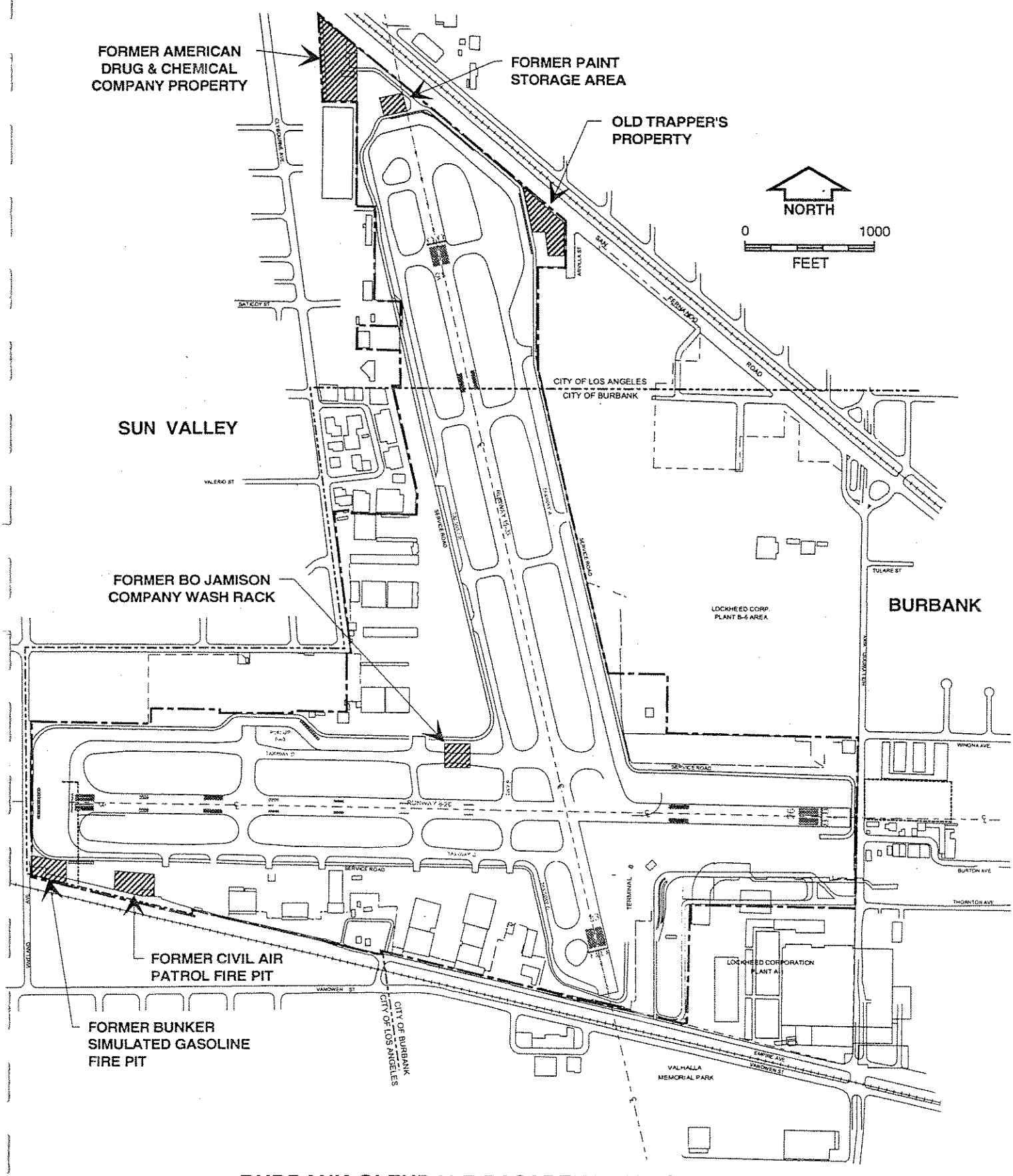
NORTH

0 1000 2000
FEET

SITE VICINITY MAP

Burbank-Glendale-Pasadena Airport
Burbank, California

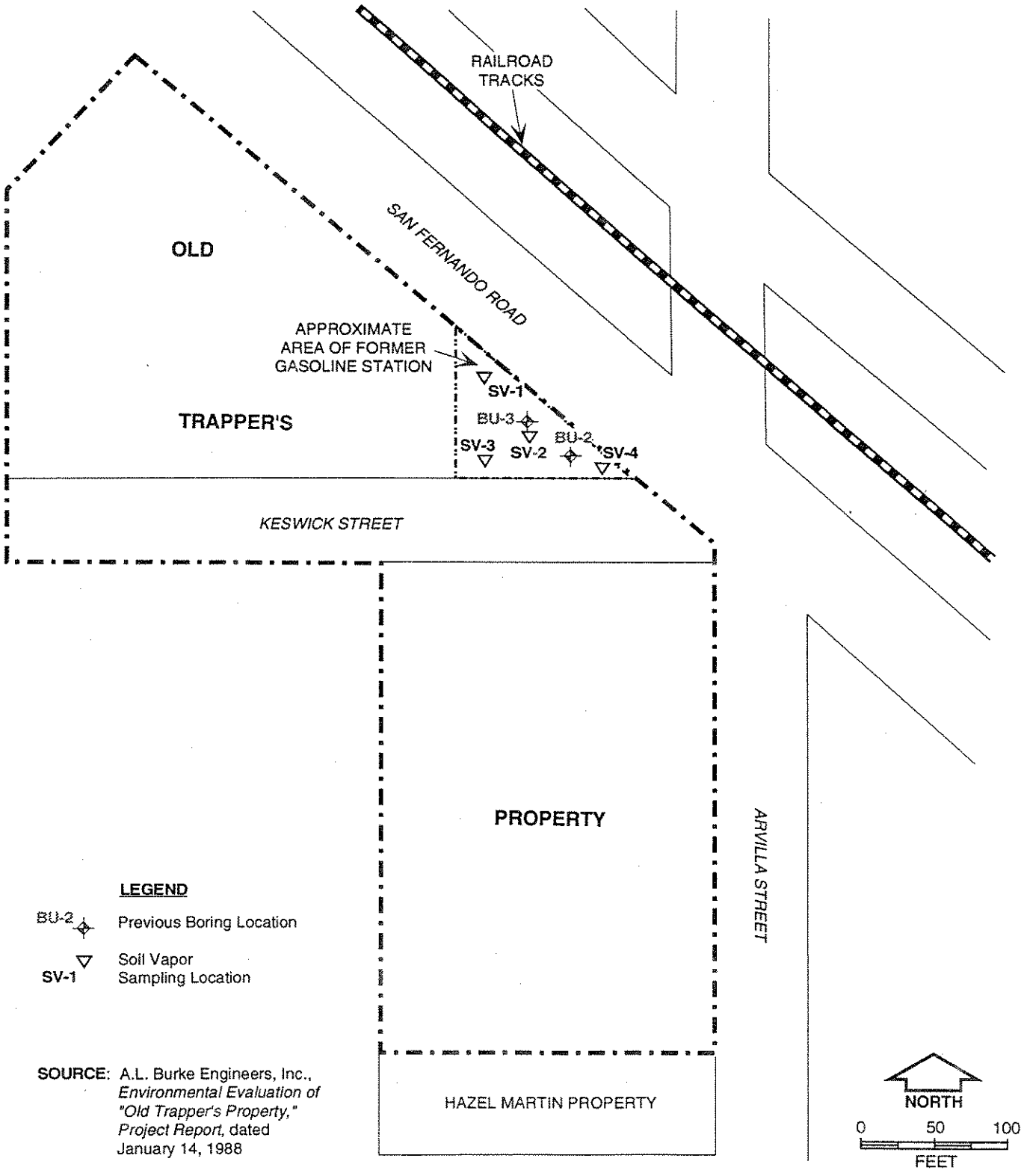
PLATE 1



BURBANK-GLENDALE-PASADENA AIRPORT PLAN

Burbank, California

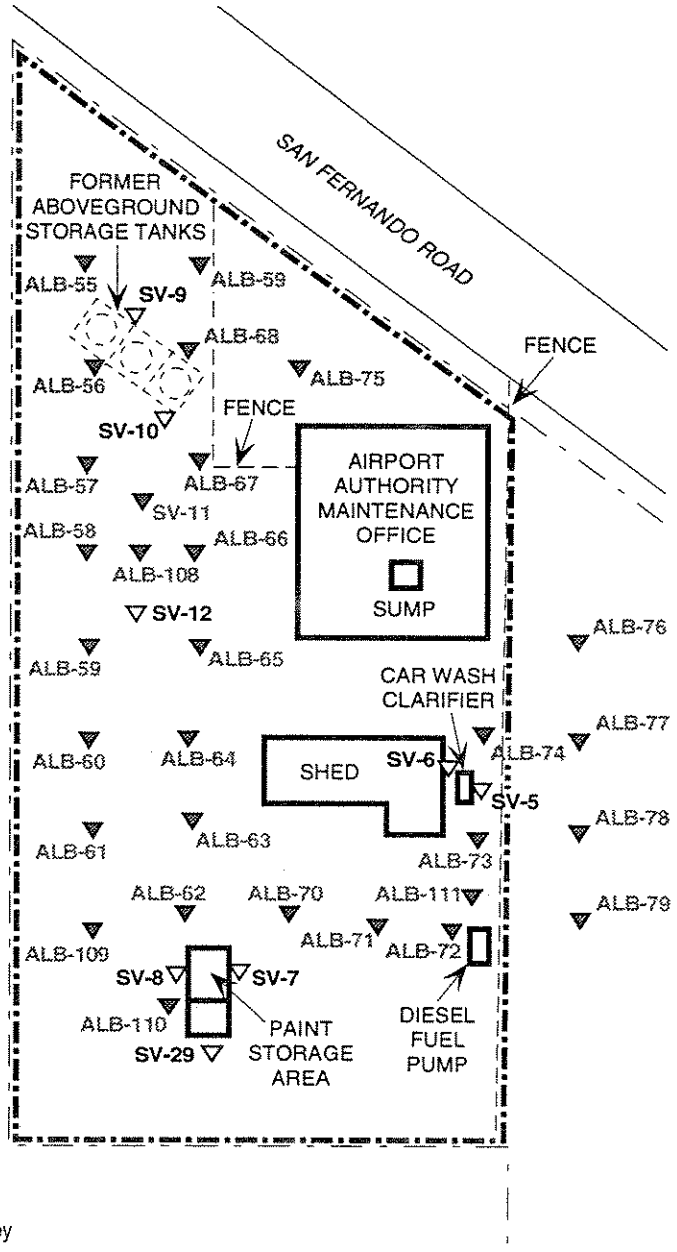
PLATE 3



SOURCE: A.L. Burke Engineers, Inc., *Environmental Evaluation of "Old Trapper's Property," Project Report*, dated January 14, 1988

SOIL VAPOR SURVEY LOCATIONS
Old Trapper's Property
Burbank-Glendale-Pasadena Airport
Burbank, California

PLATE 3



LEGEND

ALB-55 ▼ Previous Soil Vapor Survey Sampling Location

SV-5 ▽ Soil Vapor Sampling Location

NORTH

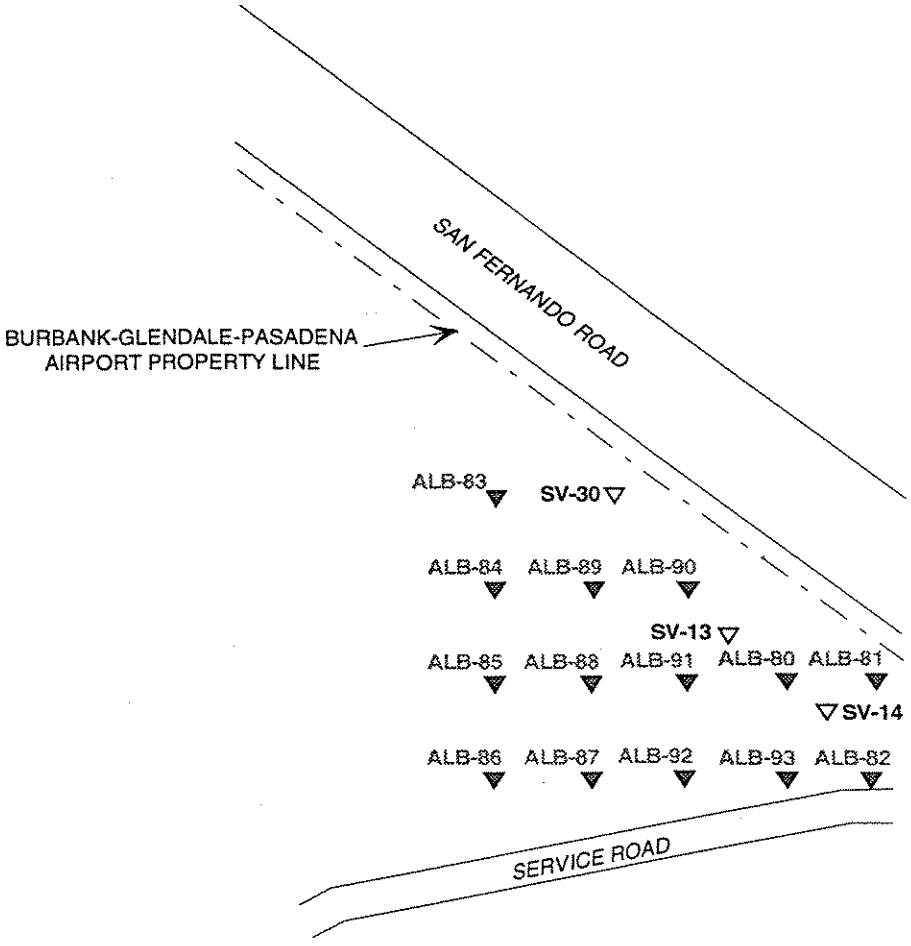
0 50 100
FEET

SOURCE: Target Environmental Services, Inc., *Soil Gas Survey, Burbank-Glendale-Pasadena Airport, Burbank, California*, dated August 1991

SOIL VAPOR SURVEY LOCATIONS

Former American Drug and Chemical Company
Burbank-Glendale-Pasadena Airport
Burbank, California

PLATE 4

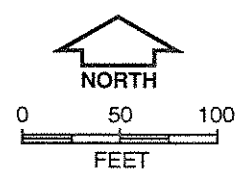


LEGEND

ALB-83 ▼ Previous Soil Vapor Survey Sampling Location

SV-13 ▽ Soil Vapor Sampling Location

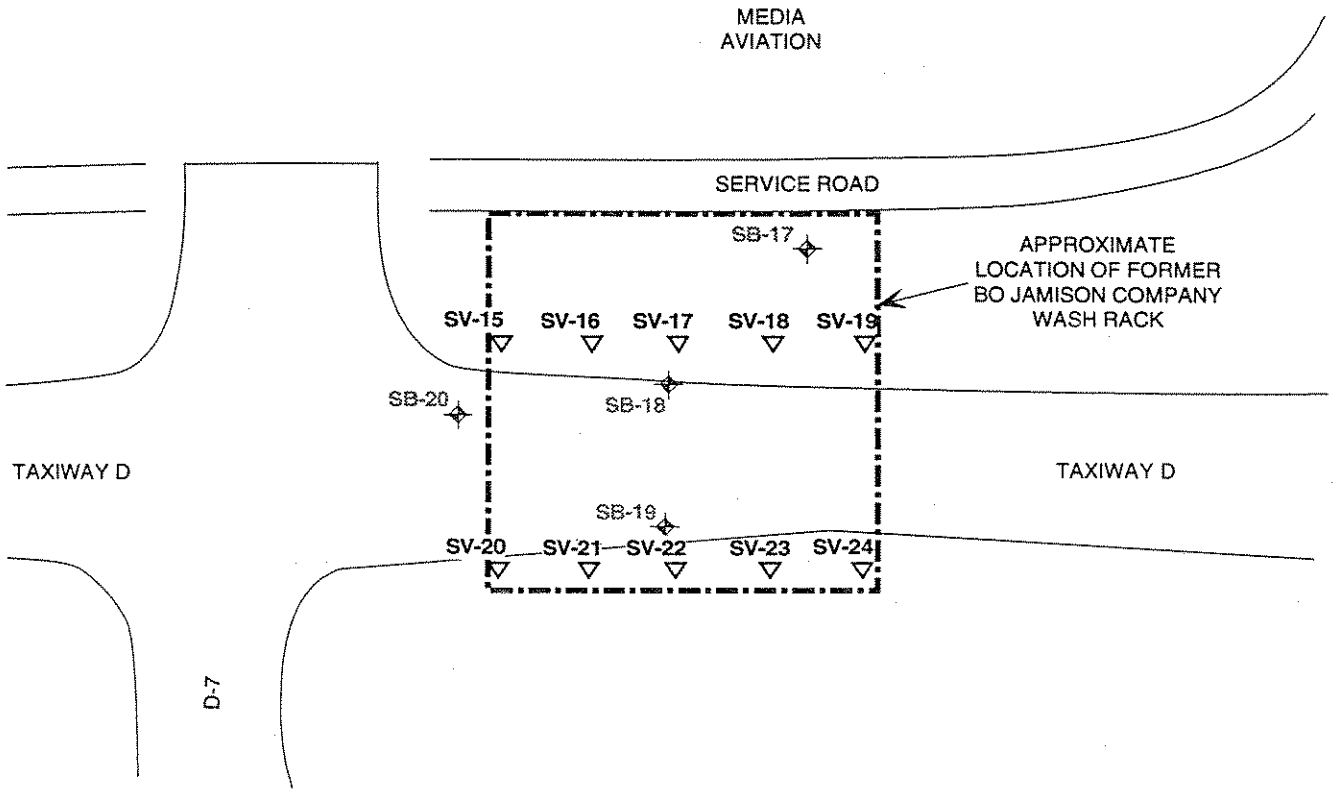
SOURCE: Target Environmental Services, Inc., *Soil Gas Survey, Burbank-Glendale-Pasadena Airport, Burbank, California,* dated August 1991



SOIL VAPOR SURVEY LOCATIONS
Former Paint Shop
Burbank-Glendale-Pasadena Airport
Burbank, California

PLATE 5

95361101SOIL.DS4(2,3)P3



LEGEND

SB-17 Previous Boring Location

SV-15 Soil Vapor Sampling Location

SOURCE: A.L. Burke Engineers, Inc., *Final Report on Site Characterization Phase I: Soil Sampling, Burbank-Glendale-Pasadena Airport Authority, Burbank, California,* dated June 1990

NORTH

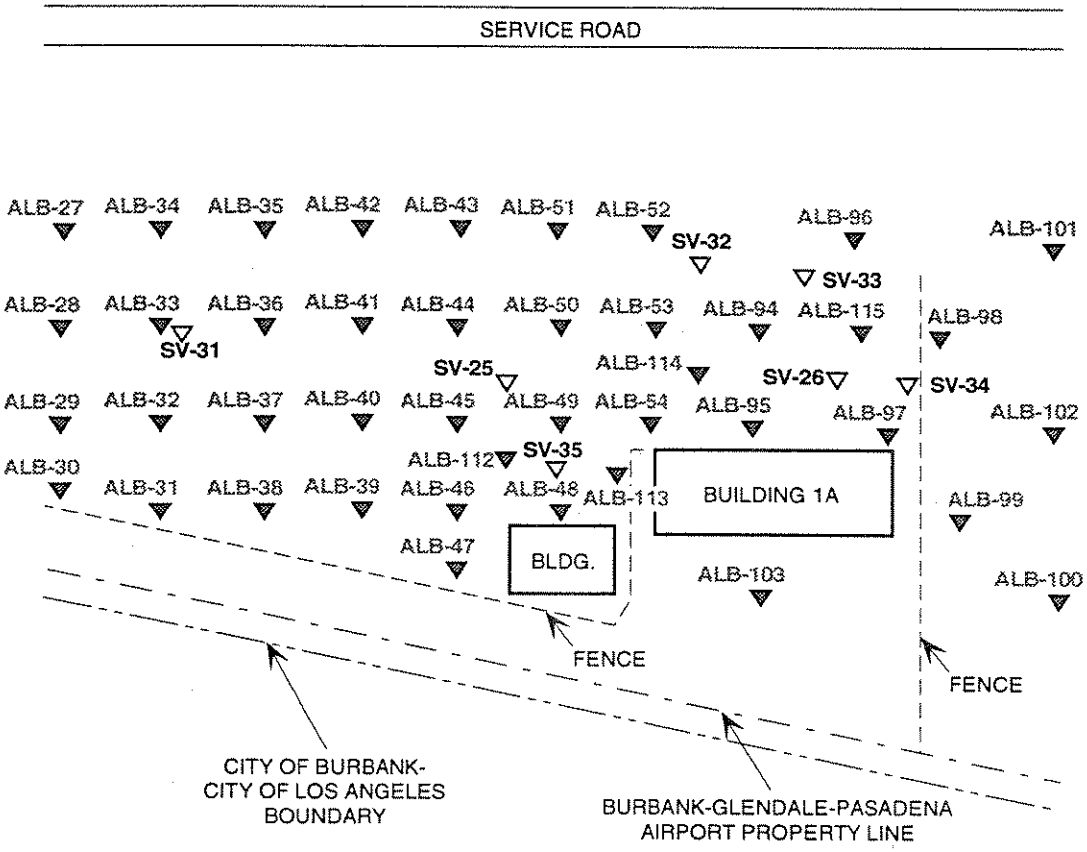
0 50 100

FEET

9536\1101SOIL.DS4(2,3)P6

SOIL VAPOR SURVEY LOCATIONS
Former Bo Jamison Company Wash Rack
Burbank-Glendale-Pasadena Airport
Burbank, California

PLATE 6



LEGEND

ALB-27 — Previous Soil Vapor Survey Sampling Location

SV-25 — Soil Vapor Sampling Location

NORTH

0 50 100
FEET

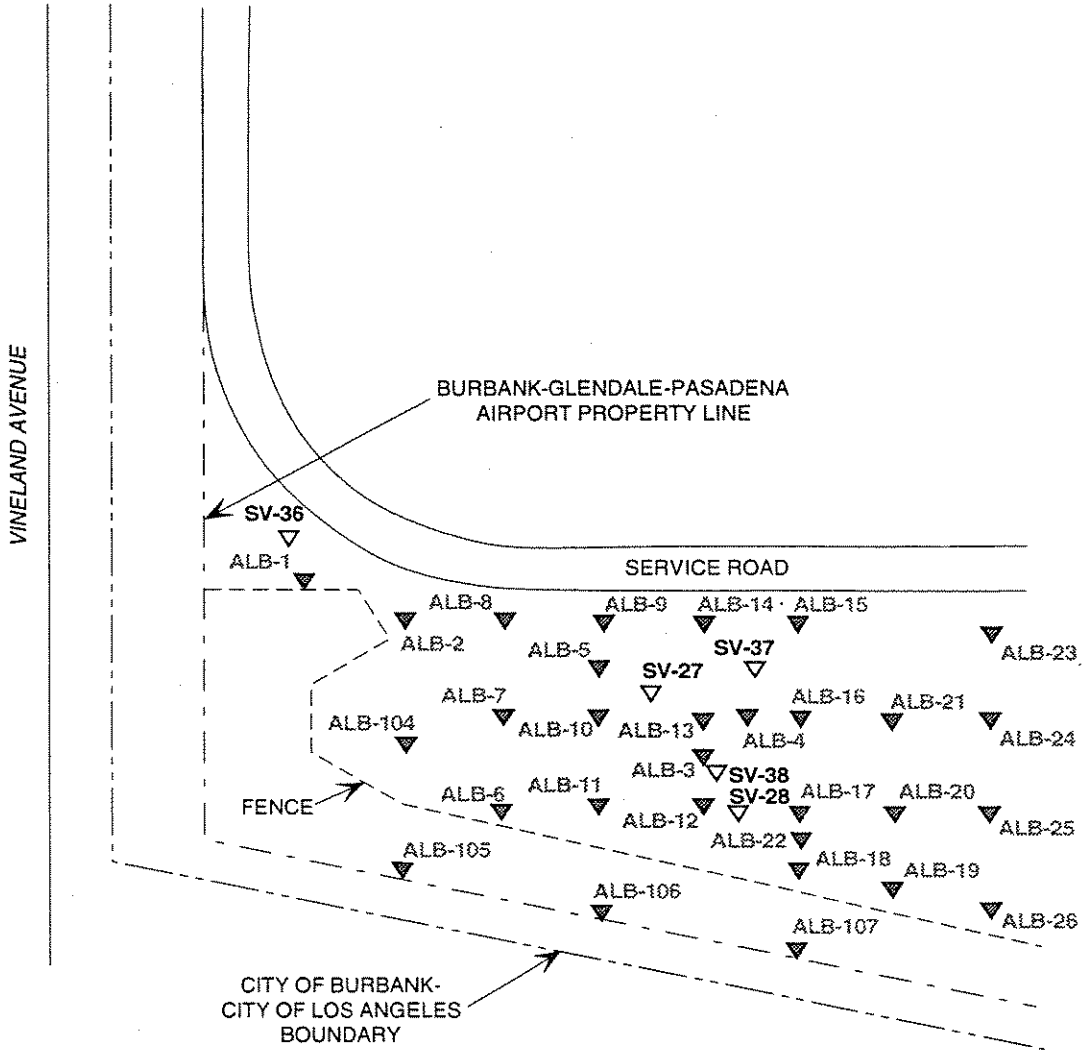
SOURCE: Target Environmental Services, Inc., *Soil Gas Survey, Burbank-Glendale-Pasadena Airport, Burbank, California,* dated August 1991

95361101SOILOS4(2,3).P7

SOIL VAPOR SURVEY LOCATIONS

Former Civil Air Patrol Fire Pit
Burbank-Glendale-Pasadena Airport
Burbank, California

PLATE 7



LEGEND

ALB-1 — Previous Soil Vapor Survey Sampling Location

SV-27 — Soil Vapor Sampling Location

NORTH

0 50 100
FEET

SOURCE: Target Environmental Services, Inc., *Soil Gas Survey, Burbank-Glendale-Pasadena Airport, Burbank, California*, dated August 1991

SOIL VAPOR SURVEY LOCATIONS

Former Bunker Simulated Gasoline Fire Pit
Burbank-Glendale-Pasadena Airport
Burbank, California

PLATE 8

9536.1101SOIL.DS4(2,3).P8

APPENDIX A
RWQCB CORRESPONDENCE

STATE OF CALIFORNIA · CALIFORNIA ENVIRONMENTAL PR... TION AGENCY PETE WILSON Govern

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600

December 11, 1995

Mr. Dan Feger
Burbank-Glendale-Pasadena Airport Authority
2627 Hollywood Way
Burbank, CA 91505

SOIL GAS INVESTIGATION WORK PLAN APPROVAL (File No. 104.1685)

We have reviewed Fugro West, Inc.'s November 28, 1995, work plan for conducting a soil gas investigation at various locations at the Burbank-Glendale-Pasadena Airport

Based on our review, Fugro may implement the work plan. However, we request that you add ten sampling points in the initial sample array (5 feet bgs) and relocate four proposed sampling locations based on the previous soil gas survey results (see attachedTable).

Three copies of the final report for this investigation are due by**January 31, 1995**. Please contact Alex Carlos at (213) 266-7583 if you have any questions

HUBERT H. KANG
Senior Water Resource
Control Engineer

HHK:apc

cc: David Seter, U.S. EPA, Region IX
Mel Blevins, ULARA Watermaster
Alison Canning, Fugro West, Inc.

Post-it™ Fax Note 7671	Date	# of pages ▶ 2
To ALISON CANNING	From A. CARLOS	
Co./Dept. FUGRO	Co. RWQCB	
Phone #	Phone # 213-266-7583	
Fax # 818-546-2091	Fax #	

Soil Gas Sampling Program, Burbank-Glendale-Pasadena Airport (File No. 104.1685)
Additional and Relocated Sampling Locations

AREA	PROPOSED SOIL GAS PT	ADDITIONAL SOIL GAS PT	COMMENTS
Former Bunker Simulated Gasoline Fire Pit		one point near soil boring SB14.	This the only soil boring with VOCs 100 ug/kg TCE @ 20 feet bgs in SB14
		one point near ALB-3	highest concentration of PCE and TCE identified in ALB-3 vapor samples
		one point north of ALB-4, east of SV-27	
	SV-28		relocate SV-28 between SLB-12 and ALB-17
Former Civil Air Patrol Fire Pit		one point north of ALB-48, west of ALB-113	
		one point between ALB-97 and ALB-98	
		one point between ALB-94 and ALB-96	
		one point between ALB-52 and ALB-94	
		one point near ALB-33	no results for ALB-33, ALB-28 and ALB-36
Former American Drug	SV-12		relocate 25 feet south of ALB-108
		one point on south side of paint storage area, southeast of ALB-110	
Former Paint Storage Area	SV-13		relocate between ALB-80 and ALB-90
	SV-14		relocate between ALB-80 and ALB-82
		one point approx. 50 ft northwest of ALB-90	

APPENDIX B
SOIL VAPOR SURVEY REPORT

SOIL GAS SURVEY
OF
BURBANK/GLENDALE/PASADENA AIRPORT
BURBANK, CALIFORNIA

Prepared for:

Fugro West, Inc.
315 Arden Avenue, Suite 24
Glendale, CA 91203

Prepared by:

HYDRO GEO CHEM, INC.
5932 E. Bolsa Ave, Unit 103
Huntington Beach, California 92649-1171

January 12, 1996

HYDRO GEO CHEM, INC.
SOIL GAS DOCUMENT REVIEW SHEET

Project Code: L1265

Client: Fugro West, Inc.

Date: January 12, 1996

Report Prepared By: Pat Schumann Date: 1-19-96
Patricia A. Schumann, Chemist
Hydro Geo Chem, Inc.

Analytical Results Reviewed By: Rebecca Sloan Date: 1/19/96
Rebecca Sloan, MS
Hydro Geo Chem, Inc.

HGC Approval: Harold W. Bentley Date: Jan 19, 1996
Harold W. Bentley, PhD
President, Hydro Geo Chem, Inc.

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INTRODUCTION

This report presents the methods and results of a soil gas investigation for volatile organic compounds performed December 19 - 22, 1995 at the Burbank/Glendale/Pasadena Airport located in Burbank, California. The investigation, conducted by Hydro Geo Chem under contract to Fugro West, Inc. was designed to evaluate the sub-surface distribution of volatile compounds at the site.

BACKGROUND & THEORY

Soil gas surveys consist of the sampling and analysis of the soil gases that reside in the pore space of the unsaturated zone above the water table. Because many common organic compounds and industrial solvents exhibit significant vapor pressures and are relatively insoluble in water, their introduction into subsurface soils results in vapor phase permeation and transport. Should these chemicals reach the water table and travel with the groundwater, vapors will continue to emanate from the contaminated groundwater into overlying soil. Thus, organic contamination of the subsurface and, possibly, of groundwater can be detected by measuring the concentration of volatile organics in the soil gas.

The concentration of a volatile organic compound (VOC) in soil gas is a complex function of the distribution of the organic compound and its interaction with the soil. This interaction depends on a number of soil parameters including the soil's natural and anthropogenic organic content, soil moisture, soil particle size and mineralogy, temperature, lithology, and heterogeneity.

Whatever the source of the VOC contamination in soil gas, its concentration is representative of soils contamination at the point of measurement. Volatile organic contaminants are present in the gas phase in unsaturated pore spaces, in the water contained in the unsaturated soils, and are adsorbed on the soil particles. The total soils concentration is the sum of the VOCs contained in the three phases. The partitioning of the VOC between gas, liquid and solid phases depends on both the soil properties and the chemical properties of the organic compound. Within the soil volume interrogated by soil gas sampling, typically less than one cubic foot, equilibrium between the three phases is rapidly attained. Thus, given the chemical properties of the VOC and measurements or reasonable estimates of relevant soil parameters, soil-gas data can be used to calculate semi-quantitative estimates of soil contamination.

The following equation relates soil gas concentrations to total soil concentrations.

$$\frac{C_g}{C_T} = \left[\frac{K_D \rho_b}{H_D} + \frac{\theta_w}{H_D} + (\theta_T - \theta_w)\right]^{-1}$$

Where C_g is the concentration in the gas [M/V air]
C_T is the concentration in the soil [M/V bulk volume soil]
K_D is the water-solid distribution coefficient [M/M solid/M/V water]
ρ_b is the bulk soil density [M/V solid]
H_D is the gas-water distribution coefficient [M/V air/M/V water]
θ_w is the water filled porosity
θ_T is the total porosity

The gas-water distribution coefficient (dimensionless Henry's law constant) is

$$H_D = C_g/C_w = H/RT \approx \rho_g/S$$

where ρ_g is the saturated vapor density [M/V]
S is the solubility [M/V].
H is the Henry's coefficient
R is the gas constant
and T is the temperature in degrees Kelvin

The water-solid distribution coefficient is approximately given by

$$K_D = \frac{C_s}{C_w} \approx \frac{K_{oc} \cdot \%OC}{100}$$

where C_S is the concentration in the solid (mg/gm)
C_w is the concentration in the water (mg/mL)
K_{OC} is the water-organic carbon distribution coefficient
and %OC is the percent organic carbon in the soil

The major uncertainties in estimating soil concentration from soil gas concentration data are the organic and moisture content of the soils. Chemical properties of particular organic compounds are well known, (i.e., vapor pressure, solubility), and the other relevant soil parameters (i.e., bulk density, porosity) have relatively little effect on soil concentration estimates. Use of soil gas to infer concentrations of sources at distance (such as groundwater plumes) is necessarily much more qualitative. Soil gas data used in this manner are limited by the lack of information

regarding the soil parameters interposed between the source and sampling point. Therefore, quantitative estimates of groundwater concentrations can generally not be obtained from soil gas data collected at distance from the saturated interface.

Away from source areas (i.e., underground storage tanks, surface spills, etc.) where only the groundwater is providing a significant soil gas concentration, soil gas can be an excellent relative indicator of groundwater contamination. The effectiveness of soil gas surveys to delineate groundwater contamination depends, however, on the depth to groundwater, contaminant concentration in the groundwater, distribution of air permeabilities in the unsaturated zone, and attenuation of the volatile organic by biodegradation or adsorption.

SCOPE OF WORK

A total of forty samples were collected and analyzed. Soil gas sampling locations were selected by a representative of Fugro West, Inc. Soil gas samples were collected from thirty eight locations at depths of 5 feet below land surface (bls). Two samples were collected at 15 feet bls to evaluate the vertical distribution of contaminants.

Samples were analyzed for the volatile compounds listed in Table 1.

Table 1
Target Analytes

dichlorodifluoromethane (FR12)	1.1.2 trichloroethane
vinyl chloride	tetrachloroethene
chloroethane	1,1,1,2 tetrachloroethane
trichlorofluoromethane (FR11)	1,1,2,2 tetrachloroethane
dichloromethane	1,1 dichloroethene
trans-1,2-dichloroethene	benzene
1,1 dichloroethane	toluene
cis-1,2-dichloroethene	ethyl benzene
chloroform	m-xylene
1,1,1 trichloroethane	p-xylene
carbon tetrachloride	o-xylene

1,2 dichloroethane	1,1,2 trichloro-1,2,2 trifluoroethane (FR113)
trichloroethene	

SAMPLING

Sample Collection

Soil gas probes consist of 1 3/8" OD, nickel plated EW drill rod tipped by a loosely held hardened-steel disposable point. At each location a probe was driven to target depth using a truck-mounted hydraulically-actuated drive point rig. The probe was then pulled up 6 inches to expose the sampling interval. A Dart® Sampler was lowered down the probe via 1/4" polyethylene tubing to mate with the drive point. A Geoprobe Vacuum/Volume system was attached to the tubing at land surface via a stainless steel septum fitting. The Geoprobe apparatus consists of eleven-liter tank equipped with a gauge that is calibrated both in liters and inches of mercury.

The sampling procedure was as follows: The tank was first evacuated with a diaphragm pump. A valve between the tank and the septum fitting was opened to allow vapor to flow from the probe into the tank. At the first sampling location, SV-38-5, a purge volume vs. concentration test was performed. Samples were collected from the same probe after purging 1, 3 and 5 probe volumes. The samples were analyzed to determine which resulted in the highest concentrations. The purging volume which resulted in the highest concentration of contaminants was 5 volumes. All subsequent sampling locations were purged of 5 times the dead volume of the sampling train prior to sample collection. After purging, the valve was closed and the vacuum in the system was allowed to return to zero (atmospheric pressure). The samples were then collected by withdrawing the soil gas from the septum fitting using a ten milliliter Teflon/glass gas-tight syringe equipped with a built-in on/off valve. After sampling, the syringes were delivered to the on-site mobile laboratory for analysis.

Chain of Custody Procedures

Hydro Geo Chem's field data sheets also serve as chain of custody documents. The date and time of sample collection are recorded on this sheet. When the sample is delivered to laboratory the chemists notes the time of sample receipt.

Decontamination Procedures

Prior to sample collection of parts of the sampling system that come in contact with a sample were decontaminated before each use. Sampling probes are decontaminated by washing

with hot water and alconox. Smaller sampling components are cleaned by heating in a convection oven.

ANALYSIS

Gas chromatography was used to identify and measure concentrations of the various compounds.

Sample Injection Procedures

Samples were injected into a stainless steel loop system connected in parallel to the pair of megabore capillary columns. One column, the J&W DB-624, is serially connected to a photoionization detector (PID) and electrolytic conductivity detector (ELCD). The second column, a J&W Scientific DB-1, leads to the flame ionization detector (FID) and is used primarily for secondary confirmation of compounds. When first introduced to the gas chromatograph the sample is split, half going to the PID/ELCD and the other half going to the FID. The FID analysis uses a column with different polarity which results in a chromatogram that is different than that obtained from the PID, thus allowing a confirmatory check of compounds found in the sample. The method that best characterizes the ELCD /PID analysis is EPA Method 8021 (or 8010/8020); the method that best characterizes the FID analysis is modified EPA 8015.

Analytical Equipment

The make and model of the equipment used to perform these on-site analyses included:

Varian 3400 Gas Chromatograph	J.W. Scientific DB 624, 30m Megabore column
Tracor Model 700A ELCD Detector	J.W. Scientific DB-1, 30m Megabore column
Tracor 703 PID Detector	Tremetrics Labquest® Data System
Varian Flame Ionization (FID) Detector	HGC AutoVOC® Injection System

RESULTS

Table 2 presents the measured soil gas concentrations from each sampling location. Concentrations are reported in micrograms per liter (µg/l) of soil gas. Conversion of soil gas concentrations from µg/l (gas) to ppmV can be achieved by the following equation.

$$C_{ppmV} = C_{\mu g/l} \times RT/M_W P$$

Where

C_{ppmV} = soil gas concentration in ppmV

$C_{\mu g/l}$ = soil gas concentration in µg/l (gas)

R = 0.08205 L-Atm/deg-mole
T = °K
M_W = molecular weight in grams
P = pressure in atmospheres

For a volatile organic compound with a molecular weight of 100, a typical value, C_{ppmV} would be approximately 0.25 $C_{\mu g/l}$.

Detection limits were 1.0 micrograms per liter (µg/L) for all target analytes.

QUALITY ASSURANCE/QUALITY CONTROL

Sampling and analysis of VOCs were conducted in accordance with the guidelines set forth in the California Regional Water Quality Control Board - Los Angeles Region (CRWQCB) document titled "Requirements for Active Soil Gas Investigations, March 1994".

Preparation of Gas Standards

Gas standards were prepared as follows: First, a stock standard was prepared from liquid-phase neat reagent-grade compounds. Approximately the same mass of each compound of interest was sequentially added to a 40 ml septum sealed vial. The actual mass added was recorded after each addition. Aliquots of the final mixture were weighed to determine the density (weight/volume) of the mixture. For preparation of the vapor phase standard, a measured volume of the stock standard was injected through a septum into a 6 liter passivated stainless steel Summa canister. Appropriate volumes of compounds that are gases at room temperature were then injected into the canister using a gas-tight syringe. The canister was then filled with laboratory-grade helium and the canister pressure was brought up to a fixed pressure +/- 1% using a precision pressure gauge. Surrogates were prepared in the same manner as the calibration standard.

Calibration Procedures

The calibration data included initial calibration curves, daily mid-point calibrations on days that calibration curve was not generated, and a verification of the calibration(s) with an independently prepared Laboratory Check Standard (LCS). Calibration data that were used to generate the multipoint calibration curves are reported in Table 3.

Calibration Curves

A calibration curve consisting of at least three points is generated at the beginning of the project and on each day that the daily midpoint calibration check does not meet CRWQCB acceptance criteria. The purpose of the calibration curve is threefold: (1) it establishes the appropriate linear relationship between concentration and instrument response so that the area of chromatographic peaks can be converted to concentration, (2) it establishes the retention time of the chromatographic peaks so that specific compounds can be assigned to observed peaks obtained from each column/detector combination, and (3) it establishes that the sensitivity of the instrument lies within acceptable limits.

Multipoint calibration curves were generated on December 19 and 20, 1995. They covered a range of 0.005 - 0.50 µg. These masses are equivalent to concentrations of 5 - 500 µg/L based on a 1 milliliter (ml) injection of soil gas sample. Smaller volume injections can be used, if necessary, to increase the range to 50,000 µg/L.

To generate the calibration curve, the vapor phase standards were injected into appropriate precise volume sample loops. The masses injected and the resultant chromatographic areas were used to calculate the compound-specific response of the detector. The response function (Rf) used by the Labquest data integration program is

$$Rf = \frac{Mass\ of\ compound}{area}$$

The acceptance criteria established by the CRWQCB for calibration curves is that the percent relative standard deviation (%RSD) not to exceed 20% for all compounds except for the light gases Freons 11, 12 and 113, chloroethane and vinyl chloride, whose %RSD values must not exceed 30%. Calibration curves used to determine the concentrations of target analytes on this project met this specified criterion.

Daily Midpoint Calibration Check

The CRWQCB requires that a calibration check sample be analyzed on days when a calibration curve is not generated. The concentration of the check sample should be at the midpoint of the previously established calibration curve. Midpoint calibration checks were analyzed on December 21 and 22, 1995. The CRWQCB approved criterion for determining the

acceptability of the calibration check sample is ± 15% of the average initial calibration response function except for Freons 11, 12, and 113, chloroethane and vinyl chloride which may be ± 25% of the initial response function. The daily calibration checks met this criterion for all compounds. Daily calibration check data are in Table 4.

Laboratory Check Standard (LCS)

After the analysis of either an initial calibration curve or midpoint calibration check, a laboratory check standard must be analyzed. The purpose of this sample is to verify the concentrations of the standards used to generate the calibration data. It is important to note that standard verification is the only purpose of this exercise. The issues of sensitivity or precision of the sample analyses are determined by the initial or daily calibration. The CRWQCB guidelines require that the response functions of this LCS sample be within 15% of those obtained from the initial or daily midpoint calibration. The response function of Freon 11,12, and 113, chloroethane, and vinyl chloride must be within 25%. The LCS data are presented in Table 5.

The results of the LCS samples analyzed on December 19 and 20 met the CRWQCB specifications. On December 21 the results for 1,1 dichloroethene and ethyl benzene exceeded CRWQCB specifications on the primary detector. However, the compounds did meet calibration and LCS requirements on the alternate detectors. Because neither of these compounds was detected in any sample on this day no data were compromised. Four compounds exceeded the LCS acceptance criteria on December 22. The compounds were 1,1 dichloroethene, chloroform, benzene and ethyl benzene on the primary detector. Again these compounds did met all calibration and LCS criteria on the alternate detector. Of these compounds only ethyl benzene was detected in samples collected on this day and its results were reported from the alternate detector (FID).

End of the Day LCS Sample Analysis

As is discussed in the next section, Hydro Geo Chem does not analyze a LCS sample as the last run of the day because our procedures include the quantitative use of surrogates.

Surrogates

Surrogates were added to each VOC sample including blanks and equipment checks, to monitor the performance of the analytical system. The surrogate compounds were selected for detectability by each of the three detectors employed. The compounds used as surrogates were cis-1,3-dichloropropene and 2-chlorofluorobenzene.

The gas phase surrogates were injected into a 500 microliter (µl) sample loop, then, by computerized switching of the valve, simultaneously injected with the sample into the gas chromatograph. Therefore the surrogate data are quantitative and their recovery can be used to evaluate instrument response. The surrogate recovery acceptance criterion was 100 ± 20%. This acceptance criterion is approved as a replacement for and preferred to the use of an LCS check at the end of the sampling day by CRWQCB staff (Hiam Tan, CRWQCB QA/QC Director). The advantage of using a surrogate in this manner is that a judgement can be made immediately after each analysis as to whether the instrument was operating in an acceptable manner for that analysis. Should an LCS check at the end of the day be utilized, it does not address whether the instrument was in control at the time any sample was analyzed. Moreover, a greater variation than 20% (30% for the light gaseous compounds) of the end-of-day LCS from the expected response function means that all previous data collected that day are suspect. Surrogate results are reported as percent recovery in Table 2. In cases where a surrogate recovery falls outside the control limits it is permissible to use an alternate detector to report results, provide the compounds meets all required calibration and LCS specifications. On December 22 the surrogate recoveries on the PID detector were outside control limits and results for all detected nonchlorinated aromatic compounds were reported from the FID detector.

Duplicates

Samples were analyzed in duplicate as a measure of precision. Duplicates are designated on Table 2 with a lower case -a and -b following the sample name.

Blanks

System blanks were analyzed each day by injecting a 1 ml aliquot of UHP nitrogen into the AutoVOC ®. An analysis showing the system blank to be VOC free demonstrate that the analytical system is not contaminated. System blanks are designate in Table 2 by the prefix SB followed by the date of analysis. Trip blanks were also analyzed at the end of each day to monitor the affect of sample storage and handling on the sample integrity. Trip blanks are designed with a prefix of TB followed by the date of analysis. Trip blanks and/or field blanks serve equally well as system blanks if the analysis detects no VOCs. The field blank results are also reported in Table 2 with a prefix of FB followed by the date collected.

APPENDIX A
CHROMATOGRAMS AND FIELD DATA SHEETS

Table 2
Summary of Analytical Results

Sample ID :		FB20DEC95	FB21DEC95	FB22DEC95	SB19DEC95	SB20DEC95	SB21DEC95	SB22DEC95	SV-01-5*
Date Collected :		12-20-95	12-21-95	12-22-95	NA	12-20-95	12-21-95	12-22-95	12-22-95
Time Collected :		10:35	8:29	7:48	NA	NA	NA	NA	12:34
Date Analyzed :		12-20-95	12-21-95	12-22-95	12-19-95	12-20-95	12-21-95	12-22-95	12-22-95
Time Analyzed :		10:36	8:35	7:46	14:25	7:44	7:03	8:14	12:50
Depth (ft) :		NA	5	NA	NA	NA	NA	5	5
Volume Analyzed (ml) :		1	1	1	1	1	1	1	1
Compound Name	***Detector***								
Dichlorodifluoromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2 Tetrachloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2 Tetrachloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	PID	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	PID	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	PID	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl Benzene	PID	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene	PID	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	FID	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	FID	<1	<1	<1	<1	<1	<1	<1	<1
% C13DCPE Recovery	ELCD	80	91	97	94	105	93	100	98
% 13CFB Recovery	ELCD	80	87	92	93	98	89	93	90
% C13DCPE Recovery	PID	96	89	80	96	93	82	81	76
% 13CFB Recovery	PID	95	90	80	96	94	83	82	76
% C13DCPE Recovery	FID	99	100	102	100	100	100	99	100
% 13CFB Recovery	FID	99	100	101	101	103	102	100	100

Unit of Concentration -- ug/L
NA -- Not Applicable

* Data was not reported from PID due to low surrogates; use HALL or FID to report detected compounds.

BGPAA 0156

Table 2
Summary of Analytical Results

Sample ID :		SV-02-5*	SV-03-5*	SV-04-5*	SV-05-5	SV-06-5	SV-07-5	SV-08-5	SV-09-5	SV-10-5	SV-11-5	SV-12-5
Date Collected :		12-22-95	12-22-95	12-22-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95
Time Collected :		12:11	11:51	11:31	17:10	16:52	14:16	14:32	16:26	15:59	15:31	15:15
Date Analyzed :		12-22-95	12-22-95	12-22-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95
Time Analyzed :		12:27	12:03	11:39	17:40	17:17	14:35	14:59	16:54	16:31	16:08	15:45
Depth (ft) :		5	5	5	5	5	5	5	5	5	5	5
Volume Analyzed (ml) :		1	1	1	1	1	1	1	1	1	1	1
Compound Name	***Detector***											
Dichlorodifluoromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	ELCD	<1	<1	<1	<1	<1	2.1	<1	<1	<1	<1	11
Carbon Tetrachloride	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ELCD	<1	1.4	1.2	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ELCD	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2 Tetrachloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2 Tetrachloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	FID	<1	1.4	1.5	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl Benzene	FID	<1	2.7	3.7	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene	FID	<1	4.8	5.6	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	FID	<1	2.7	2.8	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	FID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
% C13DCPE Recovery	ELCD	97	103	98	92	92	92	96	93	97	95	96
% 13CFB Recovery	ELCD	90	90	90	84	90	91	88	87	89	91	87
% C13DCPE Recovery	PID	78	77	77	81	82	84	84	82	83	84	83
% 13CFB Recovery	PID	79	77	76	81	83	85	85	82	84	85	85
% C13DCPE Recovery	FID	99	100	99	100	101	101	101	101	101	101	101
% 13CFB Recovery	FID	100	104	100	99	100	100	100	101	100	101	101

Unit of Concentration -- ug/L
NA -- Not Applicable

* Data was not reported from PID due to low surrogates; use HALL or FID to report detected compounds.

BGPAA 0157

Table 2
Summary of Analytical Results

Sample ID :		SV-12-15a*	SV-12-15b*	SV-13-5*	SV-14-5	SV-15-5	SV-16-5	SV-17-5	SV-18-5	SV-19-5	SV-20-5	SV-21-5
Date Collected :		12-22-95	12-22-95	12-22-95	12-22-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95
Time Collected :		10:49	10:49	8:56	9:15	13:43	13:20	13:01	12:44	12:05	10:40	10:53
Date Analyzed :		12-22-95	12-22-95	12-22-95	12-22-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95	12-21-95
Time Analyzed :		10:53	11:16	9:05	9:30	14:12	13:50	13:30	12:44	12:34	10:43	11:06
Depth (ft) :		15	15	5	5	5	5	5	5	5	5	5
Volume Analyzed (ml) :		1	1	1	1	1	1	1	1	1	1	1
Compound Name	***Detector***											
Dichlorodifluoromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ELCD	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2 Tetrachloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2 Tetrachloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl Benzene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	FID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	FID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
% C13DCPE Recovery	ELCD	78	88	101	96	87	94	91	87	84	88	104
% 13CFB Recovery	ELCD	81	83	94	100	85	89	89	87	85	87	93
% C13DCPE Recovery	PID	76	76	78	80	83	85	85	85	85	87	887
% 13CFB Recovery	PID	67	72	79	80	84	86	86	86	86	88	89
% C13DCPE Recovery	FID	99	99	99	99	11	100	101	101	100	99	101
% 13CFB Recovery	FID	101	100	101	102	100	100	100	100	100	99	101

Unit of Concentration -- ug/L
NA -- Not Applicable

* Data was not reported from PID due to low surrogates; use HALL or FID to report detected compounds.

BGPAA 0158

Table 2
Summary of Analytical Results

Sample ID :		SV-22-5	SV-23-5	SV-24-5	SV-25-5	SV-26-5	SV-27-5	SV-28-5a	SV-28-5b	SV-29-5	SV-30-5	SV-31-5
Date Collected :		12-21-95	12-21-95	12-21-95	12-20-95	12-21-95	12-20-95	12-20-95	12-20-95	12-21-95	12-22-95	12-20-95
Time Collected :		11:06	11:22	11:46	16:13	9:29	14:55	13:20	13:20	14:56	8:35	15:48
Date Analyzed :		12-21-95	12-21-95	12-21-95	12-20-95	12-21-95	12-20-95	12-20-95	12-20-95	12-21-95	12-22-95	12-20-95
Time Analyzed :		11:29	11:52	12:15	16:21	9:48	14:59	13:25	13:52	15:22	8:41	15:55
Depth (ft) :		5	5	5	5	5	5	5	5	5	5	5
Volume Analyzed (ml) :		1	1	1	1	1	1	1	1	1	1	1
Compound Name	***Detector***											
Dichlorodifluoromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1
Carbon Tetrachloride	ELCD	<1	<1	<1	4	1.8	<1	<1	<1	<1	<1	1
1,2-Dichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ELCD	<1	<1	<1	<1	<1	1.2	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ELCD	<1	<1	<1	<1	<1	1.7	<1	<1	<1	<1	<1
1,1,1,2 Tetrachloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2 Tetrachloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl Benzene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	FID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	FID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
% C13DCPE Recovery	ELCD	96	96	95	93	98	80	81	88	92	97	98
% 13CFB Recovery	ELCD	99	92	93	86	91	83	82	83	88	93	88
% C13DCPE Recovery	PID	87	87	86	91	88	92	93	92	84	80	92
% 13CFB Recovery	PID	88	88	87	92	90	93	93	93	85	81	93
% C13DCPE Recovery	FID	101	100	100	100	101	99	100	99	101	101	101
% 13CFB Recovery	FID	100	100	100	100	100	99	99	99	100	101	101

Unit of Concentration -- ug/L
NA -- Not Applicable

* Data was not reported from PID due to low surrogates; use HALL or FID to report detected compounds.

BGPAA 0159

Table 2
Summary of Analytical Results

Sample ID :		SV-32-5	SV-33-5	SV-34-5	SV-35-5	SV-35-15*	SV-36-5	SV-37-5	SV-38-5A	SV-38-5B	SV-38-5C
Date Collected :		12-20-95	12-21-95	12-21-95	12-20-95	12-22-95	12-20-95	12-20-95	12-20-95	12-20-95	12-20-95
Time Collected :		16:59	9:11	8:55	16:29	10:15	15:22	14:02	11:11	12:17	12:19
Date Analyzed :		12-20-95	12-21-95	12-21-95	12-20-95	12-22-95	12-20-95	12-20-95	12-20-95	12-20-95	12-20-95
Time Analyzed :		17:08	9:25	9:01	16:45	10:17	15:31	14:15	11:16	12:25	12:47
Depth (ft) :		5	5	5	5	15	5	5	5	5	5
Volume Analyzed (ml) :		1	1	1	1	1	1	1	1	1	1
Compound Name	***Detector***										
Dichlorodifluoromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	ELCD	4	1	<1	3.7	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ELCD	<1	<1	<1	<1	<1	<1	1.8	1.56	3.2	4
1,1,2-Trichloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	ELCD	<1	<1	<1	<1	<1	<1	1.2	2.1	2.9	3.4
1,1,1,2 Tetrachloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2 Tetrachloroethane	ELCD	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl Benzene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene	PID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	FID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	FID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
% C13DCPE Recovery	ELCD	96	102	95	94	95	85	86	86	92	88
% 13CFB Recovery	ELCD	94	100	90	92	88	85	83	83	91	87
% C13DCPE Recovery	PID	90	89	89	91	76	92	92	96	96	93
% 13CFB Recovery	PID	92	86	90	91	77	93	93	97	97	93
% C13DCPE Recovery	FID	100	100	101	100	99	100	100	100	100	100
% 13CFB Recovery	FID	100	100	101	100	101	100	100	100	100	99

Unit of Concentration -- ug/L
NA -- Not Applicable

* Data was not reported from PID due to low surrogates; use HALL or FID to report detected compounds.

BGPAA 0160

Table 2
Summary of Analytical Results

Sample ID :		TB20DEC95	TB21DEC95	TB22DEC95*
Date Collected :		12-20-95	12-21-95	12-22-95
Time Collected :		NA	NA	NA
Date Analyzed :		12-20-95	12-21-95	12-22-95
Time Analyzed :		17:33	18:02	13:18
Depth (ft) :		NA	5	NA
Volume Analyzed (ml) :		1	1	1
Compound Name	***Detector***			
Dichlorodifluoromethane	ELCD	<1	<1	<1
Vinyl Chloride	ELCD	<1	<1	<1
Chloroethane	ELCD	<1	<1	<1
Trichlorofluoromethane	ELCD	<1	<1	<1
Dichloromethane	ELCD	<1	<1	<1
trans-1,2-Dichloroethene	ELCD	<1	<1	<1
1,1-Dichloroethane	ELCD	<1	<1	<1
cis-1,2-Dichloroethene	ELCD	<1	<1	<1
Chloroform	ELCD	<1	<1	<1
1,1,1-Trichloroethane	ELCD	<1	<1	<1
Carbon Tetrachloride	ELCD	<1	<1	<1
1,2-Dichloroethane	ELCD	<1	<1	<1
Trichloroethene	ELCD	<1	<1	<1
1,1,2-Trichloroethane	ELCD	<1	<1	<1
Tetrachloroethene	ELCD	<1	<1	<1
1,1,1,2 Tetrachloroethane	ELCD	<1	<1	<1
1,1,2,2 Tetrachloroethane	ELCD	<1	<1	<1
1,1-Dichloroethene	PID	<1	<1	<1
Benzene	PID	<1	<1	<1
Toluene	PID	<1	<1	<1
Ethyl Benzene	PID	<1	<1	<1
m/p-Xylene	PID	<1	<1	<1
o-Xylene	FID	<1	<1	<1
1,1,2-Trichlorotrifluoroethane	FID	<1	<1	<1
% C13DCPE Recovery	ELCD	100	84	93
% 13CFB Recovery	ELCD	90	80	85
% C13DCPE Recovery	PID	90	80	75
% 13CFB Recovery	PID	91	80	70
% C13DCPE Recovery	FID	101	101	99
% 13CFB Recovery	FID	101	99	98

Unit of Concentration -- ug/L
NA -- Not Applicable

* Data was not reported from PID due to low surrogates; use HALL or FID to report detected compounds.

BGPAA 0161

Table 3
Multipoint Calibration Data

HYDRO GEO CHEM, INC
Project: Fugro/Burbank
Project #: L1265
Date Calibrated: December 19, 1995.
Analyst: P. Schumann
Instrument ID#: 3400-4199

CALIBRATION LEVEL				**1**				**2**		
Labquest File number:				**L1265.016**				**L1265.013**		
Time Injected:				**13:02**				**11:54**		
Volume injected(ul):				**50**				**50**		
Standard Used:				**CAL9516-2**				**CAL9516**		
Compound Name	**DETECTOR**	**RT (min)**	**STD CONC (ug)**	**AREA**	**Rf**	**RT (min)**	**STD CONC (ug)**	**AREA**	**Rf**	**RT (min)**
Dichlorodifluoromethane	ELCD	1.59	0.0058	25590	2.267E-07	1.58	0.0253	145610	1.738E-07	1.6
Vinyl Chloride	ELCD	2.08	0.0056	32587	1.718E-07	2.08	0.0254	159445	1.593E-07	2.08
Chloroethane	ELCD	2.78	0.006	32501	1.846E-07	2.78	0.0255	137204	1.859E-07	2.78
Trichlorofluoromethane	ELCD	3.16	0.00514	48246	1.065E-07	3.16	0.0257	295624	8.693E-08	4.54
Dichloromethane	ELCD	4.55	0.00509	45218	1.126E-07	4.55	0.0255	276908	9.209E-08	3.88
1,1-Dichloroethene + F113	ELCD	3.89	0.0102	73416	1.389E-07	3.88	0.0509	457719	1.112E-07	3.88
trans-1,2-Dichloroethene	ELCD	4.88	0.00493	45654	1.08E-07	4.88	0.0247	266412	9.271E-08	4.88
1,1-Dichloroethane	ELCD	5.42	0.00436	35739	1.22E-07	5.43	0.0218	218563	9.974E-08	5.42
cis-1,2-Dichloroethene	ELCD	6.16	0.0051	38782	1.315E-07	6.16	0.0255	234539	1.087E-07	6.17
Chloroform	ELCD	6.6	0.00523	40878	1.279E-07	6.61	0.0262	229604	1.141E-07	6.6
1,1,1-Trichloroethane	ELCD	6.78	0.00524	47592	1.101E-07	6.78	0.0262	267753	9.785E-08	6.78
Carbon Tetrachloride	ELCD	6.98	0.0051	61270	8.324E-08	6.98	0.0255	339566	7.51E-08	6.98
1,2-Dichloroethane	ELCD	7.31	0.00511	56238	9.086E-08	7.32	0.0256	286505	8.935E-08	7.33
Trichloroethene	ELCD	8.16	0.00501	43825	1.143E-07	8.16	0.0251	235069	1.068E-07	8.16
1,1,2-Trichloroethane	ELCD	10.7	0.00505	32667	1.546E-07	10.71	0.0253	168523	1.501E-07	10.7
Tetrachloroethene	ELCD	10.85	0.00503	72972	6.893E-08	10.86	0.0252	312223	8.071E-08	10.85
1112 tetrachloroethane	ELCD	12.43	0.00504	55140	9.14E-08	12.43	0.0252	252900	9.964E-08	12.43
1122 tetrachloroethane	ELCD	14.64	0.00512	37992	1.348E-07	14.65	0.0256	243916	1.05E-07	14.64
1,1-Dichloroethene	PID	3.83	0.00504	9612	5.243E-07	3.83	0.0252	60889	4.139E-07	3.83
Benzene	PID	7.23	0.00519	27706	1.873E-07	7.23	0.026	166650	1.56E-07	7.23
Toluene	PID	9.98	0.00508	24433	2.079E-07	9.99	0.0254	154261	1.647E-07	9.98
Ethyl Benzene	PID	12.44	0.00515	19294	2.669E-07	12.44	0.0258	137004	1.883E-07	12.44
m/p-Xylene	PID	12.64	0.01028	50016	2.055E-07	12.65	0.0514	345975	1.486E-07	12.65
o-Xylene	FID	13.31	0.00514	6582	7.809E-07	13.32	0.0258	40473	6.375E-07	13.33
1,1-Dichloroethene + Dichloromethane	FID	4.97	0.01013	1818	5.572E-06	4.98	0.05065	9575	5.29E-06	4.98
1,1,2,2 tetrachloroethane + ethyl benzene	FID	13.92	0.01027	6508	1.578E-06	13.93	0.05135	35464	1.448E-06	13.93
1,1,2-Trichlorotrifluoroethane	ELCD	5.34	0.00513	826	6.211E-06	5.35	0.0257	4127	6.227E-06	5.35

BGPAA 0162

Table 3
Multipoint Calibration Data

HYDRO GEO CHEM, INC
Project: Fugro/Burbank
Project #: L1265
Date Calibrated: December 19, 1995.
Analyst: P. Schumann
Instrument ID#: 3400-4199

CALIBRATION LEVEL		**3**				**4**					
Labquest File number:		**L1265.014**				**L1265.015**					
Time Injected:		**12:17**				**12:40**					
Volume injected(ul):		**200**				**1000**					
Standard Used:		**CAL9516**				**CAL9516**					
Compound Name	**STD CONC (ug)**	**AREA**	**Rf**	**RT (min)**	**STD CONC (ug)**	**AREA**	**Rf**	**AVE Rf**	**SD**	**RSD**	**Control Limits (%)**
Dichlorodifluoromethane	0.1012	650092	1.557E-07	1.66	0.506	3214521	1.574E-07	1.784E-07	3.32E-08	19	+/- 30
Vinyl Chloride	0.1016	621371	1.635E-07	2.15	0.508	3126889	1.625E-07	1.643E-07	5.352E-09	3	+/- 30
Chloroethane	0.102	617411	1.652E-07	2.82	0.51	2816386	1.811E-07	1.792E-07	9.538E-09	5	+/- 30
Trichlorofluoromethane	0.1028	1203788	8.54E-08	3.2	0.514	5175559	9.931E-08	9.455E-08	1.013E-08	11	+/- 30
Dichloromethane	0.1018	1103966	9.221E-08	4.58	0.509	4415298	1.153E-07	1.03E-07	1.262E-08	12	+/- 20
1,1-Dichloroethene + F113	0.2036	1867056	1.09E-07	3.92	1.018	6841531	1.488E-07	1.27E-07	1.991E-08	16	+/- 20
trans-1,2-Dichloroethene	0.0986	1046683	9.42E-08	4.91	0.493	4306722	1.145E-07	1.023E-07	1.061E-08	10	+/- 20
1,1-Dichloroethane	0.0872	872080	9.999E-08	5.44	0.436	4110178	1.061E-07	1.07E-07	1.045E-08	10	+/- 20
cis-1,2-Dichloroethene	0.102	896776	1.137E-07	6.18	0.51	4303078	1.185E-07	1.181E-07	9.777E-09	8	+/- 20
Chloroform	0.105	958512	1.095E-07	6.62	0.523	4527473	1.155E-07	1.168E-07	7.867E-09	7	+/- 20
1,1,1-Trichloroethane	0.1048	1142718	9.171E-08	6.79	0.524	5031780	1.041E-07	1.01E-07	7.935E-09	8	+/- 20
Carbon Tetrachloride	0.102	1340697	7.608E-08	7	0.51	5732766	8.896E-08	8.084E-08	6.516E-09	8	+/- 20
1,2-Dichloroethane	0.1022	1064846	9.598E-08	7.34	0.511	4835332	1.057E-07	9.547E-08	7.374E-09	8	+/- 20
Trichloroethene	0.1002	1045025	9.588E-08	8.18	0.501	4990343	1.004E-07	1.043E-07	8.013E-09	8	+/- 20
1,1,2-Trichloroethane	0.101	666464	1.515E-07	10.72	0.505	3680732	1.372E-07	1.484E-07	7.673E-09	5	+/- 20
Tetrachloroethene	0.1006	1263085	7.965E-08	10.87	0.503	5587397	9.002E-08	7.983E-08	8.632E-09	11	+/- 20
1112 tetrachloroethane	0.1008	950117	1.061E-07	12.44	0.504	4837092	1.042E-07	1.003E-07	6.539E-09	7	+/- 20
1122 tetrachloroethane	0.1024	966613	1.059E-07	14.64	0.512	4318534	1.186E-07	1.161E-07	1.393E-08	12	+/- 20
1,1-Dichloroethene	0.1008	279035	3.612E-07	3.87	0.504	1471349	3.425E-07	4.105E-07	8.168E-08	20	+/- 20
Benzene	0.1038	701667	1.479E-07	7.25	0.519	3537572	1.467E-07	1.595E-07	1.901E-08	12	+/- 20
Toluene	0.102	645059	1.581E-07	10	0.508	3340440	1.521E-07	1.707E-07	2.534E-08	15	+/- 20
Ethyl Benzene	0.103	563617	1.827E-07	12.45	0.515	2863551	1.798E-07	2.052E-07	4.179E-08	20	+/- 20
m/p-Xylene	0.2056	1384417	1.485E-07	12.64	1.028	5929351	1.734E-07	1.69E-07	2.703E-08	16	+/- 20
o-Xylene	0.103	157949	6.521E-07	13.32	0.515	832257	6.188E-07	6.723E-07	7.367E-08	11	+/- 20
1,1-Dichloroethene + Dichloromethane	0.2062	38837	5.309E-06	5.01	1.031	204498	5.042E-06	5.214E-06	2.167E-07	4	+/- 20
1,1,2,2 tetrachloroethane + ethyl benzene	0.254	138493	1.834E-06	13.93	1.07	726453	1.473E-06	1.585E-06	1.764E-07	11	+/- 20
1,1,2-Trichlorotrifluoroethane	0.1026	17224	5.957E-06	5.38	0.513	90165	5.69E-06	6.021E-06	2.533E-07	4	+/- 30

BGPAA 0163

Table 3
Multipoint Calibration Data

HYDRO GEO CHEM, INC
Project: Fugro/Burbank
Project #: L1265
Date Calibrated: December 20, 1995.
Analyst: P. Schumann
Instrument ID#: 3400-4199

CALIBRATION LEVEL				1				2			
Labquest File number:				L1265.031				L1265.032			
Time Injected:				8:37				9:00			
Volume injected(ul):				50				50			
Standard Used:				CAL9516-2				CAL9516			
Compound Name	DETECTOR	RT (min)	STD CONC (ug)	AREA	Rf	RT (min)	STD CONC (ug)	AREA	Rf	RT (min)	STD CONC (ug)
Dichlorodifluoromethane	ELCD	1.62	0.0058	38395	1.511E-07	1.63	0.0253	191021	1.324E-07	1.59	0.1012
Vinyl Chloride	ELCD	2.13	0.0056	46781	1.197E-07	2.13	0.0254	201630	1.26E-07	2.08	0.1016
Chloroethane	ELCD	2.84	0.006	41422	1.449E-07	2.83	0.0255	185010	1.378E-07	2.77	0.102
Trichlorofluoromethane	ELCD	3.23	0.00514	58727	8.752E-08	3.22	0.0257	389275	6.602E-08	3.15	0.1028
Dichloromethane	ELCD	4.63	0.00509	50454	1.009E-07	4.61	0.0255	*385724*	6.611E-08	4.53	0.1018
1,1-Dichloroethene + F113	ELCD	3.95	0.0102	84917	1.201E-07	3.94	0.0509	*618561*	8.229E-08	3.88	0.2036
trans-1,2-Dichloroethene	ELCD	4.97	0.00493	49212	1.002E-07	4.95	0.0247	355588	6.946E-08	4.87	0.0986
1,1-Dichloroethane	ELCD	5.52	0.00436	39733	1.097E-07	5.49	0.0218	291890	7.469E-08	5.42	0.0872
cis-1,2-Dichloroethene	ELCD	6.27	0.0051	42944	1.188E-07	6.23	0.0255	326818	7.803E-08	6.16	0.102
Chloroform	ELCD	9.71	0.00523	58524	8.937E-08	6.67	0.0262	325028	8.061E-08	6.59	0.105
1,1,1-Trichloroethane	ELCD	6.88	0.00524	53697	9.758E-08	6.85	0.0262	408063	6.421E-08	6.77	0.1048
Carbon Tetrachloride	ELCD	7.09	0.0051	67851	7.516E-08	7.05	0.0255	464142	5.494E-08	6.97	0.102
1,2-Dichloroethane	ELCD	7.43	0.00511	52704	9.696E-08	7.4	0.0256	409746	6.248E-08	7.332	0.1022
Trichloroethene	ELCD	8.27	0.00501	66387	7.547E-08	8.23	0.0251	349657	7.178E-08	8.16	0.1002
1,1,2-Trichloroethane	ELCD	10.82	0.00505	53697	9.405E-08	10.78	0.0253	408063	6.2E-08	10.7	0.101
1,1,2-Trichloroethane	FID	1.11	0.00505	1447	3.49E-06	10.78	0.0253	7966	3.176E-06	10.7	0.101
Tetrachloroethene	ELCD	10.97	0.00503	94077	5.347E-08	10.93	0.0252	489033	5.153E-08	10.86	0.1006
1112 tetrachloroethane	ELCD	12.55	0.00504	70900	7.109E-08	12.5	0.0252	329680	7.644E-08	12.43	0.1008
1122 tetrachloroethane	ELCD	14.77	0.00512	53930	9.494E-08	14.71	0.0256	328632	7.79E-08	14.64	0.1024
1,1-Dichloroethene	PID	3.91	0.00504	9020	5.588E-07	3.89	0.0252	65497	3.848E-07	3.83	0.1008
Benzene	PID	7.33	0.00519	25038	2.073E-07	7.31	0.026	180629	1.439E-07	7.23	0.1038
Benzene	FID	8.56	0.00519	7259	7.15E-07	8.53	0.026	41172	6.315E-07	8.43	0.1038
Toluene	FID	11.48	0.00508	6934	7.326E-07	11.43	0.0254	41395	6.136E-07	11.34	0.102
Ethyl Benzene	PID	12.56	0.00515	22242	2.315E-07	12.51	0.0258	157223	1.641E-07	12.44	0.103
Ethyl Benzene + 1122PCA	FID	14.05	0.00515	7172	7.181E-07	13.99	0.0258	42082	6.131E-07	13.92	0.103
m/p-Xylene	PID	12.77	0.01028	58508	1.757E-07	12.72	0.0514	395745	1.299E-07	12.65	0.2056
m/p-Xylene	FID	14.28	0.01028	14450	7.114E-07	14.23	0.0514	86573	5.937E-07	14.14	0.2056
o-Xylene	FID	14.89	0.00514	21025	2.445E-07	14.83	0.0258	156758	1.646E-07	14.75	0.103
1,1,2-Trichlorotrifluoroethane	FID	5.44	0.00513	731	7.018E-06	5.43	0.0257	4604	5.582E-06	5.34	0.1026

Data printed in intalics were not used to calculate average Rf or %RSD values.

Shaded data exceeded control limits.

BGPAA 0164

Table 3
Multipoint Calibration Data

HYDRO GEO CHEM, INC
Project: Fugro/Burbank
Project #: L1265
Date Calibrated: December 20, 1995.
Analyst: P. Schumann
Instrument ID#: 3400-4199

CALIBRATION LEVEL	3				4						
Labquest File number:	L1265.027				L1265.030						
Time Injected:	6:57				8:13						
Volume injected(ul):	200				1000						
Standard Used:	CAL9516				CAL9516						
Compound Name	**AREA**	**Rf**	**RT (min)**	**STD CONC (ug)**	**AREA**	**Rf**	**AVE Rf**	**SD**	**RSD**	**Control Limits (%)**	**Comments**
Dichlorodifluoromethane	*552334*	1.832E-07	1.68	0.506	3617629	1.399E-07	1.411E-07	7.651E-09	5	+/- 30	
Vinyl Chloride	*609482*	1.667E-07	2.18	0.508	3525512	1.441E-07	1.299E-07	1.034E-08	8	+/- 30	
Chloroethane	*564369*	1.807E-07	2.86	0.51	3241175	1.574E-07	1.467E-07	1.632E-08	11	+/- 30	
Trichlorofluoromethane	1176248	8.74E-08	3.24	0.514	5607854	9.166E-08	8.315E-08	1.004E-08	12	+/- 30	
Dichloromethane	1079778	9.428E-08	4.63	0.509	4708750	1.081E-07	1.011E-07	5.643E-09	6	+/- 20	
1,1-Dichloroethene + F113	1867073	1.09E-07	3.97	1.018	7257691	1.403E-07	1.129E-07	1.292E-08	11	+/- 20	
trans-1,2-Dichloroethene	988657	9.973E-08	4.98	0.493	4664625	1.057E-07	9.377E-08	1.423E-08	15	+/- 20	
1,1-Dichloroethane	903002	9.657E-08	5.51	0.436	4498465	9.692E-08	9.448E-08	1.26E-08	13	+/- 20	
cis-1,2-Dichloroethene	999747	1.02E-07	6.26	0.51	4566903	1.117E-07	1.026E-07	1.539E-08	15	+/- 20	
Chloroform	1094091	9.597E-08	6.69	0.523	6088185	8.59E-08	8.796E-08	5.577E-09	6	+/- 20	
1,1,1-Trichloroethane	1242811	8.432E-08	6.87	0.524	5423824	9.661E-08	8.568E-08	1.346E-08	16	+/- 20	
Carbon Tetrachloride	1471775	6.93E-08	7.08	0.51	6173829	8.261E-08	7.05E-08	1.015E-08	14	+/- 20	
1,2-Dichloroethane	1217348	8.395E-08	7.43	0.511	5151292	9.92E-08	8.565E-08	1.459E-08	17	+/- 20	
Trichloroethene	1179793	8.493E-08	8.26	0.501	5260892	9.523E-08	8.185E-08	9.091E-09	11	+/- 20	
1,1,2-Trichloroethane	1242811	8.127E-08	10.8	0.505	5423824	9.311E-08	8.305E-08	1.489E-08	18	+/- 20	
1,1,2-Trichloroethane	30882	3.271E-06	10.8	0.505	149059	3.388E-06	3.351E-06	1.308E-07	4	+/- 20	
Tetrachloroethene	1494046	6.733E-08	10.96	0.503	*6020692*	8.355E-08	5.74E-08	8.65E-09	15	+/- 20	
1112 tetrachloroethane	1133019	8.897E-08	12.53	0.504	5399093	9.335E-08	8.246E-08	9.035E-09	11	+/- 20	
1122 tetrachloroethane	1186735	8.629E-08	14.74	0.512	5065253	1.011E-07	9.005E-08	8.766E-09	10	+/- 20	
1,1-Dichloroethene	289339	3.484E-07	3.92	0.504	1452839	3.469E-07	4.097E-07	8.738E-08	21	+/- 20	See ELCD data
Benzene	751012	1.382E-07	7.33	0.519	3438298	1.509E-07	1.601E-07	2.761E-08	17	+/- 20	
Benzene	161202	6.439E-07	8.55	0.519	783851	6.621E-07	6.631E-07	3.185E-08	5	+/- 20	
Toluene	160581	6.352E-07	11.47	0.508	766235	6.63E-07	6.611E-07	4.485E-08	7	+/- 20	
Ethyl Benzene	634366	1.624E-07	12.54	0.515	2879405	1.789E-07	1.842E-07	2.807E-08	15	+/- 20	
Ethyl Benzene + 1122PCA	162285	6.347E-07	14.03	0.515	766863	6.716E-07	1.314E-06	3.983E-08	3	+/- 20	
m/p-Xylene	1546353	1.33E-07	12.77	1.028	5903419	1.741E-07	1.532E-07	2.178E-08	14	+/- 20	
m/p-Xylene	325641	6.314E-07	14.27	1.028	1518246	6.771E-07	6.534E-07	4.465E-08	7	+/- 20	
o-Xylene	644150	1.599E-07	14.87	0.515	2934470	1.755E-07	1.861E-07	3.416E-08	18	+/- 20	
1,1,2-Trichlorotrifluoroethane	18579	5.522E-06	5.45	0.513	94846	5.409E-06	5.883E-06	6.583E-07	11	+/- 30	

Data printed in intalics were not used to calculate average Rf or %RSD values.

Shaded data exceeded control limits.

BGPAA 0165

Table 4
Daily Calibration Check Data

Project: FUGRO/BURBANK, CA
Project #: L1265

Date Calibrated: December 20, 1995.
Analyst: P. Schumann
Instrument ID#: 3400-4199

Date:	12-21-95
Time:	7:15
Labquest File number:	L1265.052
Volume injected(ul):	200
Standard Used:	CAL9516

Compound Name	Detector	Retention Time	Mass Injected(ug)	Area measured	Rf	Rf (IC)	RPD	Control Limits (%)
Dichlorodifluoromethane	ELCD	1.6	0.1012	633789	1.6E-07	1.4E-07	-14	+/- 25
Vinyl Chloride	ELCD	2.09	0.1016	694118	1.5E-07	1.3E-07	-13	+/- 25
Chloroethane	ELCD	2.78	0.102	642765	1.6E-07	1.5E-07	-6	+/- 25
Trichlorofluoromethane	ELCD	3.17	0.1028	1359472	7.6E-08	8.3E-08	9	+/- 25
Dichloromethane	ELCD	4.56	0.1018	1198993	8.5E-08	0.0000001	15	+/- 15
1,1-Dichloroethene + F113	ELCD	3.89	0.2036	2136606	9.5E-08	1.1E-07	13	+/- 15
trans-1,2-Dichloroethene	**ELCD**	**4.89**	**0.0986**	**1154435**	**8.5E-08**	**9.4E-08**	**9**	**+/- 15**
1,1-Dichloroethane	**ELCD**	5.43	0.0872	**1040231**	8.4E-08	9.4E-08	**11**	**+/- 15**
cis-1,2-Dichloroethene	**ELCD**	6.18	0.102	**1113498**	9.2E-08	0.0000001	**8**	**+/- 15**
Chloroform	ELCD	6.61	0.105	1175344	8.9E-08	8.8E-08	-2	+/- 15
1,1,1-Trichloroethane	**ELCD**	**6.79**	**0.1048**	**1323300**	**7.9E-08**	**8.6E-08**	**8**	**+/- 15**
Carbon Tetrachloride	ELCD	6.99	0.102	**1634648**	6.2E-08	7.1E-08	12	+/- 15
1,2-Dichloroethane	**ELCD**	**7.33**	**0.1022**	**1339350**	**7.6E-08**	**8.6E-08**	**11**	**+/- 15**
Trichloroethene	**ELCD**	**8.17**	**0.1002**	**1351684**	**7.4E-08**	**8.2E-08**	**10**	**+/- 15**
1,1,2 Tetrachloroethane	**FID**	**11.04**	**0.101**	**30435**	**3.3E-06**	**3.331E-06**	**0**	**+/- 15**
Tetrachloroethene	**ELCD**	**10.86**	**0.1006**	**1662843**	**6E-08**	**5.7E-08**	**-6**	**+/- 15**
1112 tetrachloroethane	ELCD	12.45	0.1008	1273398	7.9E-08	8.2E-08	3	+/- 15
1122 tetrachloroethane	ELCD	14.67	0.1024	1203623	8.5E-08	9E-08	5	+/- 15
1,1-Dichloroethene	PID	3.84	0.1008	258938	3.9E-07	4.2E-07	7	+/- 15
Benzene	**PID**	**7.24**	**0.1038**	**673436**	**1.5E-07**	**1.6E-07**	**4**	**+/- 15**
Toluene	**FID**	**10**	**0.102**	**157750**	**6.5E-07**	**6.11E-07**	**-6**	**+/- 15**
Ethyl Benzene	PID	12.46	0.103	567427	1.8E-07	1.8E-07	-1	+/- 15
m/p-Xylene	**PID**	**12.68**	**0.2056**	**1389384**	**1.5E-07**	**1.5E-07**	**1**	**+/- 15**
o-Xylene	**FID**	**14.77**	**0.103**	**573917**	**1.8E-07**	**1.9E-07**	**6**	**+/- 15**
1,1,2-Trichlorotrifluoroethane	FID	5.35	0.1026	18393	5.6E-06	0.0000059	5	+/- 25

Compounds in bold type are required by RWQCB

BGPAA 0166

Table 4
Daily Calibration Check Data

Project: FUGRO/BURBANK, CA
Project #: L1265

Date Calibrated: December 20, 1995.
Analyst: P. Schumann
Instrument ID#: 3400-4199

Date:	12-22-95
Time:	6:29
Labquest File number:	L1265.078
Volume injected(ul):	200
Standard Used:	CAL9516

Compound Name	Detector	Retention Time	Mass Injected(ug)	Area measured	Rf	Rf (IC)	RPD	Control Limits (%)	Comments
Dichlorodifluoromethane	ELCD	1.6	0.1012	620262	1.632E-07	1.4E-07	-17	+/- 25	
Vinyl Chloride	ELCD	2.09	0.1016	652178	1.558E-07	1.3E-07	-20	+/- 25	
Chloroethane	ELCD	2.78	0.102	610802	1.67E-07	1.5E-07	-11	+/- 25	
Trichlorofluoromethane	ELCD	3.17	0.1028	1236238	8.316E-08	8.3E-08	0	+/- 25	
Dichloromethane	ELCD	4.56	0.1018	1192057	8.54E-08	0.0000001	15	+/- 15	
trans-1,2-Dichloroethene	**ELCD**	**4.89**	**0.0986**	**1126388**	**8.754E-08**	**9.4E-08**	**7**	+/- 15	
1,1-Dichloroethane	**ELCD**	5.43	0.0872	**971886**	8.972E-08	9.4E-08	**5**	+/- 15	
cis-1,2-Dichloroethene	**ELCD**	6.18	0.102	**1056504**	9.654E-08	0.0000001	**3**	+/- 15	
Chloroform	ELCD	6.61	0.105	1172600	8.954E-08	8.8E-08	-2	+/- 15	
1,1,1-Trichloroethane	**ELCD**	**6.79**	**0.1048**	**1306713**	**8.02E-08**	**8.6E-08**	**7**	+/- 15	
Carbon Tetrachloride	ELCD	6.99	0.102	**1594424**	6.397E-08	7.1E-08	10	+/- 15	
1,2-Dichloroethane	**ELCD**	**7.33**	**0.1022**	**1271875**	**8.035E-08**	**8.6E-08**	**7**	+/- 15	
Trichloroethene	**ELCD**	**8.17**	**0.1002**	**1282036**	**7.816E-08**	**8.2E-08**	**5**	+/- 15	
1,1,2 Tetrachloroethane	**FID**	**11.04**	**0.101**	**31632**	**3.193E-06**	**3.331E-06**	**4**	+/- 15	
Tetrachloroethene	**ELCD**	**10.86**	**0.1006**	**1612157**	**6.24E-08**	**5.7E-08**	**-9**	+/- 15	
1112 tetrachloroethane	ELCD	12.45	0.1008	1217962	8.276E-08	8.2E-08	-1	+/- 15	
1122 tetrachloroethane	ELCD	14.67	0.1024	1267213	8.081E-08	9E-08	10	+/- 15	
1,1-Dichloroethene + F113	ELCD	3.89	0.2036	2012815	1.012E-07	1.1E-07	8	+/- 15	
1,1-Dichloroethene	PID	3.84	0.1008	236033	4.271E-07	4.2E-07	-2	+/- 15	
1,1-Dichloroethene + DCM	FID	5	0.2026	43305	4.678E-06	4.92E-06	5	+/- 15	
Benzene	**PID**	**7.24**	**0.1038**	**616130**	**1.685E-07**	**1.6E-07**	**-5**	+/- 15	
Toluene	**FID**	**10**	**0.102**	**157750**	**6.466E-07**	**6.11E-07**	**-6**	+/- 15	
Ethyl Benzene	PID	12.46	0.103	548931	1.876E-07	1.8E-07	-4	+/- 15	
Ethyl Benzene + 1122 Tetrachloroethane	FID	13.96	0.2054	149339	1.375E-06	0.0000013	-6	+/- 15	
m/p-Xylene	**PID**	**12.68**	**0.2056**	**1281471**	**1.604E-07**	**1.5E-07**	**-7**	+/- 15	
o-Xylene	**FID**	**14.77**	**0.103**	**192367**	**5.354E-07**	**5.665E-07**	**5**	+/- 15	
1,1,2-Trichlorotrifluoroethane	FID	5.35	0.1026	18881	5.434E-06	0.0000059	8	+/- 25	

Compounds in bold type are required by RWQCB

BGPAA 0167

Table 5
Laboratory Check Standard Data

Project #: L1265
Fugro/Burbank
Instrument ID#: 3400-4199

Date Analyzed:	12-19-95
Time Analyzed:	13:31
Labquest File #:	L1265.017
Standard Used:	CAL9517
Volume used:	1000

Compound Name	*Detector*	*RT(min)*	Mass Injected	AREA	Rf	Rf (IC)	RPD	Control Limits (%)
Dichlorodifluoromethane	ELCD	1.69	0.113	692021	1.633E-07	1.784E-07	8	+/- 25
Vinyl Chloride	ELCD	2.17	0.116	785955	1.476E-07	1.643E-07	10	+/- 25
Chloroethane	ELCD	2.83	0.12	758644	1.582E-07	1.792E-07	12	+/- 25
Trichlorofluoromethane	ELCD	3.21	0.104	976645	1.065E-07	9.455E-08	-13	+/- 15
Dichloromethane	ELCD	4.57	0.0985	863403	1.141E-07	1.03E-07	-11	+/- 15
1,1-Dichloroethene + F113	ELCD	3.925	0.2034	1523450	1.335E-07	1.268E-07	-5	+/- 15
trans-1,2-Dichloroethene	ELCD	4.91	0.099	899325	1.101E-07	1.023E-07	-8	+/- 15
1,1-Dichloroethane	ELCD	5.44	0.0996	847979	1.175E-07	1.07E-07	-10	+/- 15
cis-1,2-Dichloroethene	ELCD	6.18	0.1	793789	1.26E-07	1.181E-07	-7	+/- 15
Chloroform	ELCD	6.61	0.0995	842799	1.181E-07	1.171E-07	-1	+/- 15
1,1,1-Trichloroethane	ELCD	6.78	0.0985	927446	1.062E-07	1.01E-07	-5	+/- 15
Carbon Tetrachloride	ELCD	6.99	0.102	1264165	8.069E-08	8.08E-08	0	+/- 15
1,2-Dichloroethane	ELCD	7.33	0.1	978586	1.022E-07	9.547E-08	-7	+/- 15
Trichloroethene	ELCD	8.16	0.0994	994400	9.996E-08	1.043E-07	4	+/- 15
1,1,2-Trichloroethane	ELCD	10.7	0.1	666257	1.501E-07	1.484E-07	-1	+/- 15
Tetrachloroethene	ELCD	10.85	0.1	1151449	8.685E-08	7.979E-08	-9	+/- 15
1112 tetrachloroethane	ELCD	12.42	0.0994	900361	1.104E-07	1.003E-07	-10	+/- 15
1122 tetrachloroethane	ELCD	14.63	0.102	793973	1.285E-07	1.161E-07	-11	+/- 15
Benzene	PID	7.23	0.104	671783	1.548E-07	1.595E-07	3	+/- 15
Toluene	PID	9.98	0.104	622752	1.67E-07	1.707E-07	2	+/- 15
Ethyl Benzene	PID	12.43	0.102	506045	2.016E-07	2.052E-07	2	+/- 15
m/p-Xylene	PID	12.64	0.207	1272580	1.627E-07	1.69E-07	4	+/- 15
o-Xylene	PID	13.31	0.102	153590	6.641E-07	6.727E-07	1	+/- 15
1,1,2-Trichlorotrifluoroethane	FID	5.38	0.0996	15379	6.476E-06	6.022E-06	-8	+/- 25

BGPAA 0168

Table 5
Laboratory Control Standard Data

Project #: L1265
Fugro/Burbank

Date Analyzed:	12-20-95
Time Analyzed:	7:21
Labquest File #:	L1265.028
Standard Used:	CAL9517
Volume used:	1000ul

Compound Name	Detector	RT (min)	Mass Injected	AREA	Rf	Rf (IC)	RPD	Control Limits (%)	Comments
Dichlorodifluoromethane	ELCD	1.69	0.113	829503	1.362E-07	1.4E-07	3	+/- 25	
Vinyl Chloride	ELCD	2.17	0.116	920795	1.26E-07	1.3E-07	3	+/- 25	
Chloroethane	ELCD	2.85	0.12	865685	1.386E-07	1.5E-07	8	+/- 25	
Trichlorofluoromethane	ELCD	3.23	0.104	1115714	9.321E-08	8.3E-08	-12	+/- 25	
Dichloromethane	ELCD	4.6	0.0985	986257	9.987E-08	0.0000001	0	+/- 15	
trans-1,2-Dichloroethene	ELCD	3.94	0.099	1049335	9.435E-08	9.4E-08	0	+/- 15	
1,1-Dichloroethane	ELCD	4.93	0.0996	997149	9.988E-08	9.4E-08	-6	+/- 15	
cis-1,2-Dichloroethene	ELCD	5.48	0.1	903010	1.107E-07	0.0000001	-11	+/- 15	
Chloroform	ELCD	6.22	0.0995	935110	1.064E-07	8.8E-08	-21	+/- 15	See FID data
Chloroform	FID	6.65	0.0995	11323	8.787E-06	8.199E-06	-7	+/- 15	
1,1,1-Trichloroethane	ELCD	6.82	0.0985	1035986	9.508E-08	8.6E-08	-11	+/- 15	
Carbon Tetrachloride	ELCD	7.03	0.102	1367082	7.461E-08	7.1E-08	-5	+/- 15	
1,2-Dichloroethane	ELCD	7.37	0.1	1132822	8.828E-08	8.6E-08	-3	+/- 15	
Trichloroethene	ELCD	8.21	0.0994	1198145	8.296E-08	8.2E-08	-1	+/- 15	
1,1,2-Trichloroethane	FID	11.09	0.1	28167	3.55E-06	3.33E-06	-7	+/- 15	
Tetrachloroethene	ELCD	10.91	0.1	1403037	7.127E-08	6.575E-08	-8	+/- 15	
1112 tetrachloroethane	ELCD	12.48	0.0994	1089027	9.127E-08	8.2E-08	-11	+/- 15	
1122 tetrachloroethane	ELCD	14.7	0.102	1017055	1.003E-07	9E-08	-11	+/- 15	
1,1-Dichloroethene + F113	ELCD	3.94	0.2034	1674752	1.215E-07	1.1E-07	-10	+/- 15	
Benzene	PID	7.28	0.104	635805	1.636E-07	1.6E-07	-2	+/- 15	
Toluene	FID	10.04	0.104	145225	7.161E-07	6.6E-07	-9	+/- 15	
Ethyl Benzene	PID	12.49	0.102	510652	1.997E-07	1.8E-07	-11	+/- 15	
m/p-Xylene	PID	12.7	0.207	1300519	1.592E-07	1.5E-07	-6	+/- 15	
o-Xylene	FID	14.82	0.102	165940	6.147E-07	5.66E-07	-9	+/- 15	
1,1,2-Trichlorotrifluoroethane	FID	5.41	0.0996	15374	6.478E-06	0.0000059	-10	+/- 25	

BGPAA 0169

Table 5
Laboratory Check Standard Data

Project #: L1265
Fugro/Burbank
Instrument ID #: 3400-4199

Date Analyzed:	12-21-95
Time Analyzed:	7:48
Labquest File #:	L1265.053
Standard Used:	CAL9517
Volume used:	1000ul

Compound Name	*Detector*	RT (min)	Mass Injected	AREA	Rf	Rf (IC)	RPD	Control Limits (%)	Comments
Dichlorodifluoromethane	ELCD	1.71	0.113	813982	1.388E-07	1.4E-07	1	+/- 25	
Vinyl Chloride	ELCD	2.19	0.116	932891	1.243E-07	1.3E-07	4	+/- 25	
Chloroethane	ELCD	2.86	0.12	864499	1.388E-07	1.5E-07	7	+/- 25	
Trichlorofluoromethane	ELCD	3.25	0.104	1142042	9.106E-08	8.3E-08	-10	+/- 25	
Dichloromethane	ELCD	4.62	0.0985	989699	9.953E-08	0.0000001	0	+/- 15	
trans-1,2-Dichloroethene	ELCD	4.96	0.099	1010668	9.796E-08	9.4E-08	-4	+/- 15	
1,1-Dichloroethane	ELCD	5.49	0.0996	968215	1.029E-07	9.4E-08	-9	+/- 15	
cis-1,2-Dichloroethene	ELCD	6.24	0.1	919209	1.088E-07	0.0000001	-9	+/- 15	
Chloroform	ELCD	6.67	0.0995	981142	1.014E-07	8.8E-08	-15	+/- 15	
1,1,1-Trichloroethane	ELCD	6.85	0.0985	1021574	9.642E-08	8.6E-08	-12	+/- 15	
Carbon Tetrachloride	ELCD	7.06	0.102	1412604	7.221E-08	7.1E-08	-2	+/- 15	
1,2-Dichloroethane	ELCD	7.39	0.1	1136458	8.799E-08	8.6E-08	-2	+/- 15	
Trichloroethene	ELCD	8.23	0.0994	1133412	8.77E-08	8.2E-08	-7	+/- 15	
1,1,2-Trichloroethane	FID	11.11	0.1	28573	3.5E-06	3.38E-06	-4	+/- 15	
Tetrachloroethene	ELCD	10.93	0.1	1378282	7.255E-08	6.575E-08	-10	+/- 15	
1112 tetrachloroethane	ELCD	12.51	0.0994	1075504	9.242E-08	8.2E-08	-13	+/- 15	
1122 tetrachloroethane	ELCD	14.72	0.102	1003881	1.016E-07	9E-08	-13	+/- 15	
1,1-Dichloroethene + F113	ELCD	3.97	0.2034	1708157	1.191E-07	1.1E-07	-8	+/- 15	
1,1-Dichloroethene	PID	3.92	0.1	200347	4.991E-07	4.1E-07	-22	+/- 15	See ELCD & FID data
1,1-Dichloroethene + DCM	FID	5.05	0.1985	35340	5.617E-06	4.92E-06	-14	+/- 15	
Benzene	PID	7.3	0.104	576109	1.805E-07	1.6E-07	-13	+/- 15	See FID data
Benzene	FID	8.51	0.104	148897	6.985E-07	6.6E-07	-6	+/- 15	
Toluene	PID	10.06	0.104	147339	7.059E-07	6.61E-07	-7	+/- 15	
Ethyl Benzene	PID	12.52	0.102	464759	2.195E-07	1.84E-07	-19	+/- 15	See FID data
Ethyl Benzene +1122PCA	FID	13.99	0.204	144189	1.415E-06	0.0000013	-9	+/- 15	
m/p-Xylene	PID	12.73	0.207	1181537	1.752E-07	1.71E-07	-2	+/- 15	
o-Xylene	FID	14.83	0.102	166542	6.125E-07	5.66E-07	-8	+/- 15	
1,1,2-Trichlorotrifluoroethane	FID	5.42	0.0996	15676	6.354E-06	0.0000059	-8	+/- 25	

BGPAA 0170

Table 5
Laboratory Check Standard Data

Project #: L1265
Fugro/Burbank
Instrument ID#: 3400-4199

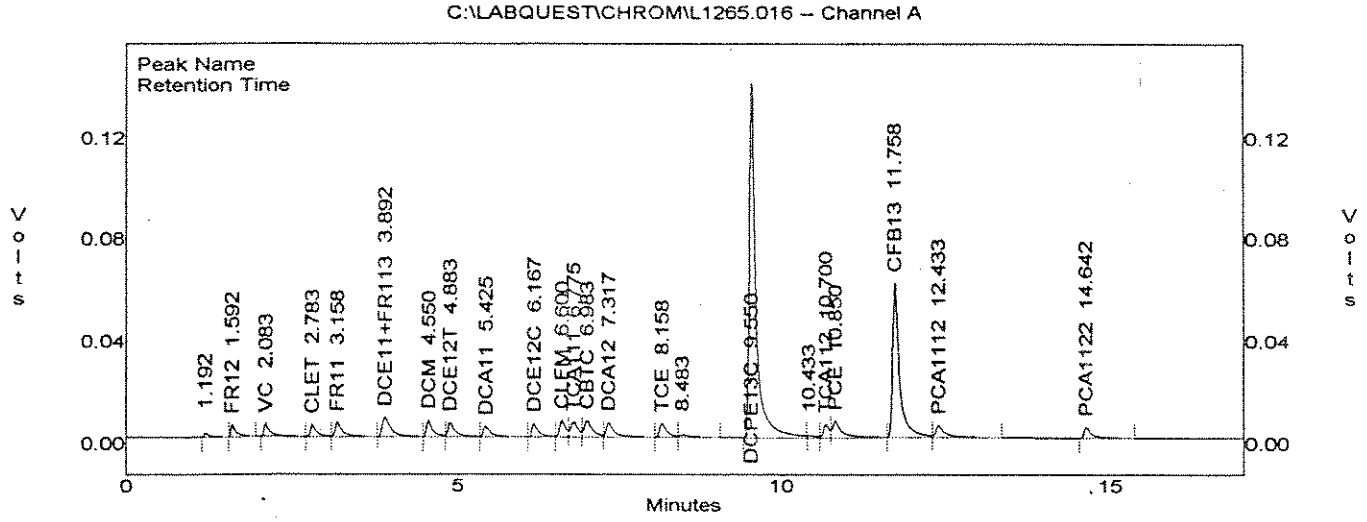
Date Analyzed:	12-22-95
Time Analyzed:	6:57
Labquest File #:	L1265.079
Standard Used:	CAL9517
Volume used:	1000ul

Compound Name	*Detector*	RT(min)	Mass Injected	AREA	Rf	Rf(IC)	RPD	Control Limits (%)	Comments
Dichlorodifluoromethane	ELCD	1.71	0.113	792843	1.425E-07	1.4E-07	-2	+/- 25	
Vinyl Chloride	ELCD	2.19	0.116	862955	1.344E-07	1.3E-07	-3	+/- 25	
Chloroethane	ELCD	2.86	0.12	839830	1.429E-07	1.5E-07	5	+/- 25	
Trichlorofluoromethane	ELCD	3.25	0.104	1116955	9.311E-08	8.3E-08	-12	+/- 25	
Dichloromethane	ELCD	4.62	0.0985	925563	1.064E-07	0.0000001	-6	+/- 15	
trans-1,2-Dichloroethene	ELCD	4.96	0.099	1037615	9.541E-08	9.4E-08	-2	+/- 15	
1,1-Dichloroethane	ELCD	5.49	0.0996	964764	1.032E-07	9.4E-08	-10	+/- 15	
cis-1,2-Dichloroethene	ELCD	6.24	0.1	912570	1.096E-07	0.0000001	-10	+/- 15	
Chloroform	ELCD	6.67	0.0995	973614	1.022E-07	8.8E-08	-16	+/- 15	See FID data
Chloroform	FID	6.67	0.0995	11841	8.403E-06	0.0000077	-9	+/- 15	
1,1,1-Trichloroethane	ELCD	6.85	0.0985	1061550	9.279E-08	8.6E-08	-8	+/- 15	
Carbon Tetrachloride	ELCD	7.06	0.102	1404014	7.265E-08	7.1E-08	-2	+/- 15	
1,2-Dichloroethane	ELCD	7.39	0.1	1118374	8.942E-08	8.6E-08	-4	+/- 15	
Trichloroethene	ELCD	8.23	0.0994	1127038	8.82E-08	8.2E-08	-8	+/- 15	
1,1,2-Trichloroethane	FID	11.11	0.1	29167	3.429E-06	3.38E-06	-1	+/- 15	
Tetrachloroethene	ELCD	10.93	0.1	1478475	6.764E-08	5.7E-08	-19	+/- 15	
1112 tetrachloroethane	ELCD	12.51	0.0994	1154401	8.611E-08	8.2E-08	-5	+/- 15	
1122 tetrachloroethane	ELCD	14.72	0.102	1092736	9.334E-08	9E-08	-4	+/- 15	
1,1-Dichloroethene + F113	ELCD	3.97	0.2034	1671179	1.217E-07	1.1E-07	-11	+/- 15	
1,1-Dichloroethene	PID	3.92	0.1	183387	5.453E-07	4.1E-07	-33	+/- 15	Use ELCD & FID data
1,1-Dichloroethene + DCM	FID	5.05	0.1985	40595	4.89E-06	0.0000049	0	+/- 15	
Benzene	PID	7.3	0.104	529534	1.964E-07	1.6E-07	-23	+/- 15	See FID data
Benzene	FID	8.51	0.104	149812	6.942E-07	6.6E-07	-5	+/- 15	
Toluene	FID	10.06	0.104	149931	6.937E-07	6.6E-07	-5	+/- 15	
Ethyl Benzene	PID	12.52	0.102	440587	2.315E-07	1.8E-07	-29	+/- 15	See FID data
Ethyl Benzene +1122PCA	FID	13.99	0.204	149339	1.366E-06	0.0000013	-5	+/- 15	
m/p-Xylene	PID	12.73	0.207	1122557	1.844E-07	1.71E-07	-8	+/- 15	
o-Xylene	FID	14.83	0.102	176798	5.769E-07	5.88E-07	2	+/- 15	
1,1,2-Trichlorotrifluoroethane	FID	5.42	0.0996	16028	6.214E-06	0.0000059	-5	+/- 25	

BGPAA 0171

APPENDIX A
CHROMATOGRAMS AND FIELD DATA SHEETS

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.016
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516-2
Acquired : Dec 19, 1995 13:02:58
Printed : Dec 19, 1995 13:20:16
User : PAS



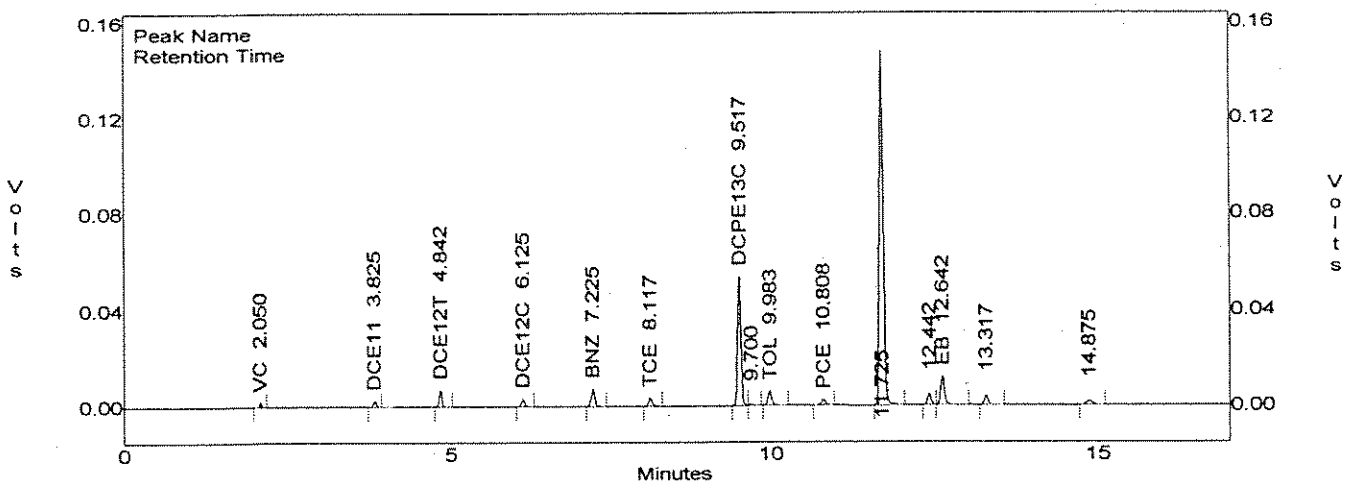
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.192	10946	0.000	0
2	FR12	1.592	25590	0.004	0
3	VC	2.083	32586	0.004	0
4	CLET	2.783	32500	0.005	0
5	FR11	3.158	48246	0.003	0
6	DCE11+FR113	3.892	73415	0.007	0
7	DCM	4.550	45218	0.004	0
8	DCE12T	4.883	45654	0.004	0
9	DCA11	5.425	35738	0.003	0
10	DCE12C	6.167	38782	0.004	0
11	CLFM	6.600	40877	0.004	0
12	TCA111	6.775	47592	0.004	0
13	CBTC	6.983	61269	0.004	0
14	DCA12	7.317	56238	0.004	0
15	TCE	8.158	43824	0.004	0
16		8.483	14397	0.000	0
17	DCPE13C	9.550	993414	0.873	0
18		10.433	8435	0.000	0
19	TCA112	10.700	32667	0.004	0
20	PCE	10.850	72972	0.005	0
21	CFB13	11.758	451045	0.880	0
22	PCA1112	12.433	55140	0.005	0
23	PCA1122	14.642	37991	0.004	0
Totals :			2304546	1.827	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.016
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516-2
Acquired : Dec 19, 1995 13:02:58
Printed : Dec 19, 1995 13:20:21
User : PAS

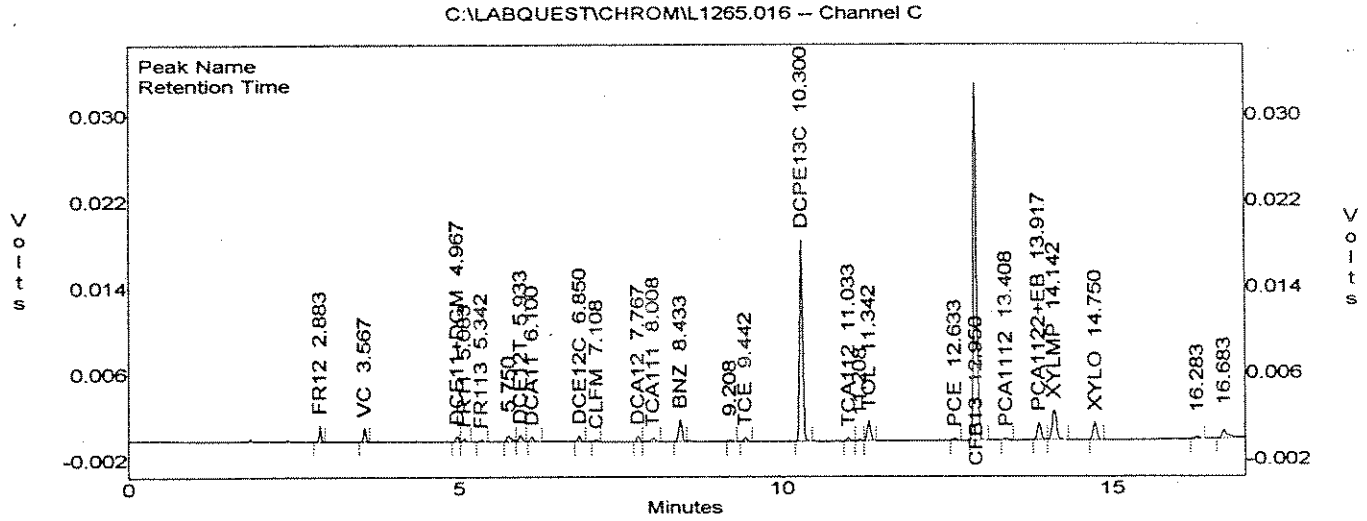
C:\LABQUEST\CHROM\L1265.016 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1	VC	2.050	4673	0.005	0
2	DCE11	3.825	9612 ~~9209~~ PS	0.003	0
3	DCE12T	4.842	21963	0.004	0
4	DCE12C	6.125	11786	0.004	0
5	BNZ	7.225	27706	0.004	0
6	TCE	8.117	13456	0.004	0
7	DCPE13C	9.517	204386	0.961	0
8		9.700	1797	0.000	0
9	TOL	9.983	24432	0.004	0
10	PCE	10.808	10700	0.003	0
11		11.725	606797	0.000	0
--	CFB13	11.790	0	0.000	0
12		12.442	PS ~~19074~~ 19294	0.000	0
13	EB	12.642	50015	0.008	0
--	XYLMP	12.710	0	0.000	0
14	PS	13.317	17240	0.000	0
--	XYLO	13.380	0	0.000	0
15		14.875	11747	0.000	0
Totals :			1034986	0.999	

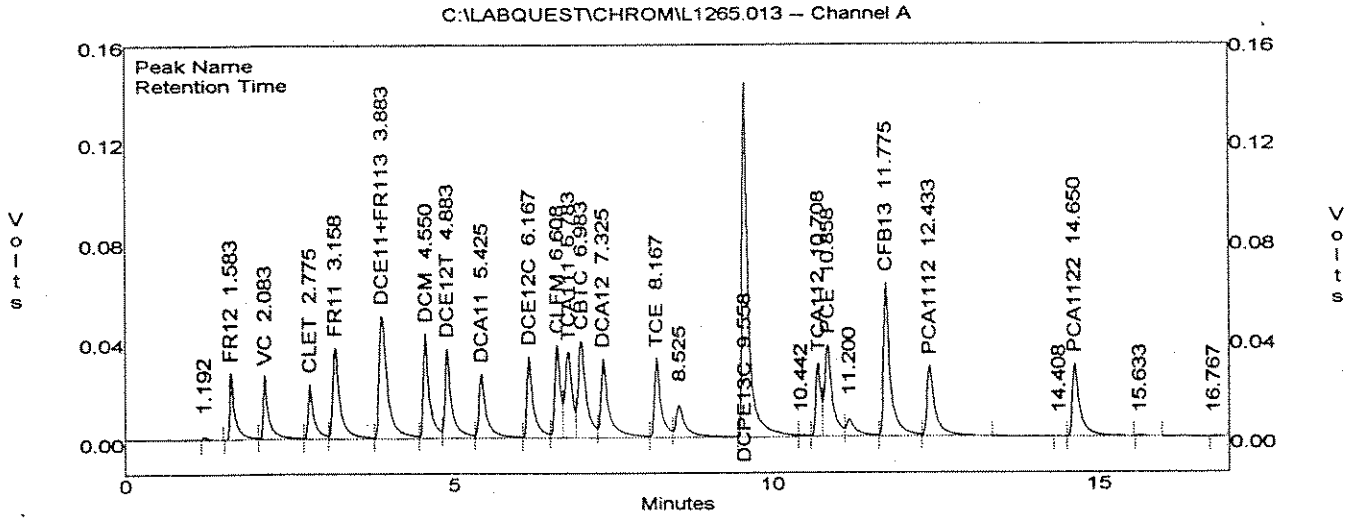
Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.016
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516-2
Acquired : Dec 19, 1995 13:02:58
Printed : Dec 19, 1995 13:20:22
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1	FR12	2.883	3293	0.007	0
2	VC	3.567	3398	0.007	0
--	CLET	4.450	0	0.000	0
3	DCE11+DCM	4.967	1818	0.010	0
4	FR11	5.083	943	0.005	0
5	FR113	5.342	825	0.005	0
6		5.750	2790	0.000	0
7	DCE12T	5.933	2076	0.005	0
8	DCA11	6.100	1578	0.004	0
9	DCE12C	6.850	1849	0.005	0
10	CLFM	7.108	552	0.005	0
11	DCA12	7.767	1831	0.005	0
12	TCA111	8.008	1618	0.006	0
13	BNZ	8.433	7251	0.005	0
--	CBTC	8.660	0	0.000	0
14		9.208	579	0.000	0
15	TCE	9.442	1339	0.005	0
16	DCPE13C	10.300	64454	1.006	0
17	TCA112	11.033	1278	0.005	0
18		11.208	524	0.000	0
19	TOL	11.342	6663	0.005	0
20	PCE	12.633	977	0.004	0
21	CFB13	12.950	117162	1.002	0
22	PCA1112	13.408	875	0.004	0
23	PCA1122+EB	13.917	6508	0.009	0
24	XYLMP	14.142	12477	0.008	0
25	XYLO	14.750	6582	0.004	0
26		16.283	959	0.000	0
27		16.683	4496	0.000	0
Totals :			254705	2.119	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.013
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516
Acquired : Dec 19, 1995 11:54:38
Printed : Dec 19, 1995 12:11:58
User : PAS

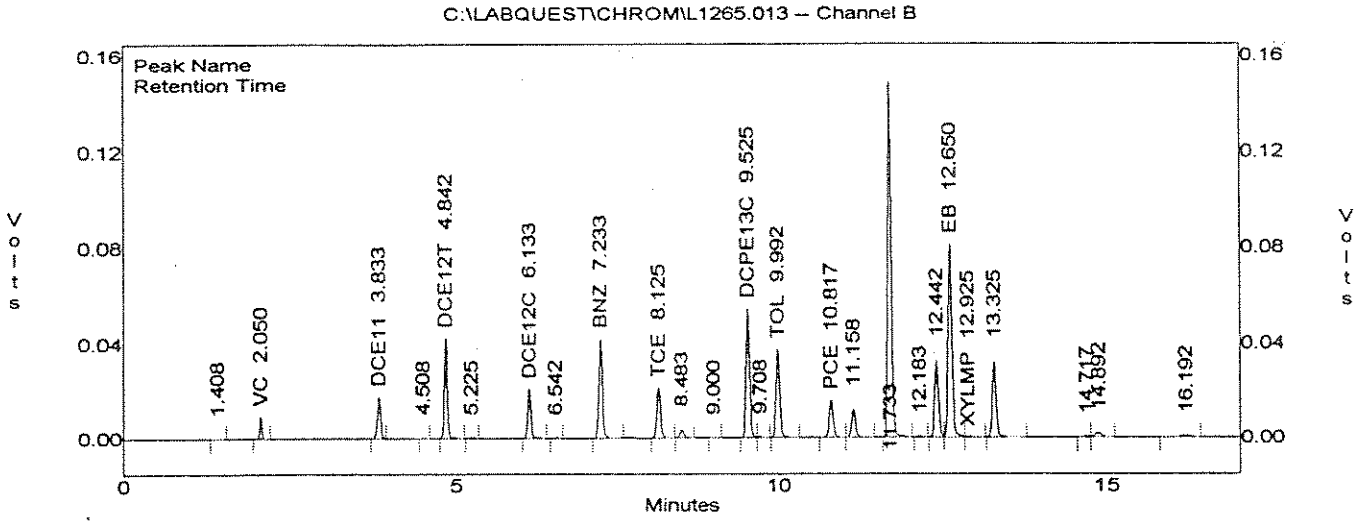


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.192	6750	0.000	0
2	FR12	1.583	145610	0.021	0
3	VC	2.083	159444	0.022	0
4	CLET	2.775	137204	0.020	0
5	FR11	3.158	295623	0.021	0
6	DCE11+FR113	3.883	457719	0.043	0
7	DCM	4.550	276908	0.022	0
8	DCE12T	4.883	266411	0.022	0
9	DCA11	5.425	218563	0.018	0
10	DCE12C	6.167	234538	0.022	0
11	CLFM	6.608	229604	0.021	0
12	TCA111	6.783	267752	0.022	0
13	CBTC	6.983	339566	0.022	0
14	DCA12	7.325	286505	0.022	0
15	TCE	8.167	235068	0.019	0
16		8.525	148032	0.000	0
17	DCPE13C	9.558	1004062	0.882	0
18		10.442	6950	0.000	0
19	TCA112	10.708	168523	0.022	0
20	PCE	10.858	312222	0.021	0
21		11.200	80383	0.000	0
22	CFB13	11.775	462185	0.902	0
23	PCA1112	12.433	252900	0.022	0
24		14.408	1171	0.000	0
25	PCA1122	14.650	243915	0.023	0
26		15.633	2352	0.000	0
27		16.767	522	0.000	0
Totals :			6240496	2.190	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

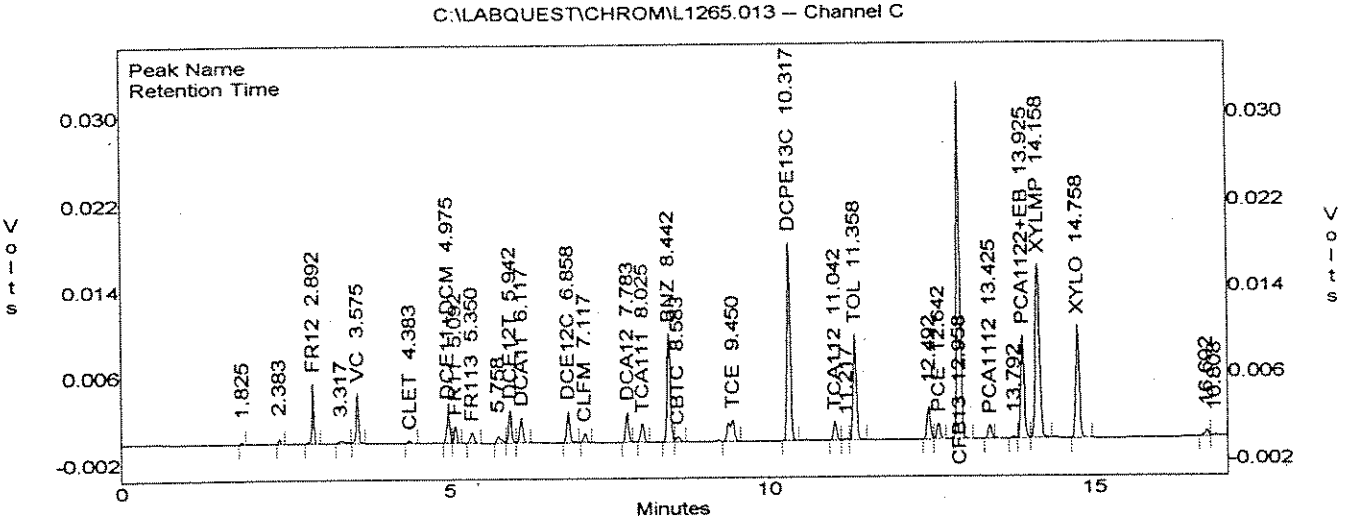
File : C:\LABQUEST\CHROM\L1265.013
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516
Acquired : Dec 19, 1995 11:54:38
Printed : Dec 19, 1995 12:12:02
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1		1.408	598	0.000	0
2	VC	2.050	20516	0.021	0
3	DCE11	3.833	60888	0.021	0
4		4.508	1303	0.000	0
5	DCE12T	4.842	137034	0.022	0
6		5.225	931	0.000	0
7	DCE12C	6.133	74232	0.022	0
8		6.542	514	0.000	0
9	BNZ	7.233	166649	0.023	0
10	TCE	8.125	83151	0.022	0
11		8.483	15794	0.000	0
12		9.000	919	0.000	0
13	DCPE13C	9.525	206307	0.970	0
14		9.708	1831	0.000	0
15	TOL	9.992	154260	0.022	0
16	PCE	10.817	67953	0.022	0
17		11.158	50605	0.000	0
18		11.733	610357	0.000	0
--	CFB13	11.790	0	0.000	0
19		12.183	2169	0.000	0
20		12.442	137003	0.000	0
21	EB	12.650	345975	0.058	0
22	XYLMP	12.925	3015	0.000	0
23		13.325	134855	0.000	0
--	XYLO	13.380	0	0.000	0
24		14.717	2548	0.000	0
25		14.892	13535	0.000	0
26		16.192	6041	0.000	0
Totals :			2298994	1.203	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.013
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516
Acquired : Dec 19, 1995 11:54:38
Printed : Dec 19, 1995 12:12:04
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.825	517	0.000	0
2		2.383	1072	0.000	0
3	FR12	2.892	12011	0.025	0
4		3.317	2214	0.000	0
5	VC	3.575	12098	0.025	0
6	CLET	4.383	882	0.024	0
7	DCE11+DCM	4.975	9575	0.050	0
8	FR11	5.092	4604	0.024	0
9	FR113	5.350	4126	0.024	0
10		5.758	3337	0.000	0
11	DCE12T	5.942	9618	0.025	0
12	DCA11	6.117	8268	0.021	0
13	DCE12C	6.858	9854	0.026	0
14	CLFM	7.117	2895	0.024	0
15	DCA12	7.783	9059	0.024	0
16	TCA111	8.025	6752	0.024	0
17	BNZ	8.442	35622	0.025	0
18	CBTC	8.583	2290	0.025	0
19	TCE	9.450	12972	0.046	0
20	DCPE13C	10.317	64089	1.000	0
21	TCA112	11.042	6668	0.024	0
22		11.217	571	0.000	0
23	TOL	11.358	34955	0.024	0
24		12.492	11088	0.000	0
25	PCE	12.642	5552	0.025	0
26	CFB13	12.958	116891	0.999	0
27	PCA1112	13.425	5027	0.023	0
28		13.792	687	0.000	0
29	PCA1122+EB	13.925	35464	0.049	0
30	XYLMP	14.158	71168	0.048	0
31	XYLO	14.758	40472	0.024	0
32		16.692	2495	0.000	0
33		16.808	1209	0.000	0

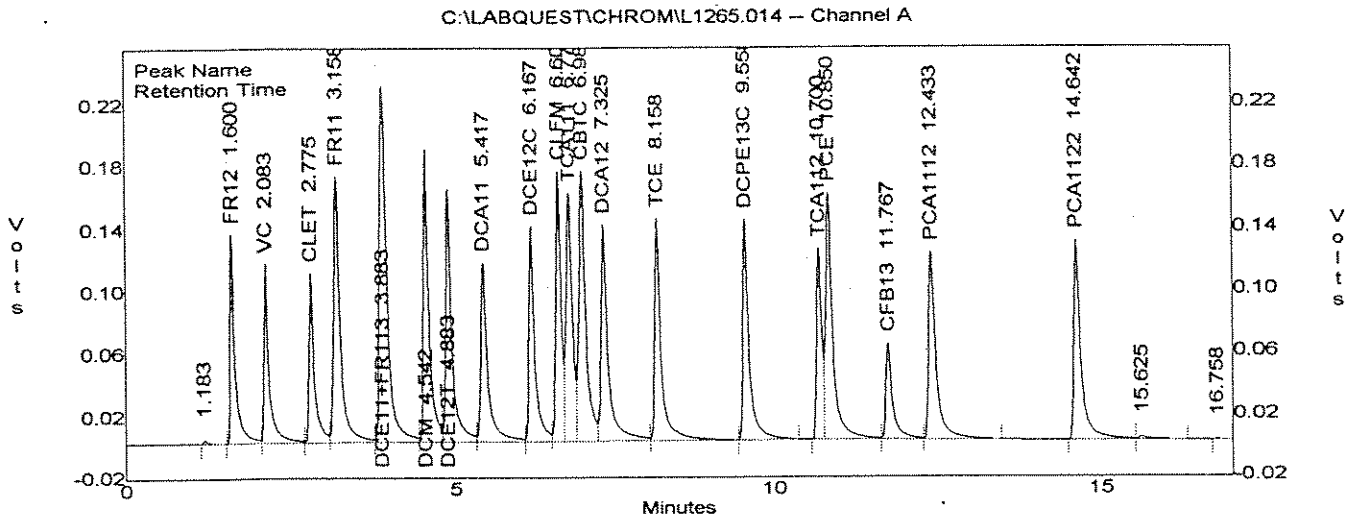
Continued...

File : C:\LABQUEST\CHROM\L1265.013
Method : C:\LABQUEST\METHODS\L1265.MET
mple ID : 50UL CAL9516
quired : Dec 19, 1995 11:54:38
inted : Dec 19, 1995 12:12:06
User : PAS

Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
Totals :			544114	2.630	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.014
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 200UL CAL9516
Acquired : Dec 19, 1995 12:17:41
Printed : Dec 19, 1995 12:34:59
User : PAS



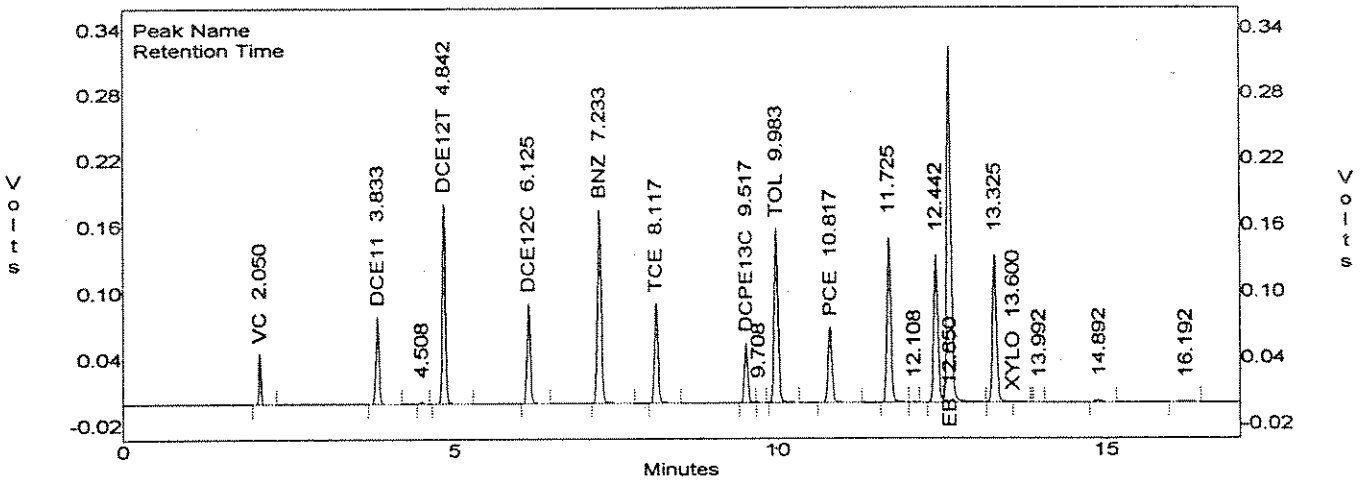
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.183	11328	0.000	0
2	FR12	1.600	650092	0.092	0
3	VC	2.083	621371	0.085	0
4	CLET	2.775	617410	0.092	0
5	FR11	3.158	1203788	0.087	0
6	DCE11+FR113	3.883	1867055	0.177	0
7	DCM	4.542	1103966	0.089	0
8	DCE12T	4.883	1046682	0.087	0
9	DCA11	5.417	872080	0.072	0
10	DCE12C	6.167	896776	0.084	0
11	CLFM	6.600	958512	0.086	0
12	TCA111	6.775	1142718	0.093	0
13	CBTC	6.983	1340696	0.088	0
14	DCA12	7.325	1064846	0.083	0
15	TCE	8.158	1045024	0.083	0
16	DCPE13C	9.558	971597	0.854	0
17	TCA112	10.700	666464	0.087	0
18	PCE	10.850	1263084	0.086	0
19	CFB13	11.767	461915	0.901	0
20	PCA1112	12.433	950116	0.084	0
21	PCA1122	14.642	966613	0.090	0
22		15.625	23967	0.000	0
23		16.758	3005	0.000	0
Totals :			19749114	3.399	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.014
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 200UL CAL9516
Acquired : Dec 19, 1995 12:17:41
Printed : Dec 19, 1995 12:35:02
User : PAS

C:\LABQUEST\CHROM\L1265.014 – Channel B



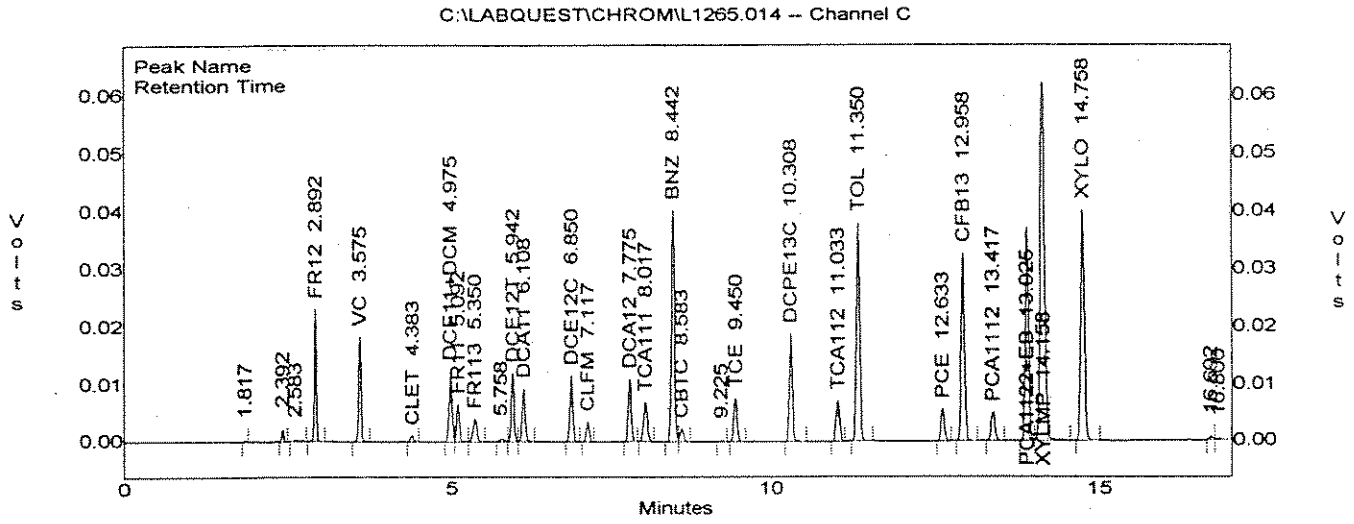
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1	VC	2.050	97479	0.099	0
2	DCE11	3.833	279034	0.096	0
3		4.508	5450	0.000	0
4	DCE12T	4.842	578666	0.092	0
5	DCE12C	6.125	318995	0.095	0
6	BNZ	7.233	701667	0.097	0
7	TCE	8.117	355226	0.093	0
8	DCPE13C	9.517	206399	0.971	0
9		9.708	1391	0.000	0
10	TOL	9.983	645058	0.094	0
11	PCE	10.817	291047	0.093	0
12		11.725	610799	0.000	0
--	CFB13	11.790	0	0.000	0
13		12.108	1587	0.000	0
14		12.442	563617	0.000	0
15	EB	12.650	1384417	0.232	0
--	PS XYLMP	12.710	0	0.000	0
16	XYLO	13.325	569692	0.000	0
17	~~XYLO~~ PS	13.600	1070	0.000	0
18		13.992	908	0.000	0
19		14.892	12722	0.000	0
20		16.192	5951	0.000	0

Totals :

	6631183	1.962

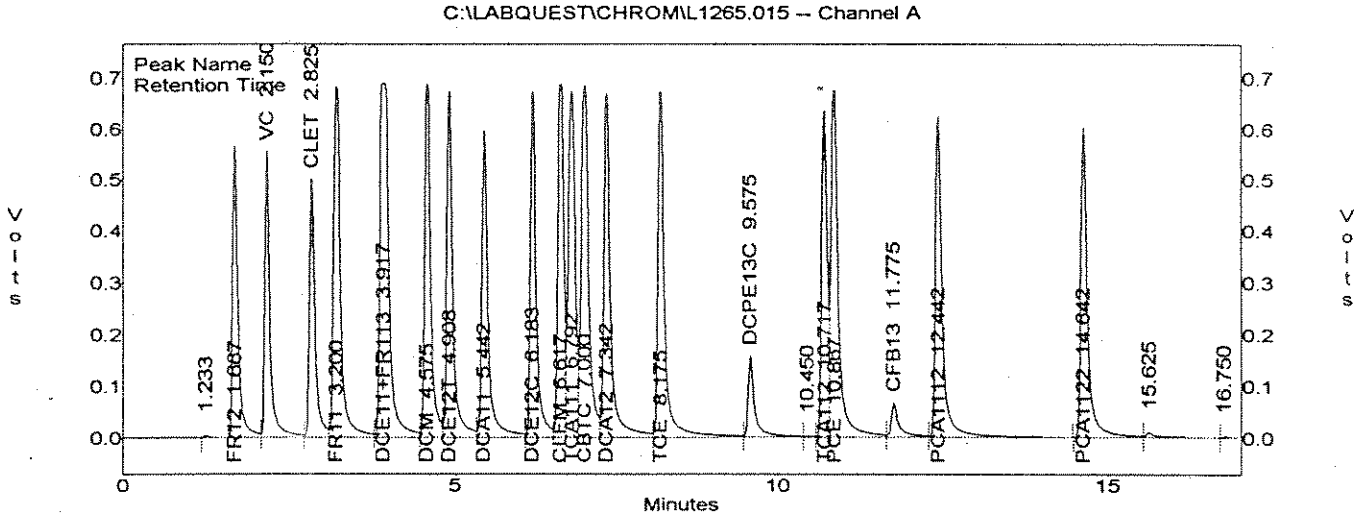
Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.014
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 200UL CAL9516
Acquired : Dec 19, 1995 12:17:41
Printed : Dec 19, 1995 12:35:04
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.817	572	0.000	0
2		2.392	4331	0.000	0
3		2.583	1490	0.000	0
4	FR12	2.892	48017	0.099	0
5	VC	3.575	47163	0.099	0
6	CLET	4.383	3668	0.101	0
7	DCE11+DCM	4.975	38837	0.205	0
8	FR11	5.092	18752	0.098	0
9	FR113	5.350	17224	0.101	0
10		5.758	2628	0.000	0
11	DCE12T	5.942	35996	0.094	0
12	DCA11	6.108	32241	0.083	0
13	DCE12C	6.850	36993	0.097	0
14	CLFM	7.117	11858	0.100	0
15	DCA12	7.775	36305	0.095	0
16	TCA111	8.017	27970	0.099	0
17	BNZ	8.442	141788	0.099	0
18	CBTC	8.583	9159	0.099	0
19		9.225	522	0.000	0
20	TCE	9.450	26841	0.095	0
21	DCPE13C	10.308	65273	1.018	0
22	TCA112	11.033	26403	0.094	0
23	TOL	11.350	138171	0.096	0
24	PCE	12.633	21423	0.095	0
25	CFB13	12.958	118148	1.010	0
26	PCA1112	13.417	20526	0.096	0
27	PCA1122+EB	13.925	138493	0.192	0
28	XYLMP	14.158	278581	0.190	0
29	XYLO	14.758	157949	0.095	0
30		16.692	2039	0.000	0
31		16.800	1113	0.000	0
Totals :			1510483	4.448	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.015
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 1000UL CAL9516
Acquired : Dec 19, 1995 12:40:14
Printed : Dec 19, 1995 12:57:32
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.233	22625	0.000	0
2	FR12	1.667	3214520	0.457	0
3	VC	2.150	3126889	0.427	0
4	CLET	2.825	2816385	0.418	0
5	FR11	3.200	5175558	0.374	0
6	DCE11+FR113	3.917	6841531	0.649	0
7	DCM	4.575	4415298	0.357	0
8	DCE12T	4.908	4306721	0.357	0
9	DCA11	5.442	4110177	0.340	0
10	DCE12C	6.183	4303078	0.404	0
11	CLFM	6.617	4527472	0.404	0
12	TCA111	6.792	5031779	0.411	0
13	CBTC	7.000	5732766	0.375	0
14	DCA12	7.342	4835331	0.376	0
15	TCE	8.175	4990343	0.399	0
16	DCPE13C	9.575	1183975	1.040	0
17		10.450	23284	0.000	0
18	TCA112	10.717	3680731	0.479	0
19	PCE	10.867	5587397	0.379	0
20	CFB13	11.775	590505	1.152	0
21	PCA1112	12.442	4837091	0.426	0
22	PCA1122	14.642	4318534	0.402	0
23		15.625	126532	0.000	0
24		16.750	14222	0.000	0

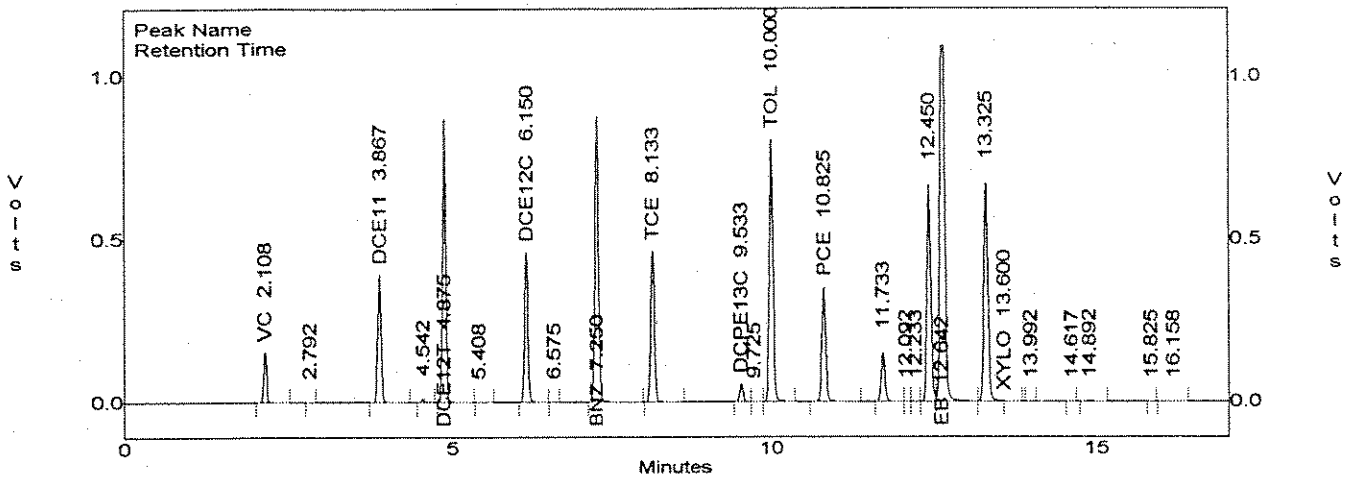
Totals :

	83812752	9.626

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.015
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 1000UL CAL9516
Acquired : Dec 19, 1995 12:40:14
Printed : Dec 19, 1995 12:57:37
User : PAS

C:\LABQUEST\CHROM\L1265.015 -- Channel B

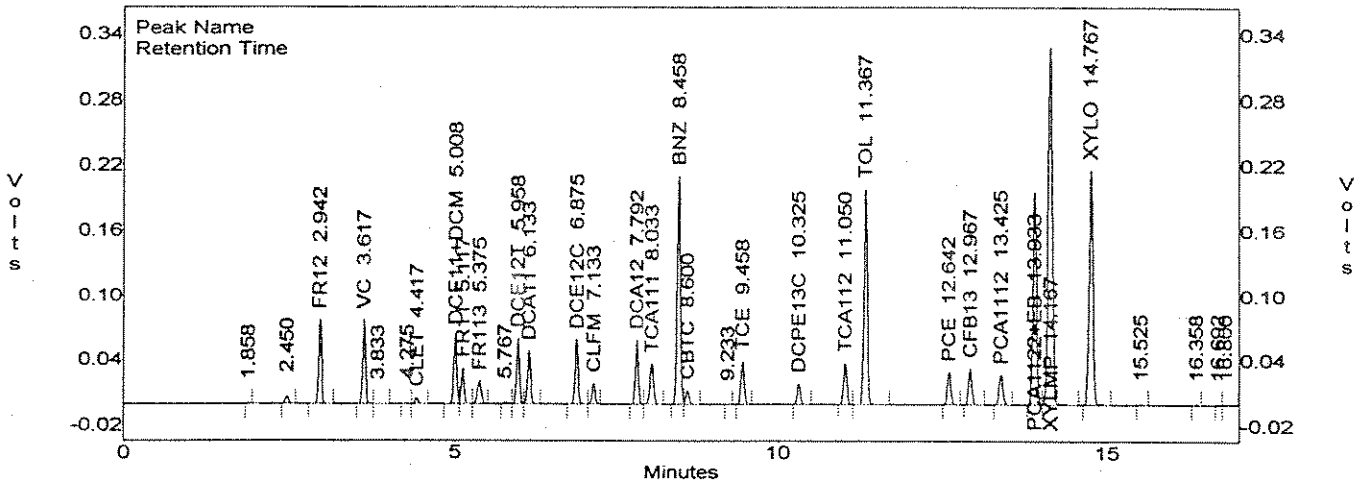


Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1	VC	2.108	519414	0.527	0
2		2.792	1653	0.000	0
3	DCE11	3.867	1471349	0.509	0
4		4.542	34483	0.000	0
5	DCE12T	4.875	2935852	0.469	0
6		5.408	3857	0.000	0
7	DCE12C	6.150	1676393	0.501	0
8		6.575	955	0.000	0
9	BNZ	7.250	3537572	0.489	0
10	TCE	8.133	1859556	0.485	0
11	DCPE13C	9.533	207053	0.974	0
12		9.725	1756	0.000	0
13	TOL	10.000	3340440	0.487	0
14	PCE	10.825	1513159	0.481	0
15		11.733	608293	0.000	0
--	CFB13	11.790	0	0.000	0
16		12.092	515	0.000	0
17		12.233	706	0.000	0
18		12.450	2863550	0.000	0
19	EB	12.642	5929350	0.993	0
--	XYLMP	12.710	0	0.000	0
20		13.325	2964433	0.000	0
21	XYLO	13.600	7804	0.001	0
22		13.992	12389	0.000	0
23		14.617	855	0.000	0
24		14.892	13290	0.000	0
25		15.825	513	0.000	0
26		16.158	5887	0.000	0
Totals :			29511084	5.915	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.015
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 1000UL CAL9516
Acquired : Dec 19, 1995 12:40:14
Printed : Dec 19, 1995 12:57:39
User : PAS

C:\LABQUEST\CHROM\L1265.015 -- Channel C



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.858	858	0.000	0
2		2.450	22930	0.000	0
3	FR12	2.942	254049	0.526	0
4	VC	3.617	248234	0.523	0
5		3.833	770	0.000	0
6		4.275	1411	0.000	0
7	CLET	4.417	19902	0.547	0
8	DCE11+DCM	5.008	204498	1.077	0
9	FR11	5.117	98719	0.515	0
10	FR113	5.375	90164	0.528	0
11		5.767	5215	0.000	0
12	DCE12T	5.958	186345	0.485	0
13	DCA11	6.133	168561	0.436	0
14	DCE12C	6.875	195026	0.510	0
15	CLFM	7.133	63485	0.537	0
16	DCA12	7.792	192352	0.504	0
17	TCA111	8.033	150090	0.529	0
18	BNZ	8.458	740936	0.516	0
19	CBTC	8.600	48388	0.525	0
20		9.233	521	0.000	0
21	TCE	9.458	139925	0.493	0
22	DCPE13C	10.325	64823	1.011	0
23	TCA112	11.050	138709	0.496	0
24	TOL	11.367	721898	0.500	0
25	PCE	12.642	111253	0.491	0
26	CFB13	12.967	118783	1.015	0
27	PCA1112	13.425	106228	0.494	0
28	PCA1122+EB	13.933	726453	1.005	0
29	XYLMP	14.167	1455397	0.991	0
30	XYLO	14.767	832256	0.501	0
31		15.525	1534	0.000	0
32		16.358	1324	0.000	0
33		16.692	2051	0.000	0

Continued...

File : C:\LABQUEST\CHROM\L1265.015
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 1000UL CAL9516
Acquired : Dec 19, 1995 12:40:14
Printed : Dec 19, 1995 12:57:41
User : PAS

Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
34		16.800	1229	0.000	0

Totals :

	7114333	14.757

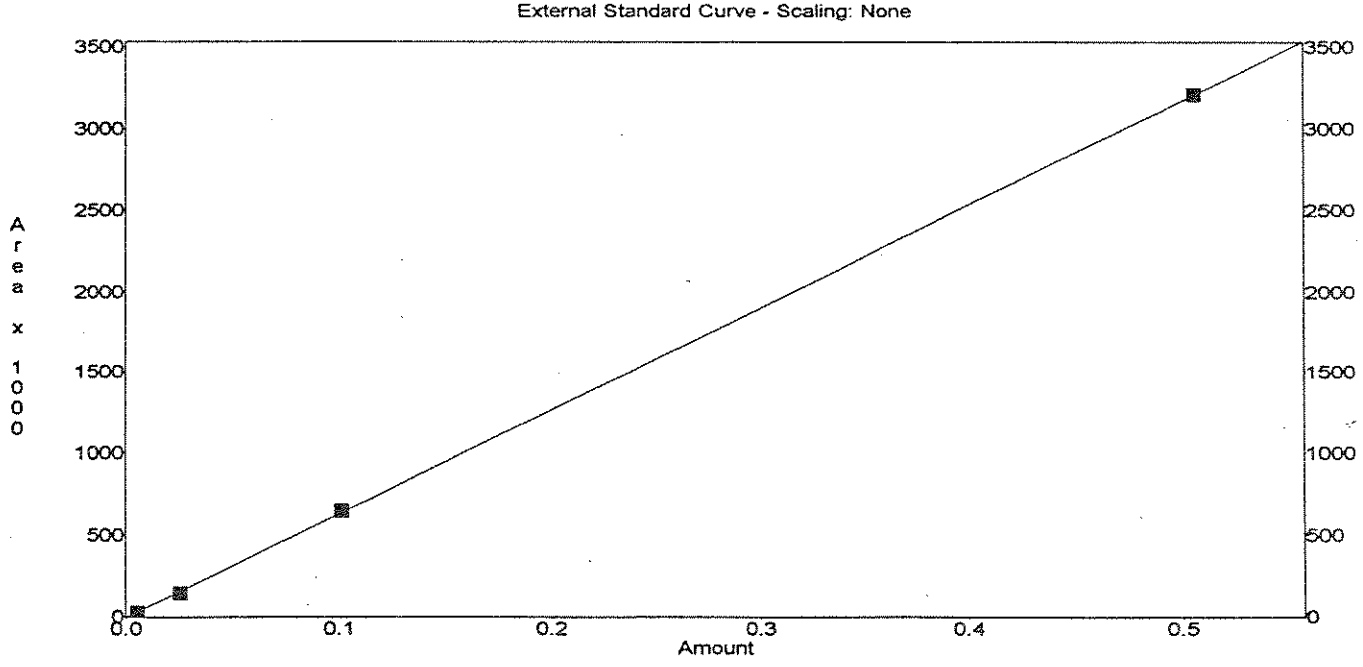
Method : C:\LABQUEST\METHODS\L1265.MET * - Replicate Not Used
Printed : Dec 19, 1995 13:32:34
Channel : A
Peak : FR12

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	25590	0.0058	2.267e-007	25590					0	0
2	145610	0.0253	1.738e-007	145610					0	0
3	650092	0.1012	1.557e-007	650092					0	0
4	3214521	0.506	1.574e-007	3214521					0	0

Average RF: 1.78371e-007
RF StdDev: 3.32012e-008
RF %RSD: 18.6136

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.574e-007 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:39
Channel : A
Peak : VC

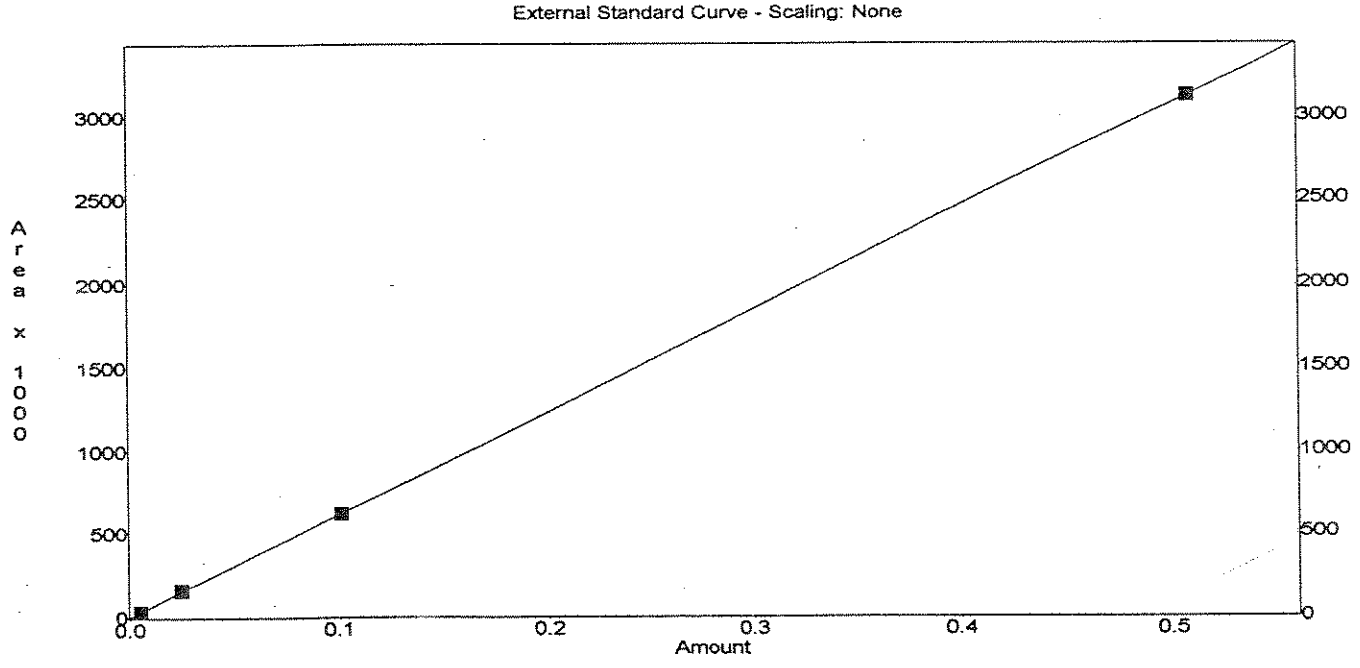
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	32587	0.0056	1.718e-007	32587					0	
2	159445	0.0254	1.593e-007	159445					0	
3	621371	0.1016	1.635e-007	621371					0	0
4	3126889	0.508	1.625e-007	3126889					0	0

Average RF: 1.64281e-007
RF StdDev: 5.35298e-009
RF %RSD: 3.25844

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.625e-007 x Area + 0.000e+000
R^2 = 1.0000



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:40
Channel : A
Peak : CLET

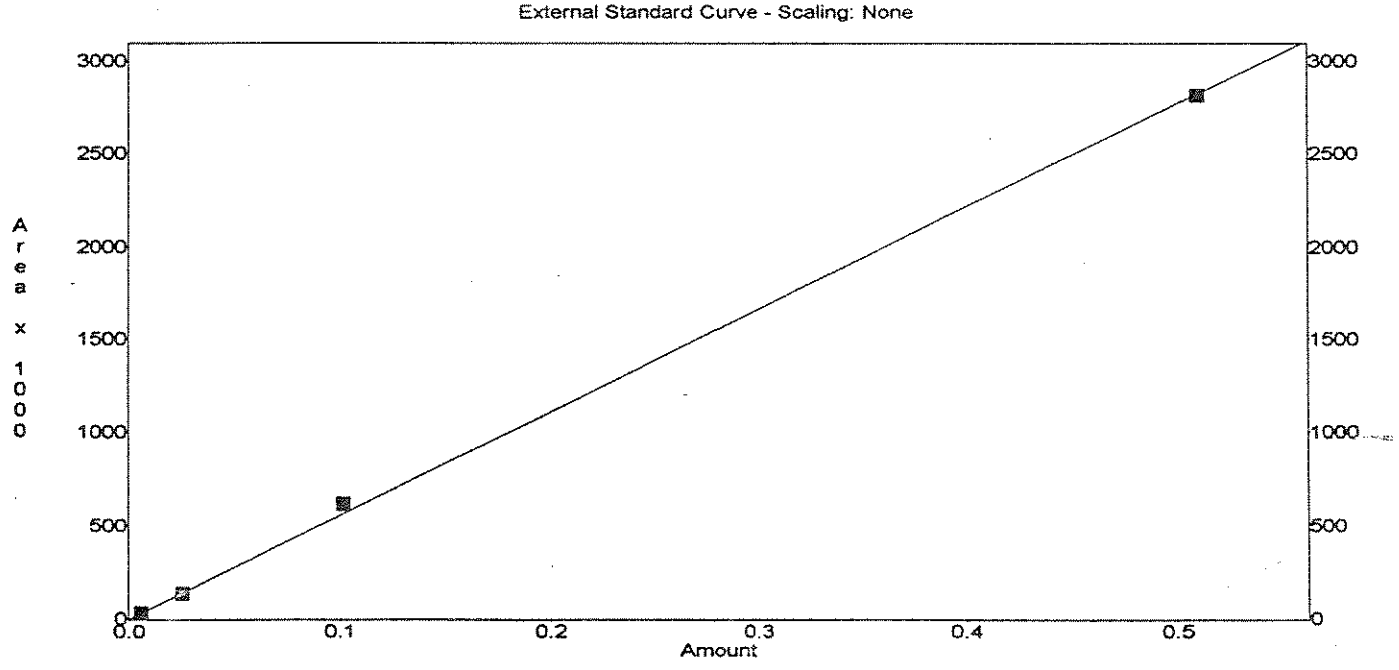
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	32501	0.006	1.846e-007	32501					0	0
2	137204	0.0255	1.859e-007	137204					0	0
3	617411	0.102	1.652e-007	617411					0	0
4	2816386	0.51	1.811e-007	2816386					0	0

Average RF: 1.79189e-007
RF StdDev: 9.5386e-009
RF %RSD: 5.32321

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.804e-007 x Area + 0.000e+000
R^2 = 0.9994



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:42
Channel : A
Peak : FR11

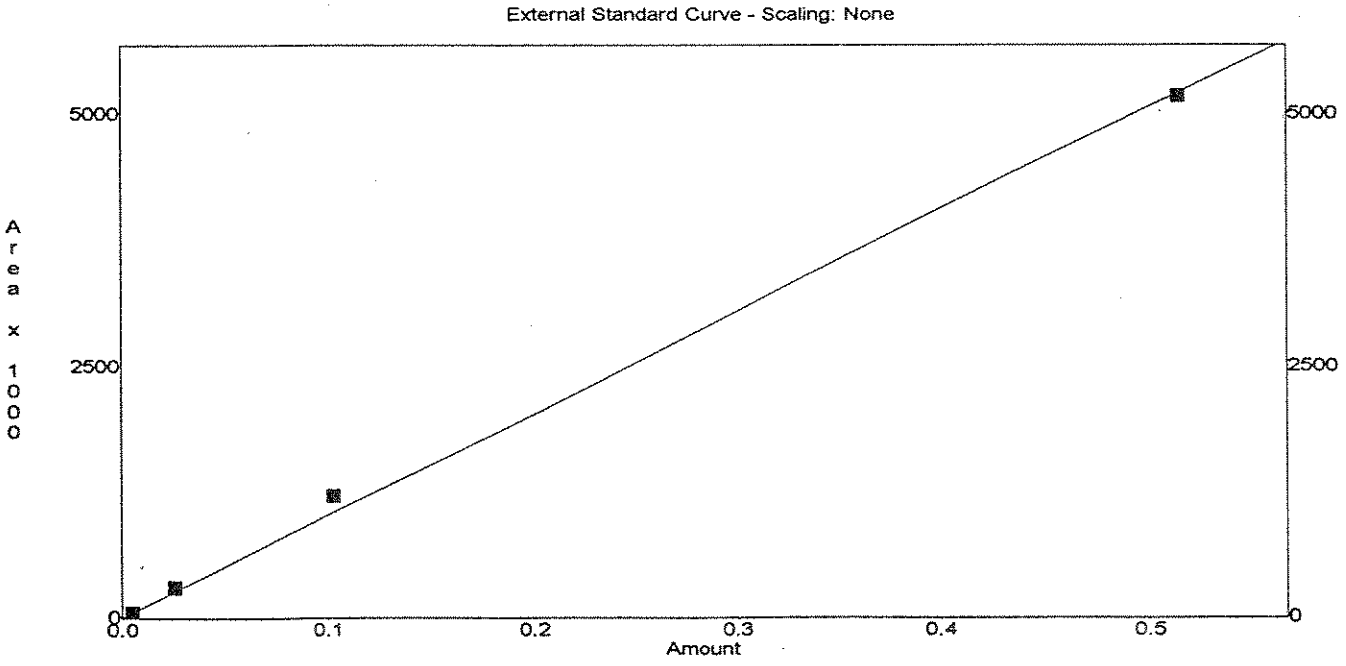
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	48246	0.00514	1.065e-007	48246					0	
2	295624	0.0257	8.693e-008	295624					0	
3	1203788	0.1028	8.54e-008	1203788					0	
4	5175559	0.514	9.931e-008	5175559					0	

Average RF: 9.45453e-008
RF StdDev: 1.01345e-008
RF %RSD: 10.7192

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 9.856e-008 x Area + 0.000e+000
R^2 = 0.9984



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:43
Channel : A
Peak : DCE11+FR113

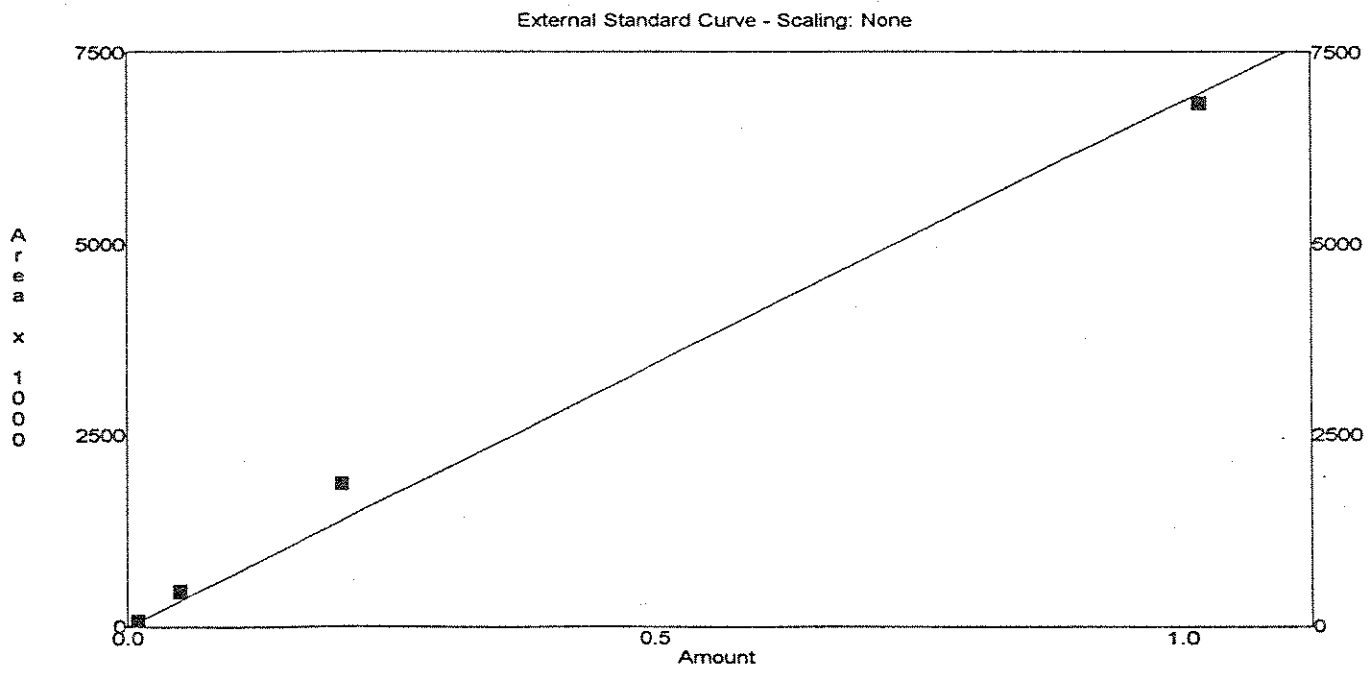
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	73416	0.01017	1.385e-007	73416					0	0
2	457719	0.0509	1.112e-007	457719					0	0
3	1867056	0.2034	1.089e-007	1867056					0	0
4	6841531	1.017	1.487e-007	6841531					0	0

Average RF: 1.2683e-007
RF StdDev: 1.98085e-008
RF %RSD: 15.6181

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.458e-007 x Area + 0.000e+000
R^2 = 0.9920



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:44
Channel : A
Peak : DCM

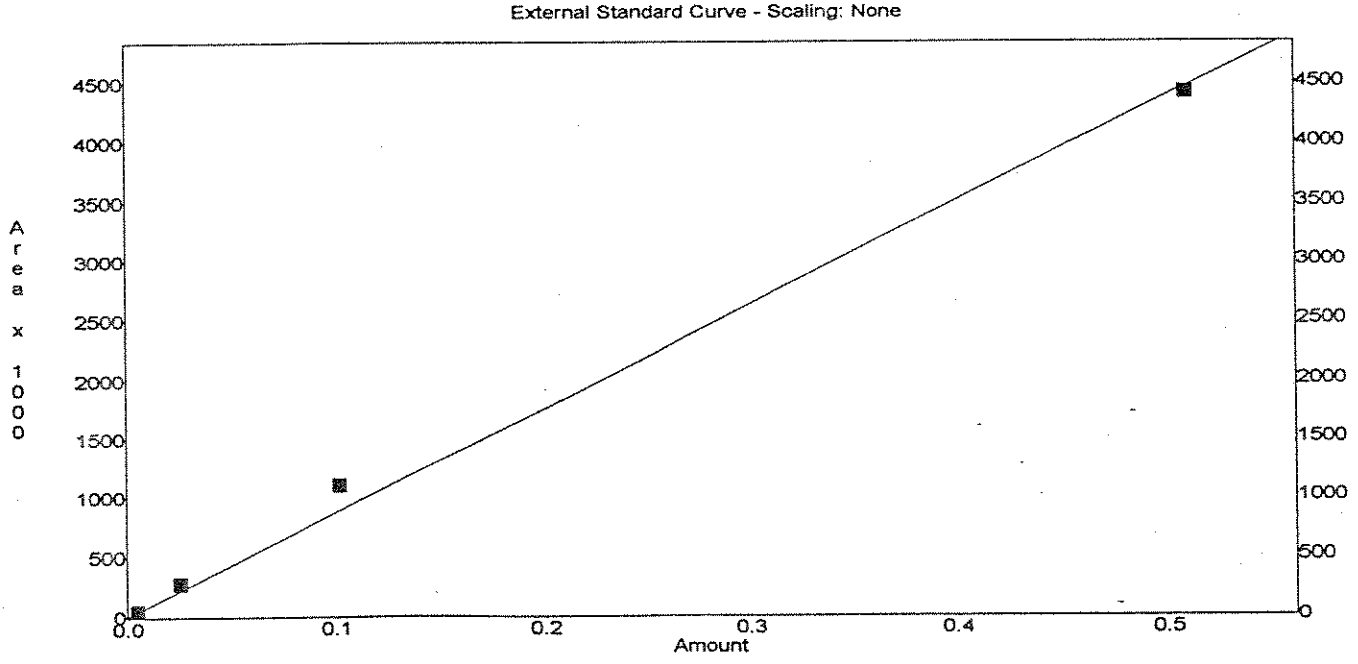
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	45218	0.00509	1.126e-007	45218					0	
2	276908	0.0255	9.209e-008	276908					0	
3	1103966	0.1018	9.221e-008	1103966					0	
4	4415298	0.509	1.153e-007	4415298					0	

Average RF: 1.03037e-007
RF StdDev: 1.26193e-008
RF %RSD: 12.2474

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.138e-007 x Area + 0.000e+000
R^2 = 0.9961



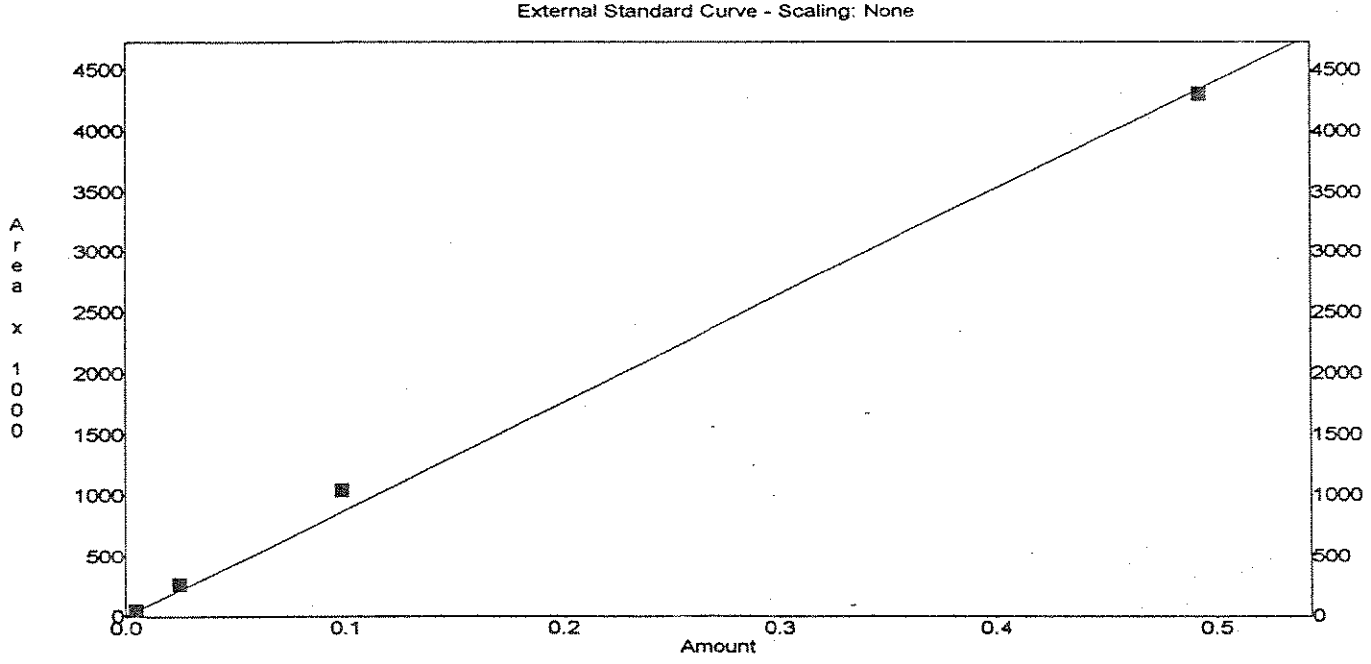
Method : C:\LABQUEST\METHODS\L1265.MET * - Replicate Not Used
Printed : Dec 19, 1995 13:32:45
Channel : A
Peak : DCE12T

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	45654	0.00493	1.08e-007	45654					0	0
2	266412	0.02465	9.253e-008	266412					0	0
3	1046683	0.0986	9.42e-008	1046683					0	0
4	4306722	0.493	1.145e-007	4306722					0	0

Average RF: 1.02297e-007
RF StdDev: 1.06708e-008
RF %RSD: 10.4313

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.133e-007 x Area + 0.000e+000
R^2 = 0.9971



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:46
Channel : A
Peak : DCA11

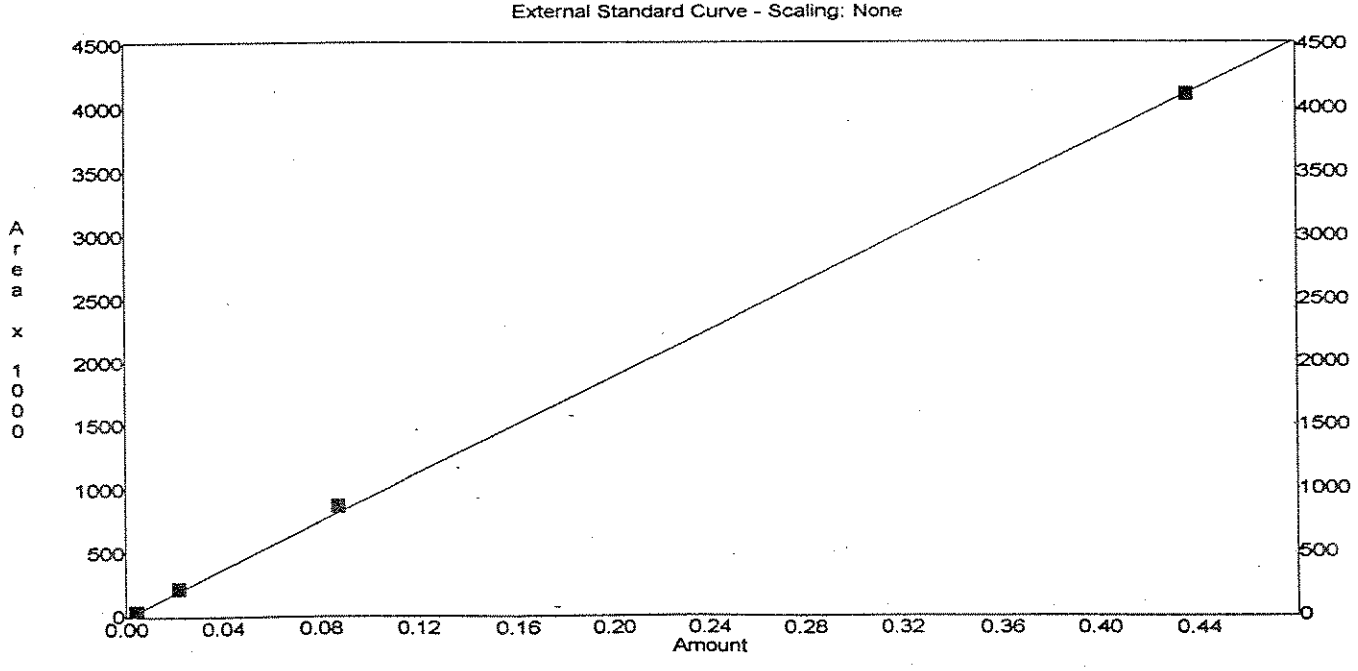
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	35739	0.00436	1.22e-007	35739					0	0
2	218563	0.0218	9.974e-008	218563					0	0
3	872080	0.0872	9.999e-008	872080					0	
4	4110178	0.436	1.061e-007	4110178					0	

Average RF: 1.06952e-007
RF StdDev: 1.0449e-008
RF %RSD: 9.76981

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.058e-007 x Area + 0.000e+000
R^2 = 0.9998



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:48
Channel : A
Peak : DCE12C

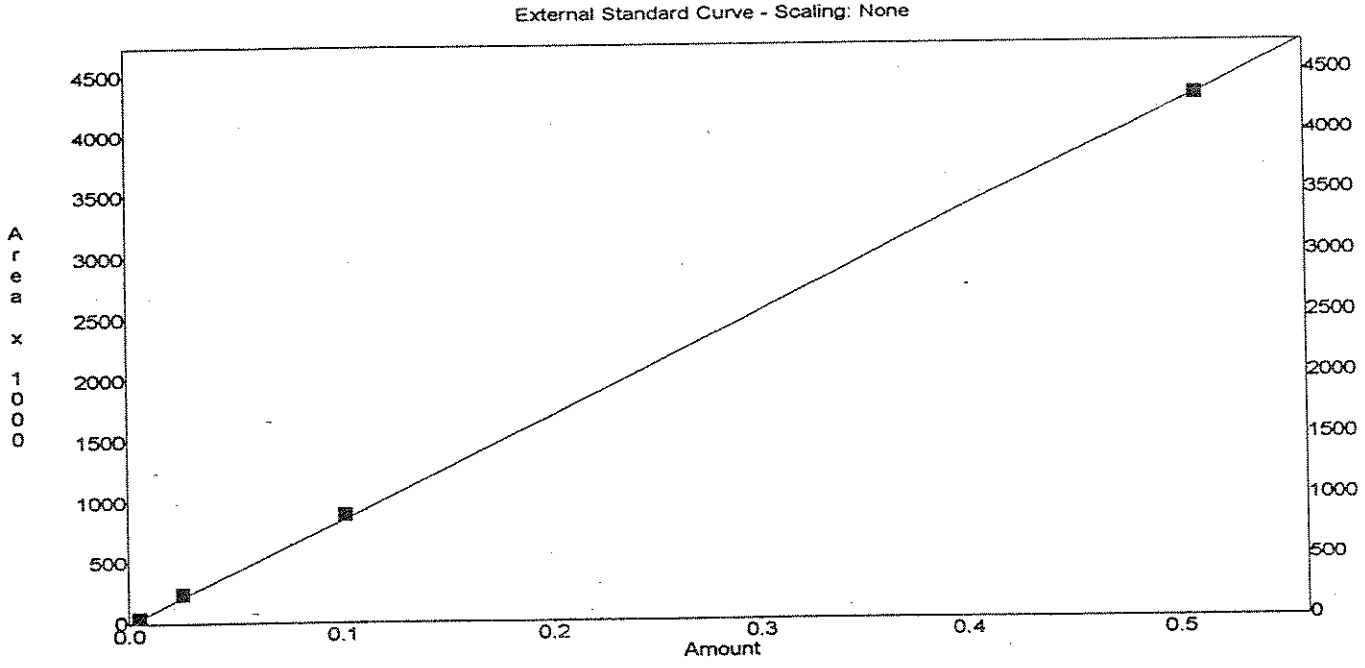
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	38782	0.0051	1.315e-007	38782					0	0
2	234539	0.0255	1.087e-007	234539					0	0
3	896776	0.102	1.137e-007	896776					0	0
4	4303078	0.51	1.185e-007	4303078					0	0

Average RF: 1.18122e-007
RF StdDev: 9.77661e-009
RF %RSD: 8.2767

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.183e-007 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:49
Channel : A
Peak : CLFM

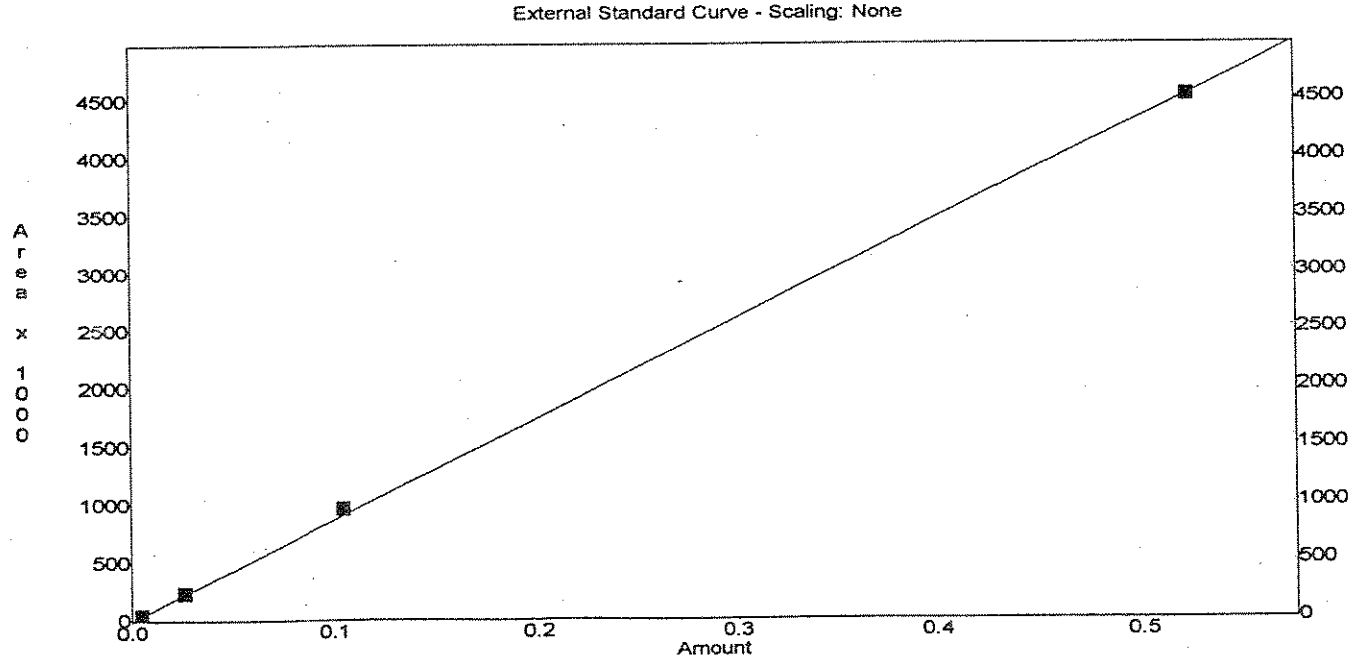
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	40878	0.00523	1.279e-007	40878					0	
2	229604	0.0265	1.154e-007	229604					0	0
3	958512	0.105	1.095e-007	958512					0	0
4	4527473	0.523	1.155e-007	4527473					0	-

Average RF: 1.17105e-007
RF StdDev: 7.74595e-009
RF %RSD: 6.61452

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.153e-007 x Area + 0.000e+000
R^2 = 0.9998



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:50
Channel : A
Peak : TCA111

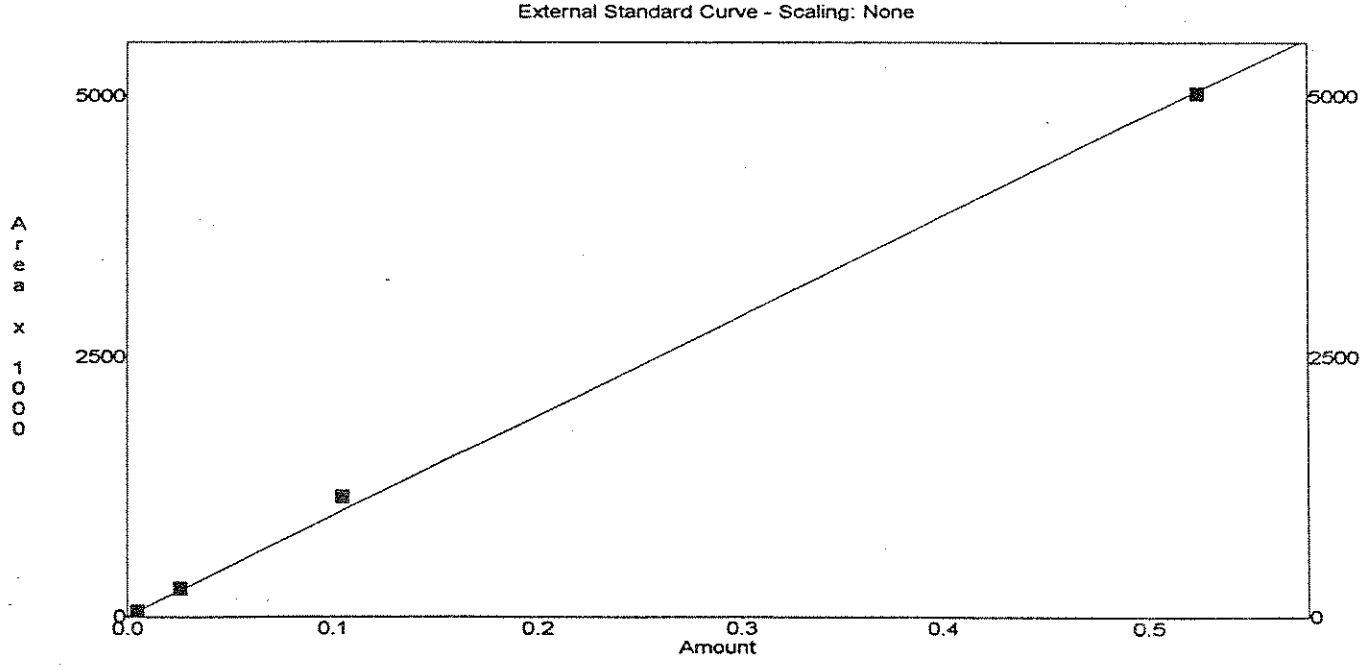
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	47592	0.00524	1.101e-007	47592					0	0
2	267753	0.0262	9.785e-008	267753					0	0
3	1142718	0.1048	9.171e-008	1142718					0	0
4	5031780	0.524	1.041e-007	5031780					0	0

Average RF: 1.00951e-007
RF StdDev: 7.93495e-009
RF %RSD: 7.86022

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.035e-007 x Area + 0.000e+000
R^2 = 0.9989



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:52
Channel : A
Peak : CBTC

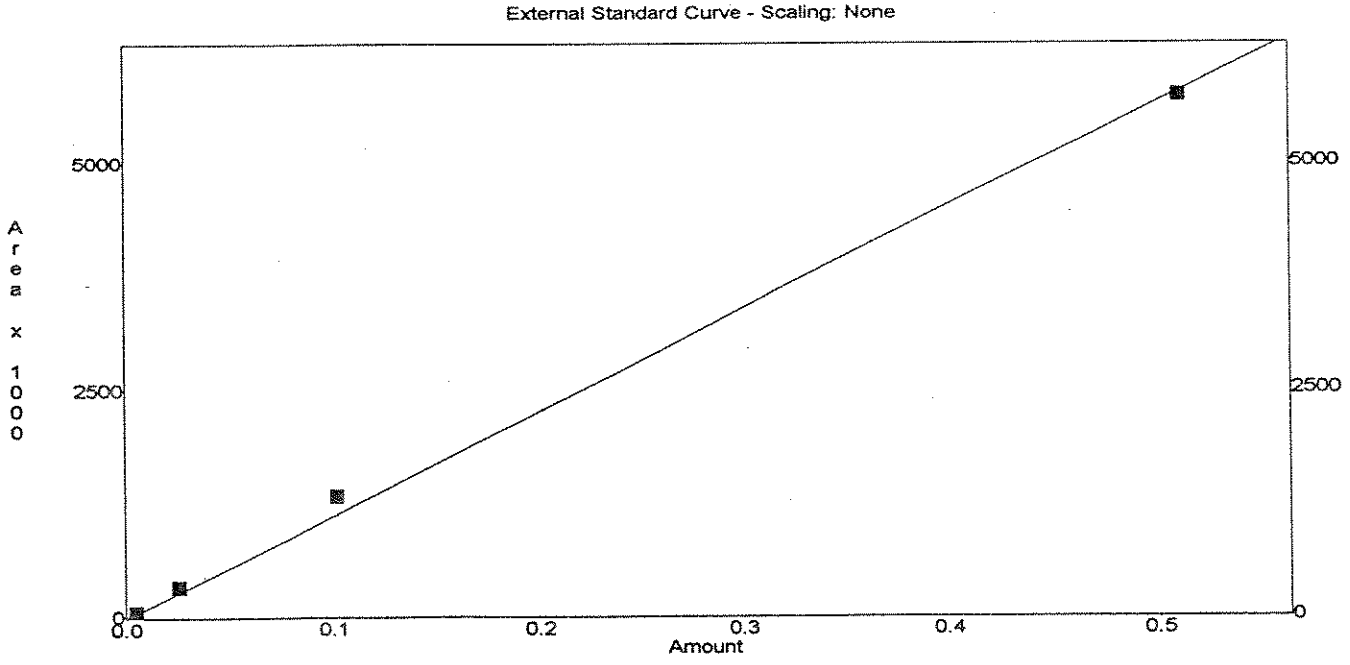
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	61270	0.0051	8.324e-008	61270					0	
2	339566	0.0255	7.51e-008	339566					0	
3	1340697	0.102	7.608e-008	1340697					0	
4	5732766	0.51	8.896e-008	5732766					0	

Average RF: 8.08441e-008
RF StdDev: 6.51611e-009
RF %RSD: 8.06009

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 8.825e-008 x Area + 0.000e+000
R^2 = 0.9982



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:53
Channel : A
Peak : DCA12

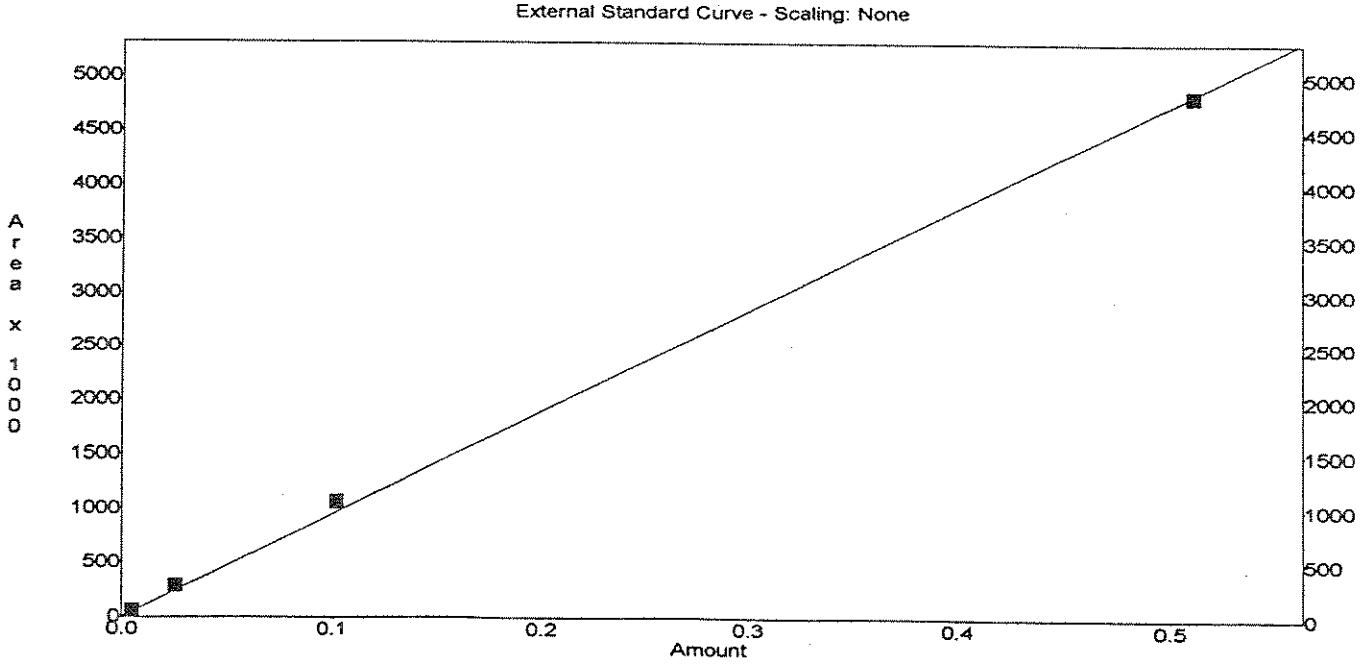
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	56238	0.00511	9.086e-008	56238					0	0
2	286505	0.0256	8.935e-008	286505					0	0
3	1064846	0.1022	9.598e-008	1064846					0	0
4	4835332	0.511	1.057e-007	4835332					0	0

Average RF: 9.54683e-008
RF StdDev: 7.3745e-009
RF %RSD: 7.72455

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.052e-007 x Area + 0.000e+000
R^2 = 0.9993



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:54
Channel : A
Peak : TCE

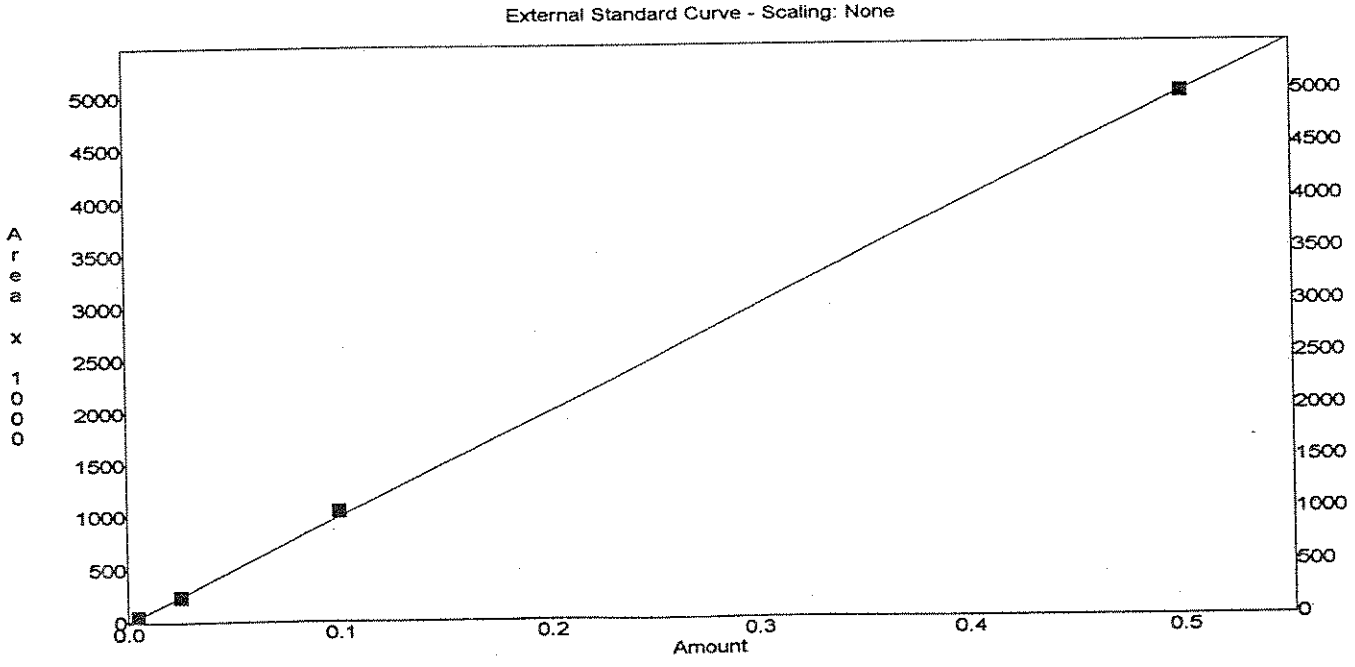
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	43825	0.00501	1.143e-007	43825					0	
2	235069	0.0251	1.068e-007	235069					0	
3	1045025	0.1002	9.588e-008	1045025					0	
4	4990343	0.501	1.004e-007	4990343					0	

Average RF: 1.04343e-007
RF StdDev: 8.01266e-009
RF %RSD: 7.67914

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.002e-007 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:55
Channel : A
Peak : DCPE13C

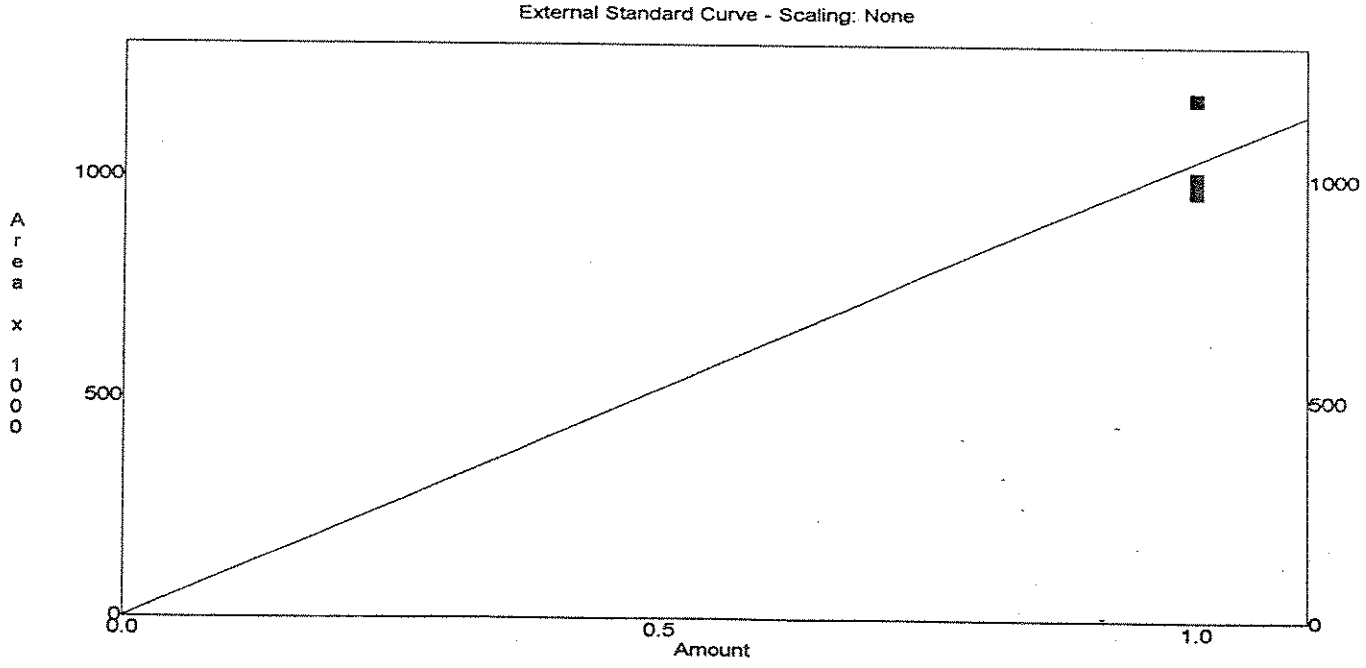
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	993414	1	1.007e-006	993414					0	0
2	1004062	1	9.96e-007	1004062					0	0
3	971597	1	1.029e-006	971597					0	0
4	1183976	1	8.446e-007	1183976					0	0

Average RF: 9.69107e-007
RF StdDev: 8.41485e-008
RF %RSD: 8.68309

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 9.567e-007 x Area + 0.000e+000
R^2 = 0.0000



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:57
Channel : A
Peak : TCA112

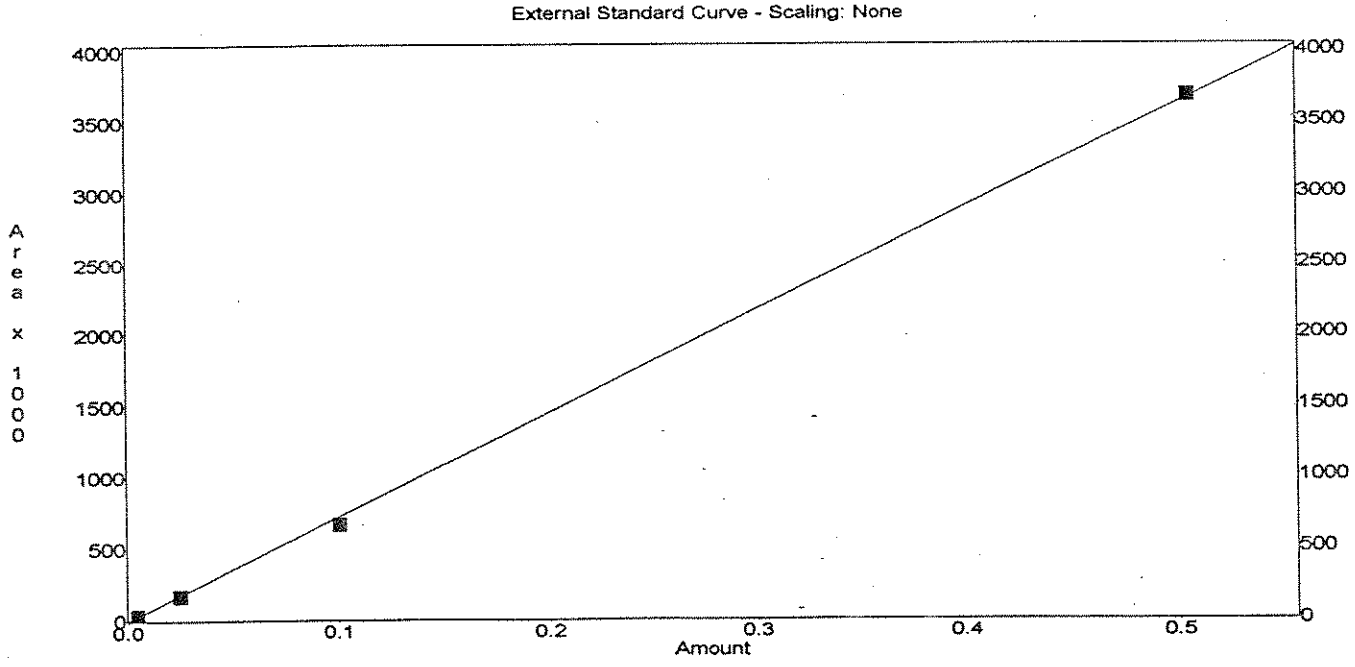
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	32667	0.00505	1.546e-007	32667					0	
2	168523	0.0253	1.501e-007	168523					0	0
3	666464	0.101	1.515e-007	666464					0	0
4	3680732	0.505	1.372e-007	3680732					0	

Average RF: 1.48366e-007
RF StdDev: 7.67217e-009
RF %RSD: 5.17112

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.377e-007 x Area + 0.000e+000
R^2 = 0.9994



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:58
Channel : A
Peak : PCE

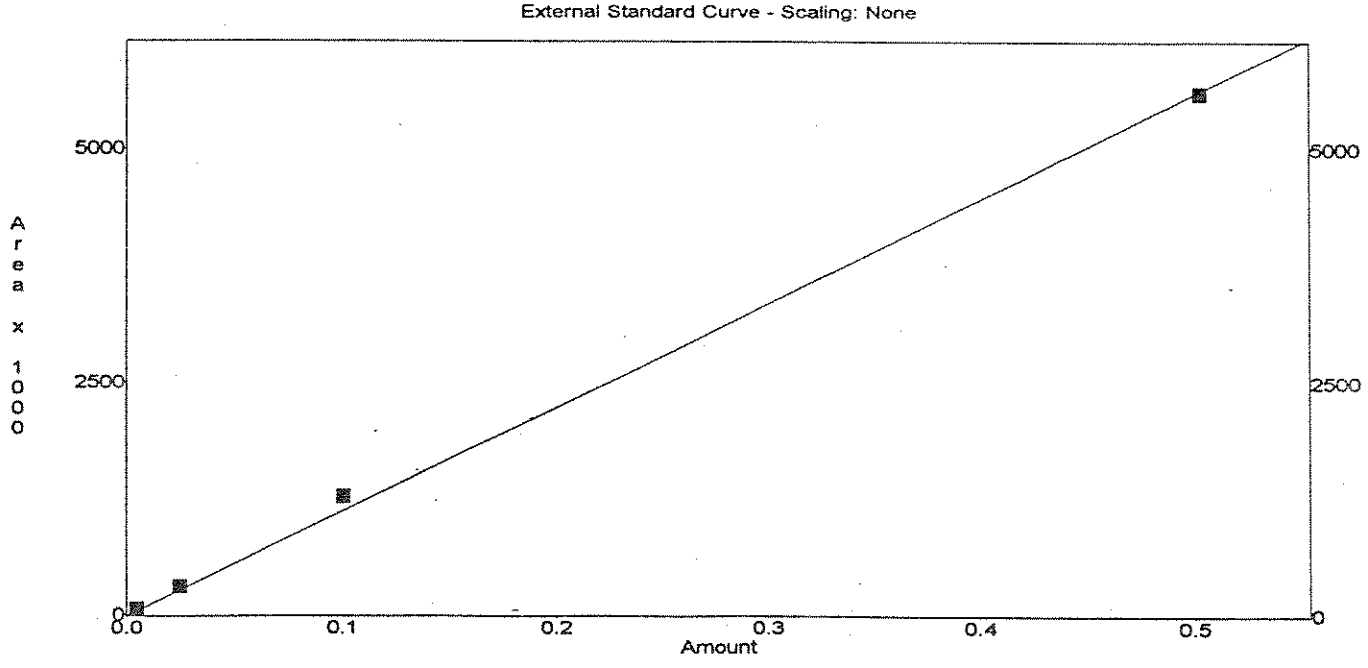
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	72972	0.00503	6.893e-008	72972					0	0
2	312223	0.02515	8.055e-008	312223					0	0
3	1263085	0.1006	7.965e-008	1263085					0	0
4	5587397	0.503	9.002e-008	5587397					0	0

Average RF: 7.9788e-008
RF StdDev: 8.62694e-009
RF %RSD: 10.8123

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 8.949e-008 x Area + 0.000e+000
R^2 = 0.9989



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:32:59
Channel : A
Peak : CFB13

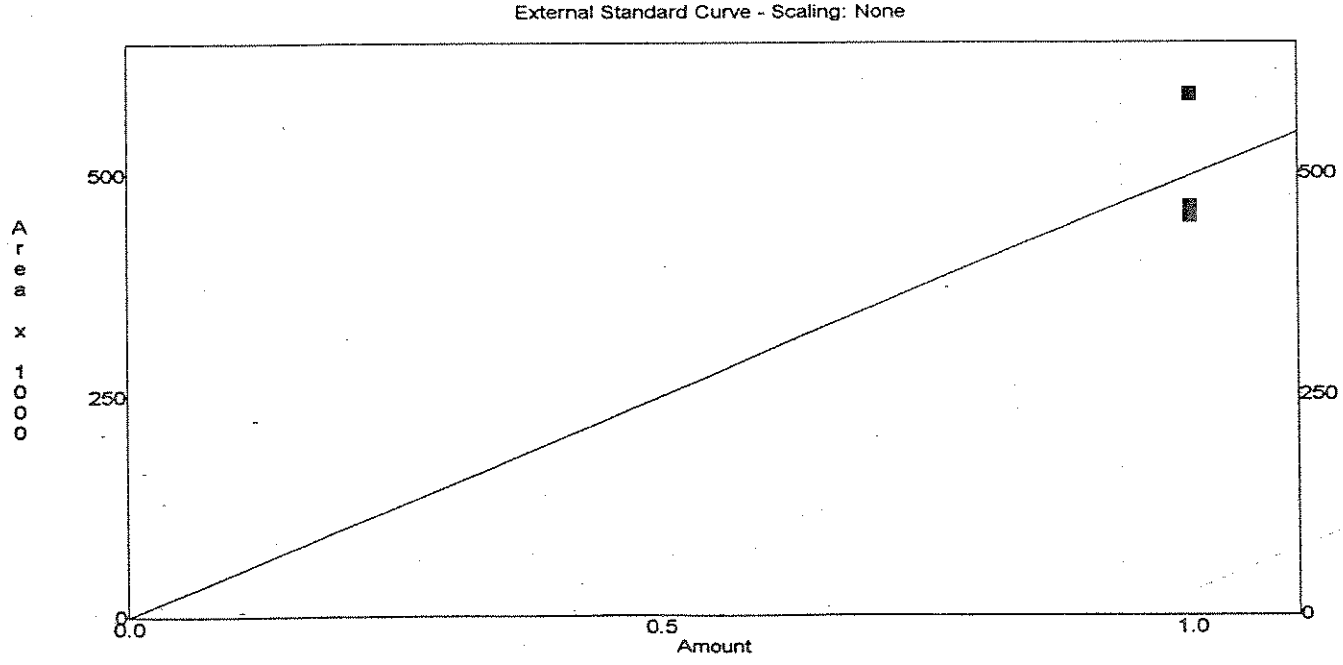
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	451045	1	2.217e-006	451045					0	
2	462185	1	2.164e-006	462185					0	
3	461916	1	2.165e-006	461916					0	
4	590506	1	1.693e-006	590506					0	

Average RF: 2.05977e-006
RF StdDev: 2.45468e-007
RF %RSD: 11.9173

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 2.008e-006 x Area + 0.000e+000
R^2 = 0.0000



Method : C:\LABQUEST\METHODS\L1265.MET
Printed : Dec 19, 1995 13:33:00
Channel : A
Peak : PCA1112

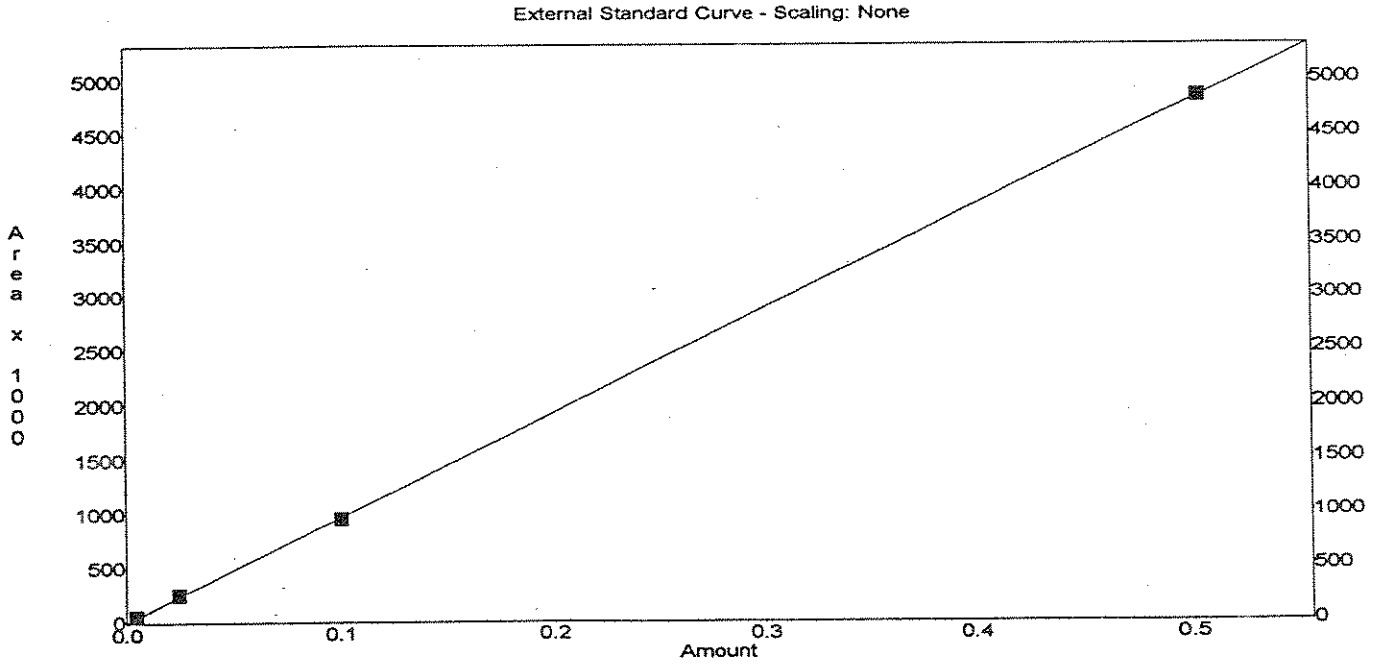
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	55140	0.00504	9.14e-008	55140					0	0
2	252900	0.0252	9.964e-008	252900					0	0
3	950117	0.1008	1.061e-007	950117					0	0
4	4837092	0.504	1.042e-007	4837092					0	0

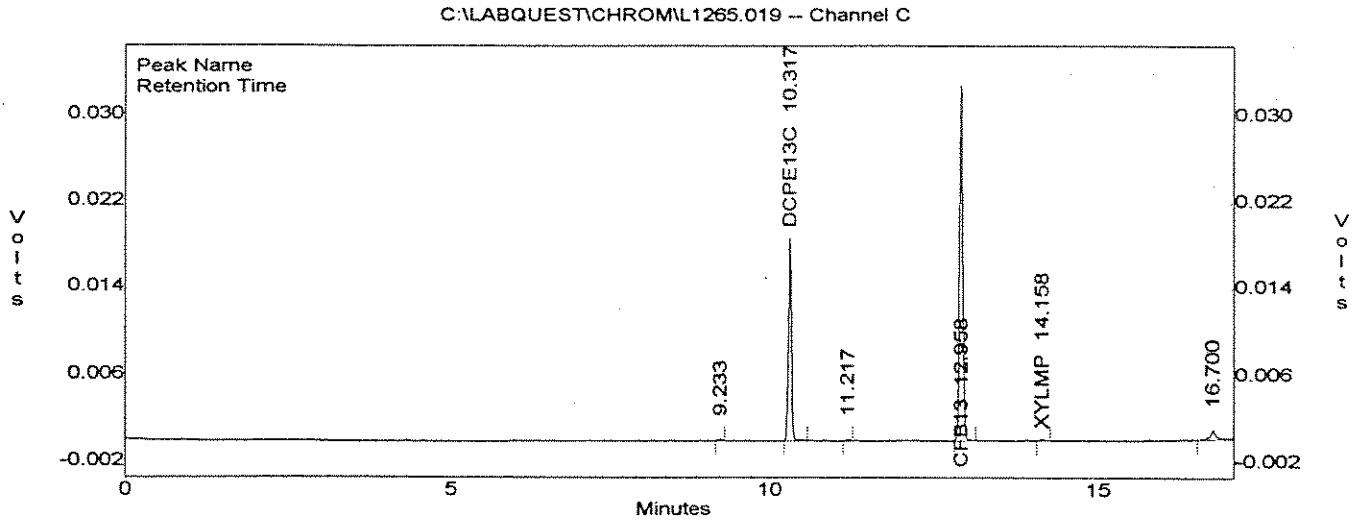
Average RF: 1.00334e-007
RF StdDev: 6.53937e-009
RF %RSD: 6.51762

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.043e-007 x Area + 0.000e+000
R^2 = 1.0000



Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.019
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SYSTEM BLANK
Acquired : Dec 19, 1995 14:25:49
Printed : Dec 19, 1995 14:43:15
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
1		9.233	558	0.000	0
--	TCE	9.520	0	0.000	0
2	DCPE13C	10.317	64560	998.420	0
--	TCA112	11.110	0	0.000	0
3		11.217	614	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
4	CFB13	12.958	119293	1013.099	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
5	XYLMP	14.158	559	0.396	0
--	XYLO	14.830	0	0.000	0
6		16.700	5370	0.000	0

Totals :

	190956	2011.915

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-38-5A

Time Sampled: 1445

Date Sampled: 12-19-95

Probe Depth (ft): 5

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Air Temp (F): 75

Ground Surface: Asphalt gravel

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Purge Volume (liters): ~~0.25~~ 80ml.

Purge Time: 2 sec

Notes: Purge Test 80ml - ~~0.25l~~ - 1

Max. Purge Vacuum (in. Hg): 16

Equilibrium Time: 1 sec

Sample Volume (ml): 20

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-19-95 Time: 1448

Volume Analyzed (ml): 1.0

Time Injected: 1449 Loop #: 8

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	1.12				
1,1,2-Trichloroethane	<1				

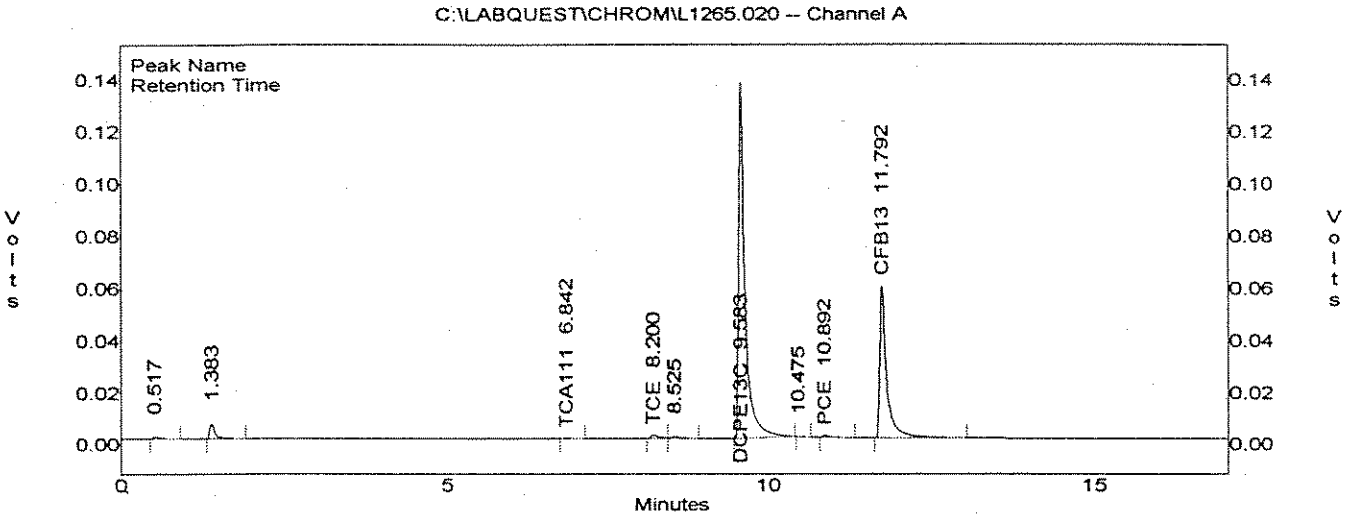
Surrogate Recovery ELCD: 90 89 % PID: 96 96 % FID: 100 102 %

Note: Peak on FID only at 5.78 minutes; approximately the same size as 0.5 µg injection of 111 tca.

Not a Ketone ~~as~~ may be an alcohol, straight chain hydrocarbon. ~~Analyze duplicate ← No significant peak~~ 5.78

BGPAA 0207

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.020
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5A
Acquired : Dec 19, 1995 14:49:02
Printed : Dec 19, 1995 15:07:45
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		0.517	6641	0.000	0
2		1.383	35708	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
3	TCA111	6.842	2408	0.249	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
4	TCE	8.200	11365	1.139	0
5		8.525	6800	0.000	0
6	DCPE13C	9.583	939746	899.097	0
7		10.475	577	0.000	0
--	TCA112	10.760	0	0.000	0
8	PCE	10.892	6335	0.567	0
9	CFB13	11.792	441799	886.942	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

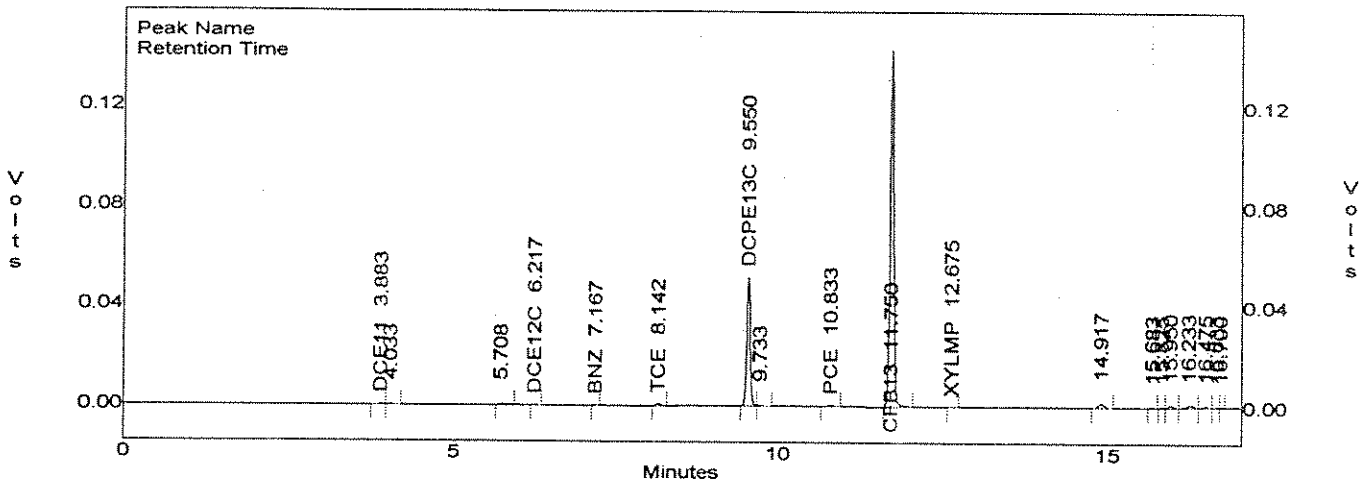
Totals :

	1451382	1787.995

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.020
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5A
Acquired : Dec 19, 1995 14:49:02
Printed : Dec 19, 1995 15:07:48
User : PAS

C:\LABQUEST\CHROM\L1265.020 -- Channel B



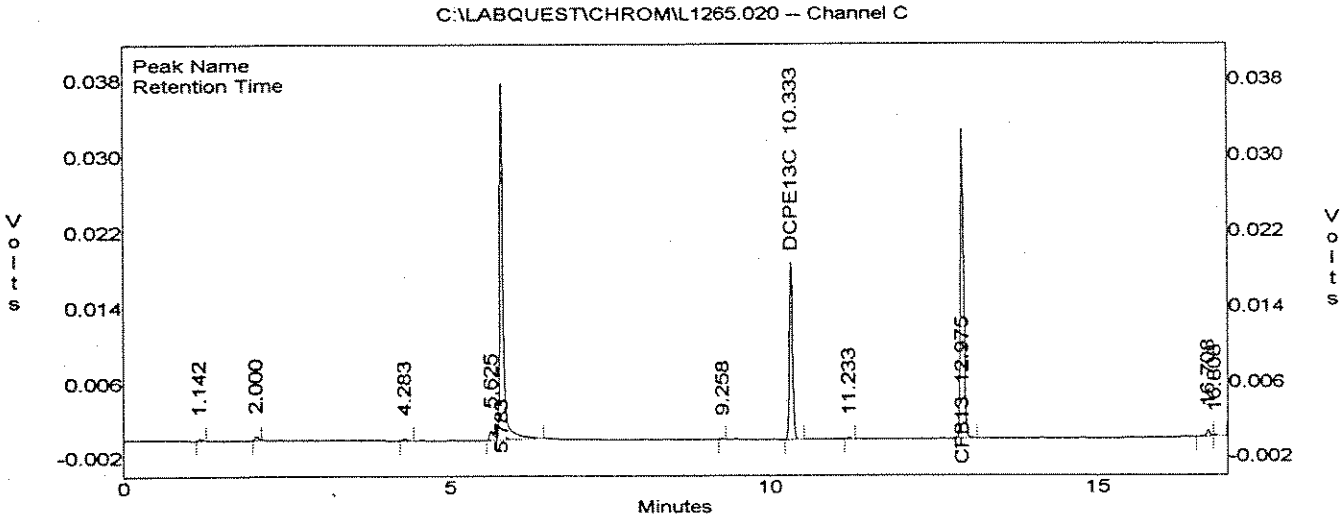
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.883	1966	~~0.675~~ Not on Hall PS	0
2		4.033	1716	0.000	0
--	DCE12T	4.910	0	0.000	0
3		5.708	2576	0.000	0
4	DCE12C	6.217	597	0.182	0
5	BNZ	7.167	581	0.085	0
6	TCE	8.142	4151	1.121 ✓	0
7	DCPE13C	9.550	197846	960.226	0
8		9.733	1978	0.000	0
--	TOL	10.050	0	0.000	0
9	PCE	10.833	3138	~~1.045~~ <1 on Hall PS	0
10	CFB13	11.750	585836	961.859	0
--	EB	12.440	0	0.000	0
11	XYLMP	12.675	509	0.088	0
--	XYLO	13.320	0	0.000	0
12		14.917	11558	0.000	0
13		15.683	1226	0.000	0
14		15.825	585	0.000	0
15		15.950	4400	0.000	0
16		16.233	6837	0.000	0
17		16.475	2981	0.000	0
18		16.633	825	0.000	0
19		16.700	533	0.000	0

Totals :

	829847	1925.281

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.020
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5A
Acquired : Dec 19, 1995 14:49:02
Printed : Dec 19, 1995 15:07:50
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.142	837	0.000	0
2		2.000	1848	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
3		4.283	972	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
4		5.625	4488	0.000	0
5		5.783	150524	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
6		9.258	500	0.000	0
--	TCE	9.520	0	0.000	0
7	DCPE13C	10.333	64640	999.653	0
--	TCA112	11.110	0	0.000	0
8		11.233	542	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
9	CFB13	12.975	120174	1020.581	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
10		16.708	2716	0.000	0
11		16.808	642	0.000	0

Continued...

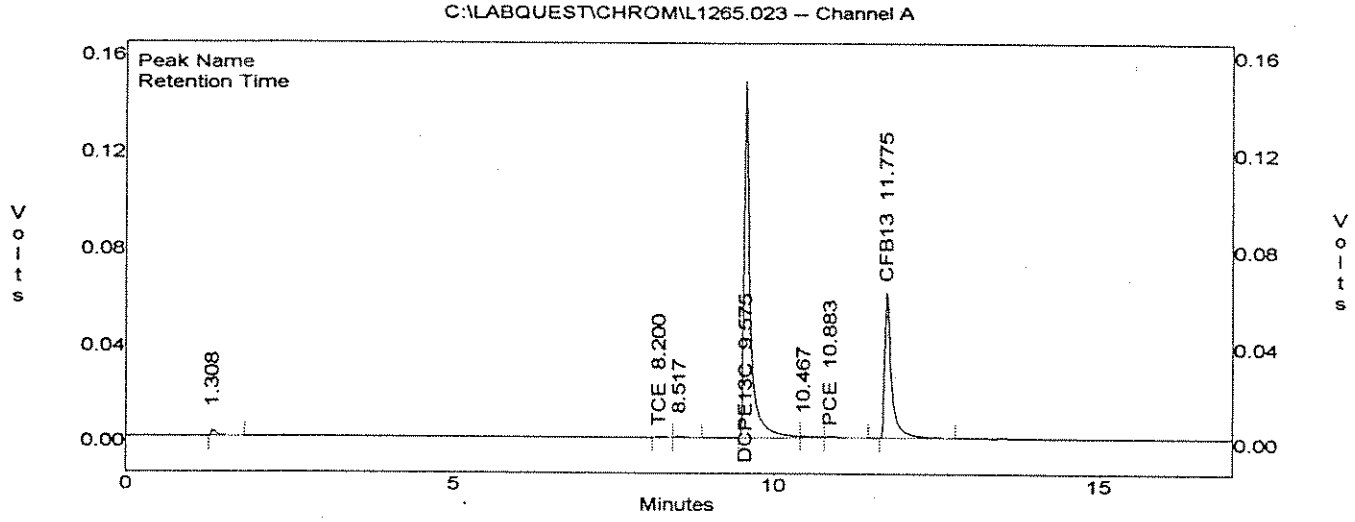
rile : C:\LABQUEST\CHROM\L1265.020
Method : C:\LABQUEST\METHODS\L1265.MET
ample ID : SV-38-5A
uired : Dec 19, 1995 14:49:02
..inted : Dec 19, 1995 15:07:52
Jser : PAS

hannel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
Totals :					
			347888	2020.234	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.023
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5A DUPLICATE
Acquired : Dec 19, 1995 16:08:42
Printed : Dec 19, 1995 16:26:02
User : PAS

Not Reported
PS



Channel A Results

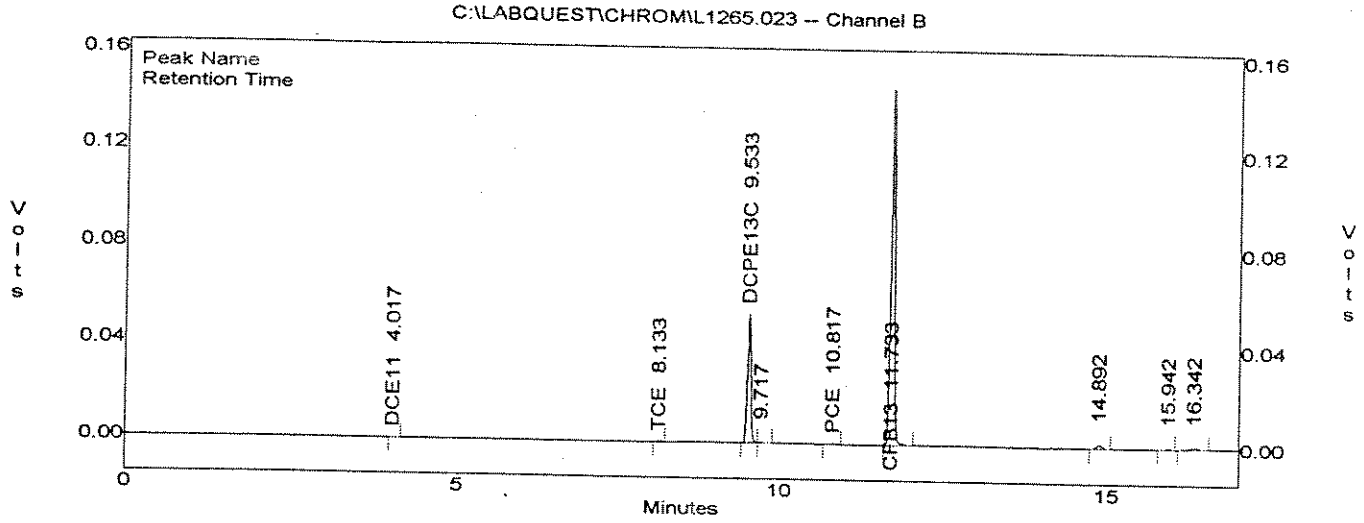
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.308	14889	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.200	3391	0.340	0
3		8.517	5501	0.000	0
4	DCPE13C	9.575	1022257	978.039	0
5		10.467	11196	0.000	0
--	TCA112	10.760	0	0.000	0
6	PCE	10.883	10496	0.939	0
7	CFB13	11.775	455858	915.168	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

1523591 1894.486

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

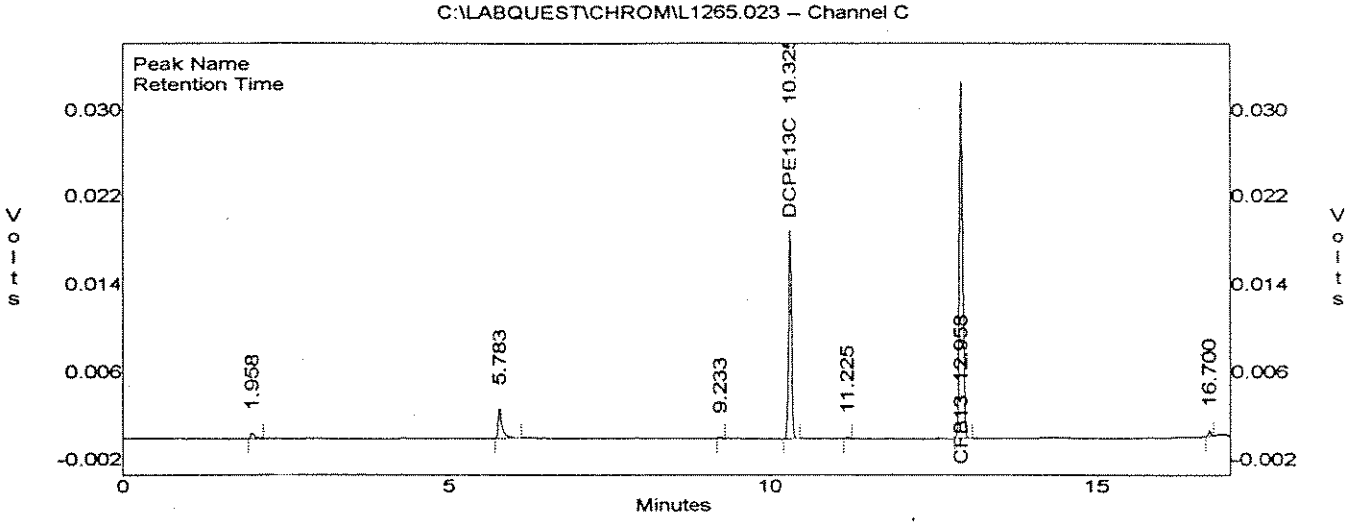
File : C:\LABQUEST\CHROM\L1265.023
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5A DUPLICATE
Acquired : Dec 19, 1995 16:08:42
Printed : Dec 19, 1995 16:26:05
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.017	737	0.253	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
2	TCE	8.133	1156	0.312	0
3	DCPE13C	9.533	198780	964.758	0
4		9.717	1815	0.000	0
--	TOL	10.050	0	0.000	0
5	PCE	10.817	2214	0.737	0
6	CFB13	11.733	595138	977.132	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
7		14.892	10539	0.000	0
8		15.942	1090	0.000	0
9		16.342	7414	0.000	0
Totals :			818885	1943.192	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.023
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5A DUPLICATE
Acquired : Dec 19, 1995 16:08:42
Printed : Dec 19, 1995 16:26:07
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.958	2223	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.783	11939	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.233	524	0.000	0
--	TCE	9.520	0	0.000	0
4	DCPE13C	10.325	65774	1017.194	0
--	TCA112	11.110	0	0.000	0
5		11.225	556	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
6	CFB13	12.958	119452	1014.449	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
7		16.700	1562	0.000	0

Totals :

	202033	2031.643

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-38-SB

Probe Depth (ft): 5

Time Sampled: 1513

Sampled by: BV

Date Sampled: 12-19-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt gravel

Air Temp (F): 75

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): ~~240~~ 80

Max. Purge Vacuum (in. Hg): 15

Purge Volume (liters): ~~0.75~~ 240ml

Equilibrium Time: 2 sec

Purge Time: 3 sec

Sample Volume (ml): 20

Notes: Purge Test 240ml - ②

Syringe ID: a: ____ b: ____

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

Date: 12-19-95 Time: 1519

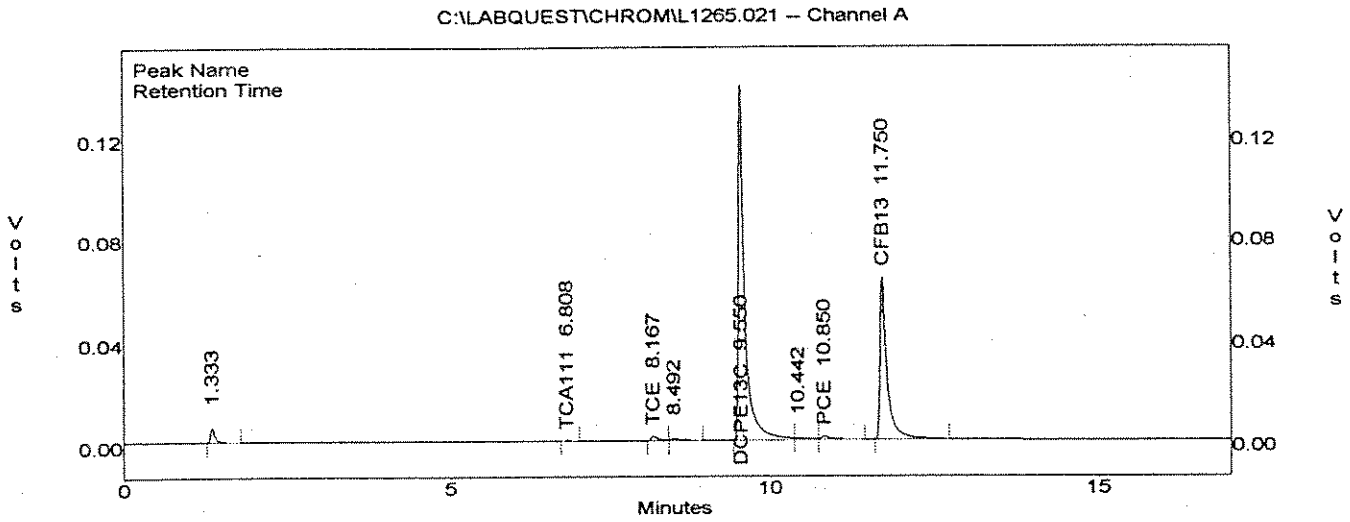
Time Injected: ____ Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	1.45	✓
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	1.32	✓			
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 93 93 % PID: 97 98 % FID: 101 101 %

Peak @ 5.76 minute much smaller

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.021
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5B
Acquired : Dec 19, 1995 15:20:46
Printed : Dec 19, 1995 15:38:10
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.333	27910	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
2	TCA111	6.808	1380	0.143	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.167	13139	1.317	0
4		8.492	7231	0.000	0
5	DCPE13C	9.550	970087	928.126	0
6		10.442	11495	0.000	0
--	TCA112	10.760	0	0.000	0
7	PCE	10.850	16238	1.453	0
8	CFB13	11.750	462735	928.973	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1510219	1860.012	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.021
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5B
Acquired : Dec 19, 1995 15:20:46
Printed : Dec 19, 1995 15:38:13
User : PAS

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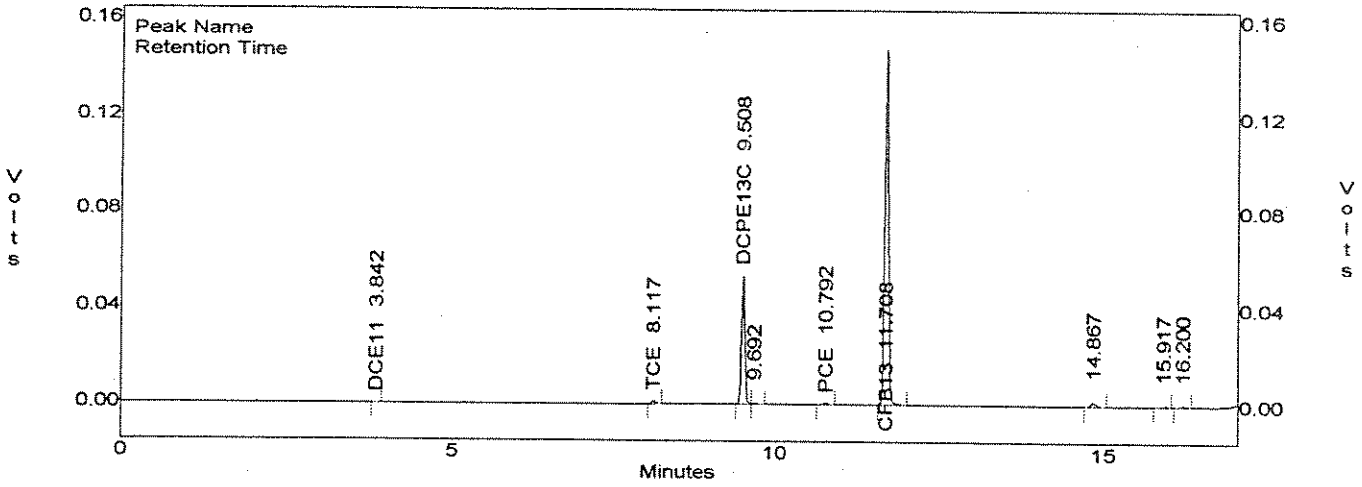
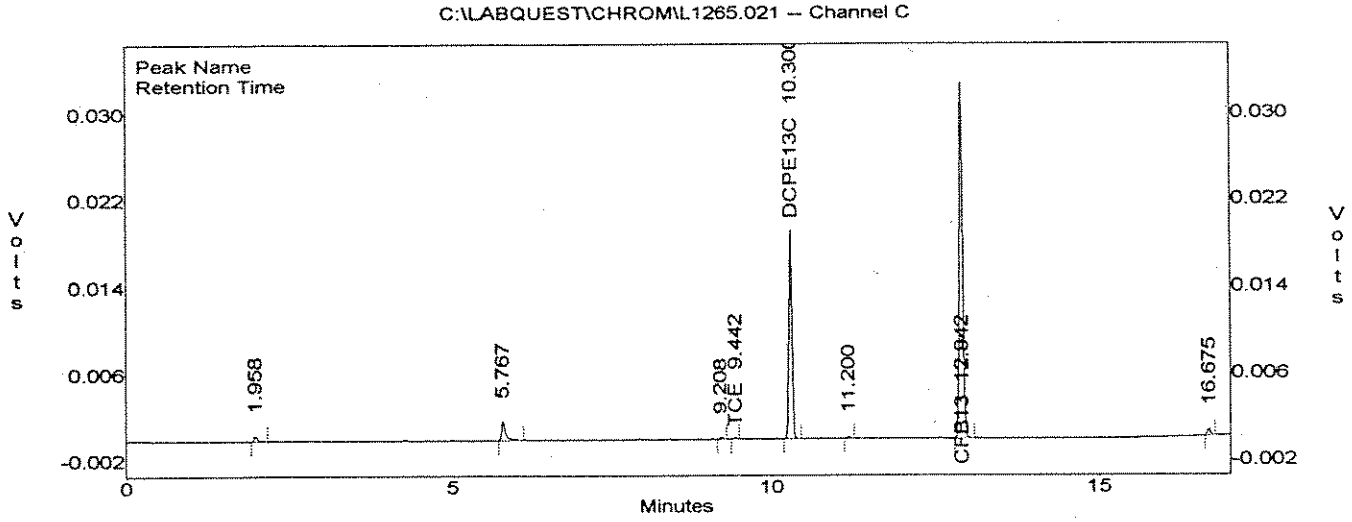


Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.842	551	~~0.189~~ Not on Hall ps	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
2	TCE	8.117	4850	1.309 ✓	0
3	DCPE13C	9.508	199849	969.947	0
4		9.692	1774	0.000	0
--	TOL	10.050	0	0.000	0
5	PCE	10.792	3418	1.138 ✓	0
6	CFB13	11.708	596814	979.885	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
7		14.867	10807	0.000	0
8		15.917	1011	0.000	0
9		16.200	923	0.000	0
Totals :			820000	1952.468	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.021
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5B
Acquired : Dec 19, 1995 15:20:46
Printed : Dec 19, 1995 15:38:15
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.958	1960	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.767	8066	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.208	562	0.000	0
4	TCE	9.442	509	1.818	0
5	DCPE13C	10.300	65115	1006.999	0
--	TCA112	11.110	0	0.000	0
6		11.200	580	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
7	CFB13	12.942	118586	1007.088	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
8		16.675	1791	0.000	0

Totals :

197171 2015.906

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: SV-38-5C

Probe Depth (ft): 5

Time Sampled: 1515

Sampled by: BV

Date Sampled: 12-19-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt gravel

Air Temp (F): 75

Wind dir/speed:

Sample Parameters

Probe Volume (ml): ~~160ml~~ 80ml

Max. Purge Vacuum (in. Hg): 15

Purge Volume (liters): ~~0.5~~ 400ml

Equilibrium Time: 2 sec

Purge Time: 3 sec

Sample Volume (ml): 20

Notes: Purge test ~~160ml~~ ~~0.5l~~ 400ml ③

Syringe ID: a: b:

Analytical Summary

Chemist: P. Sammann

Volume Analyzed (ml): 1.0

Date: 12-19-95 Time: 1519

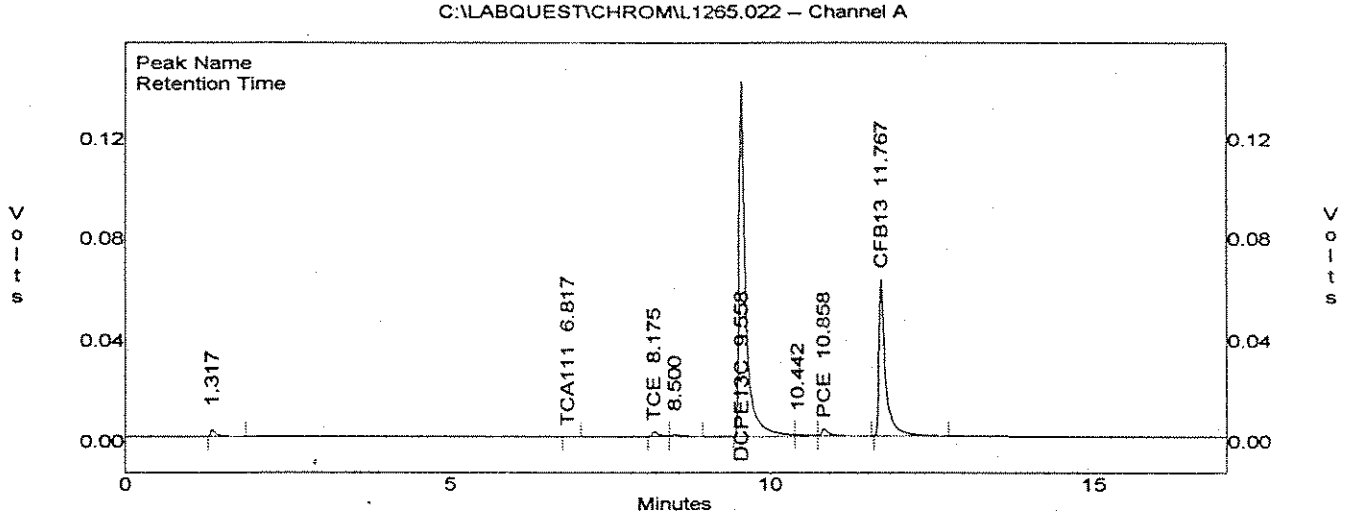
Time Injected: 1542 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	2.64 ✓	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	1.48 ✓				
1,1,2-Trichloroethane	<1				

Surrogate Recovery - ELCD: 94 92 % PID: 97 98 % FID: 102 102 %

Peak @ 5.28 minutes FID small

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.022
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5C
Acquired : Dec 19, 1995 15:43:52
Printed : Dec 19, 1995 16:01:12
User : PAS

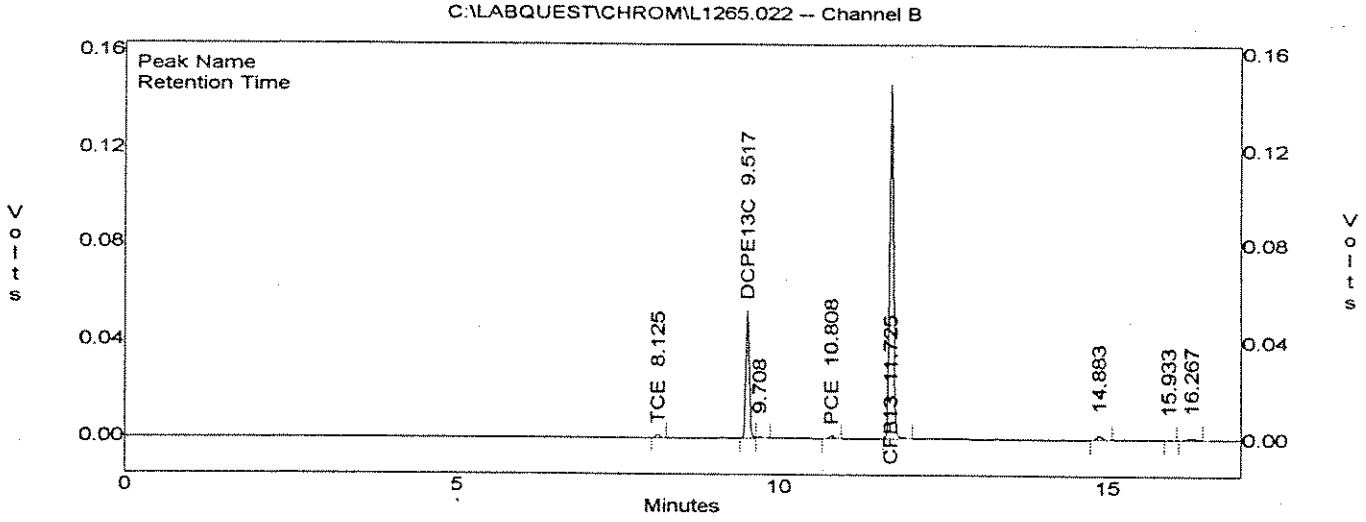


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.317	16657	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
2	TCA111	6.817	861	0.089	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.175	14746	1.478	0
4		8.500	7375	0.000	0
5	DCPE13C	9.558	984336	941.759	0
6		10.442	11094	0.000	0
--	TCA112	10.760	0	0.000	0
7	PCE	10.858	29477	2.638	0
8	CFB13	11.767	458071	919.610	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1522620	1865.574	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

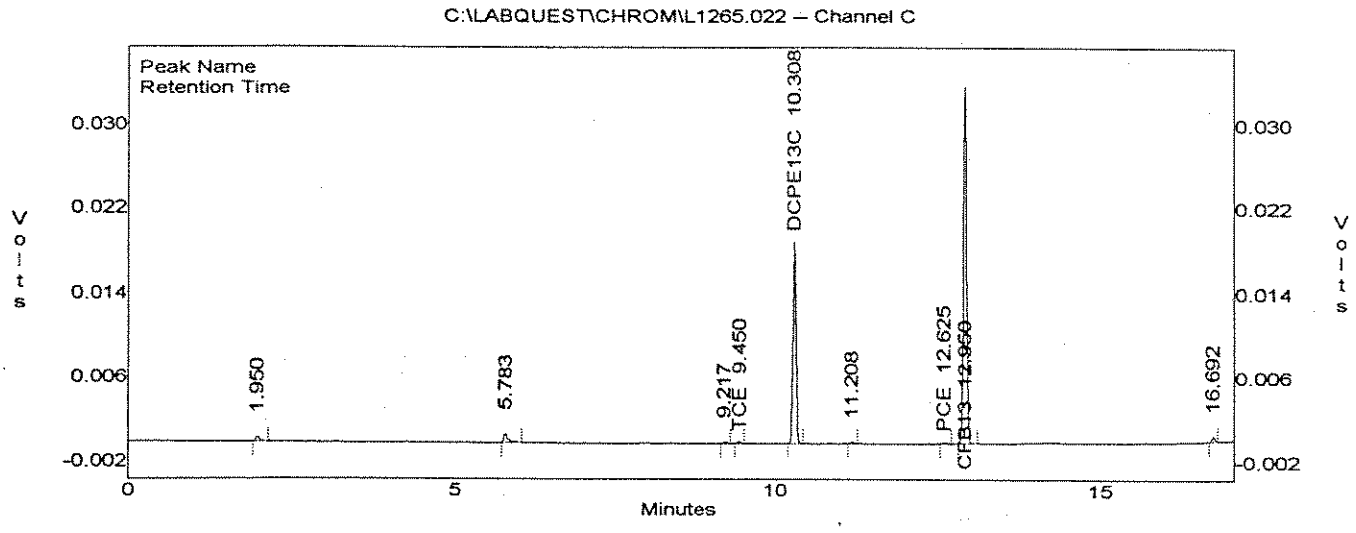
File : C:\LABQUEST\CHROM\L1265.022
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5C
Acquired : Dec 19, 1995 15:43:52
Printed : Dec 19, 1995 16:01:16
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
--	DCE11	3.890	0	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
1	TCE	8.125	5321	1.436	0
2	DCPE13C	9.517	198859	965.143	0
3		9.708	1803	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.808	6028	2.007	0
5	CFB13	11.725	595858	978.314	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.883	10749	0.000	0
7		15.933	903	0.000	0
8		16.267	6759	0.000	0
Totals :			826283	1946.901	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.022
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-38-5C
Acquired : Dec 19, 1995 15:43:52
Printed : Dec 19, 1995 16:01:17
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.950	1968	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.783	4270	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.217	544	0.000	0
4	TCE	9.450	608	2.172	0
5	DCPE13C	10.308	65848	1018.339	0
--	TCA112	11.110	0	0.000	0
6		11.208	595	0.000	0
--	TOL	11.430	0	0.000	0
7	PCE	12.625	628	2.844	0
8	CFB13	12.950	119931	1018.511	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
9		16.692	1690	0.000	0

Totals :

	196084	2041.866

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-28-5

Probe Depth (ft): 5

Time Sampled: 1642

Sampled by: BV

Date Sampled: 12-19-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 72

Wind dir/speed: South / 2 mph

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 18

Purge Volume (liters): 0.5

Equilibrium Time: 1 sec

Purge Time: 3 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P Schumann

Volume Analyzed (ml): 1.0

Date: 12-19-95 Time: 1650

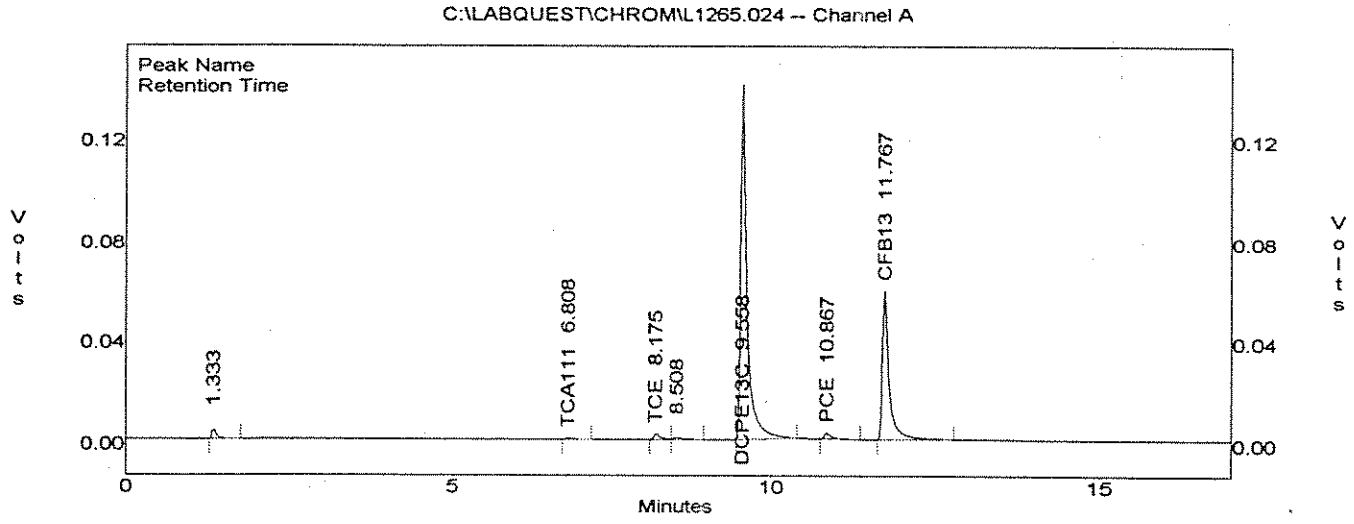
Time Injected: 1651

Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	1,163 ✓	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	1,164 ✓				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 92 86 % PID: 96 97 % FID: 101 101 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.024
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-28-5
Acquired : Dec 19, 1995 16:47:43
Printed : Dec 19, 1995 17:05:00
User : PAS



Channel A Results

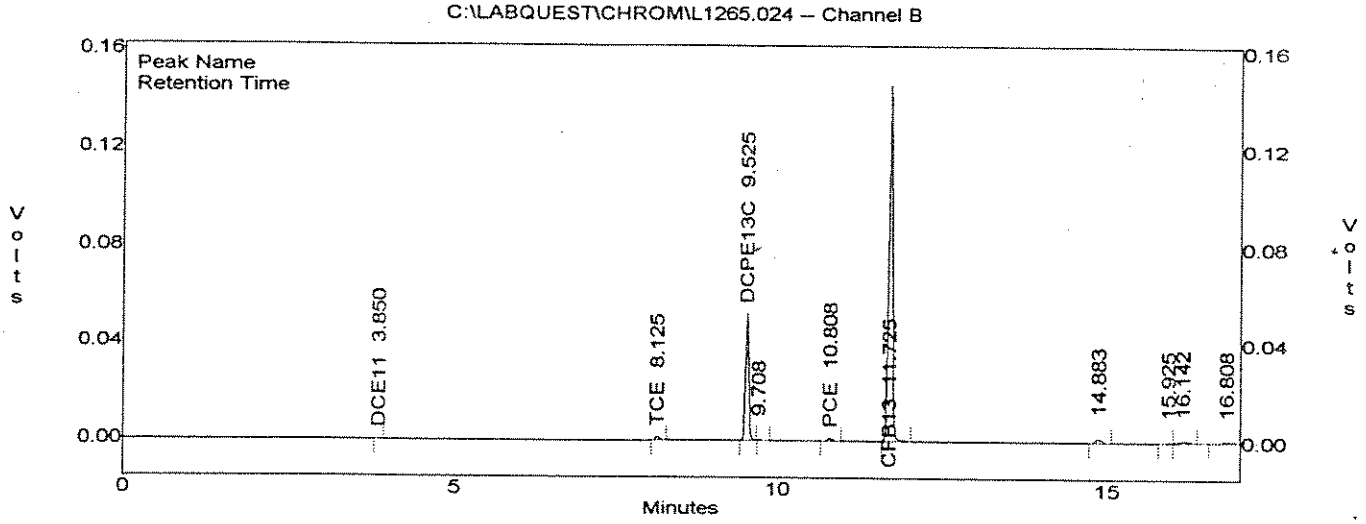
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.333	20780	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
2	TCA111	6.808	4664	0.483	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.175	16359	1.640 ✓	0
4		8.508	7244	0.000	0
5	DCPE13C	9.558	960584	919.034	0
--	TCA112	10.760	0	0.000	0
6	PCE	10.867	18243	1.633 ✓	0
7	CFB13	11.767	429481	862.214	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

	1457358	1785.003

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

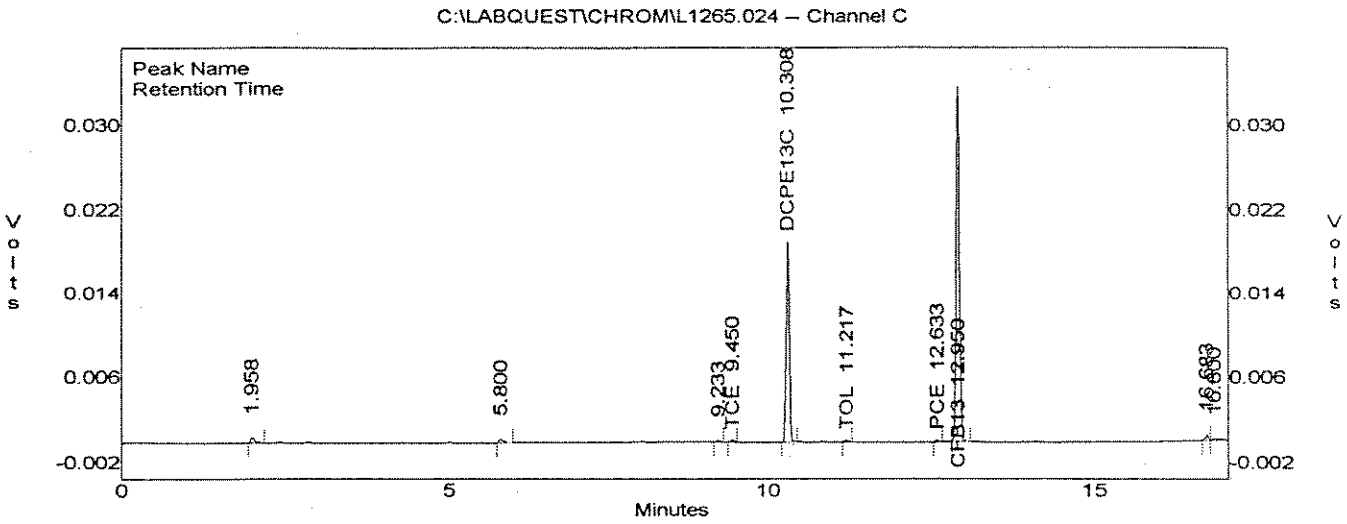
File : C:\LABQUEST\CHROM\L1265.024
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-28-5
Acquired : Dec 19, 1995 16:47:43
Printed : Dec 19, 1995 17:05:03
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.850	900	0.309 ~~0.309~~	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
2	TCE	8.125	5888	1.589	0
3	DCPE13C	9.525	197417	958.146	0
4		9.708	1524	0.000	0
--	TOL	10.050	0	0.000	0
5	PCE	10.808	5376	1.790	0
6	CFB13	11.725	590279	969.155	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
7		14.883	10649	0.000	0
8		15.925	1053	0.000	0
9		16.142	7053	0.000	0
10		16.808	1648	0.000	0
Totals :			821791	1930.990	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.024
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SV-28-5
Acquired : Dec 19, 1995 16:47:43
Printed : Dec 19, 1995 17:05:05
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.958	2153	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.800	1662	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.233	531	0.000	0
4	TCE	9.450	663	2.370	0
5	DCPE13C	10.308	65606	1014.592	0
--	TCA112	11.110	0	0.000	0
6	TOL	11.217	589	0.415	0
7	PCE	12.633	500	2.264	0
8	CFB13	12.950	119285	1013.025	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
9		16.683	1851	0.000	0
10		16.800	1932	0.000	0

Totals :

	194774	2032.666

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: TB19Dec95

Probe Depth (ft): —

Time Sampled:

Sampled by: BV

Date Sampled: 12-19-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: —

Ground Surface: —

Air Temp (F): —

Wind dir/speed: —

Sample Parameters

Probe Volume (ml): —

Max. Purge Vacuum (in. Hg): —

Purge Volume (liters): —

Equilibrium Time: —

Purge Time: —

Sample Volume (ml): 10

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1

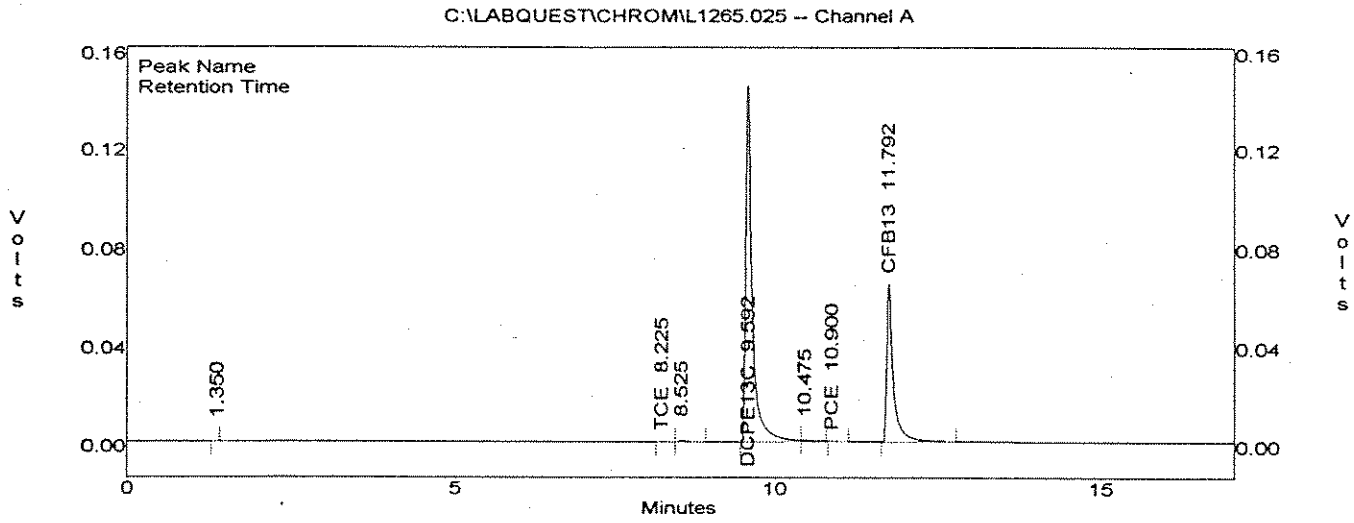
Date: 12-19-95 Time: 1710

Time Injected: ~~1710~~ 1710 GPS Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 97 95 % PID: 95 96 % FID: 102 102 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.025
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : TB19DEC95
Acquired : Dec 19, 1995 17:10:56
Printed : Dec 19, 1995 17:28:16
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	661	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.225	1573	0.158	0
3		8.525	5275	0.000	0
4	DCPE13C	9.592	1013547	969.707	0
5		10.475	5921	0.000	0
--	TCA112	10.760	0	0.000	0
6	PCE	10.900	764	0.068	0
7	CFB13	11.792	472163	947.901	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

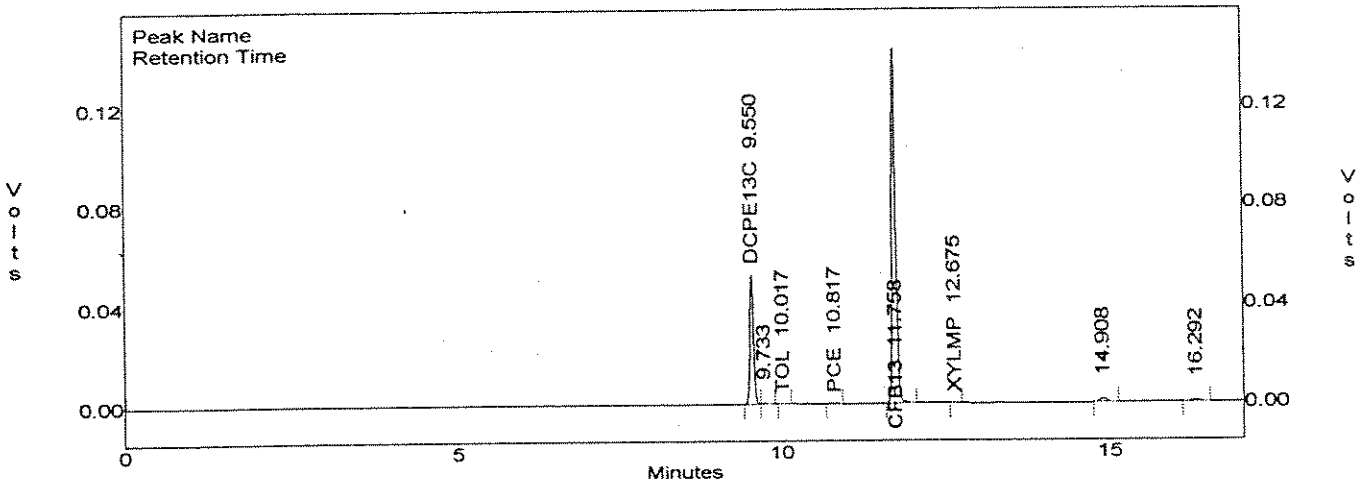
Totals :

	1499906	1917.834

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.025
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : TB19DEC95
Acquired : Dec 19, 1995 17:10:56
Printed : Dec 19, 1995 17:28:19
User : PAS

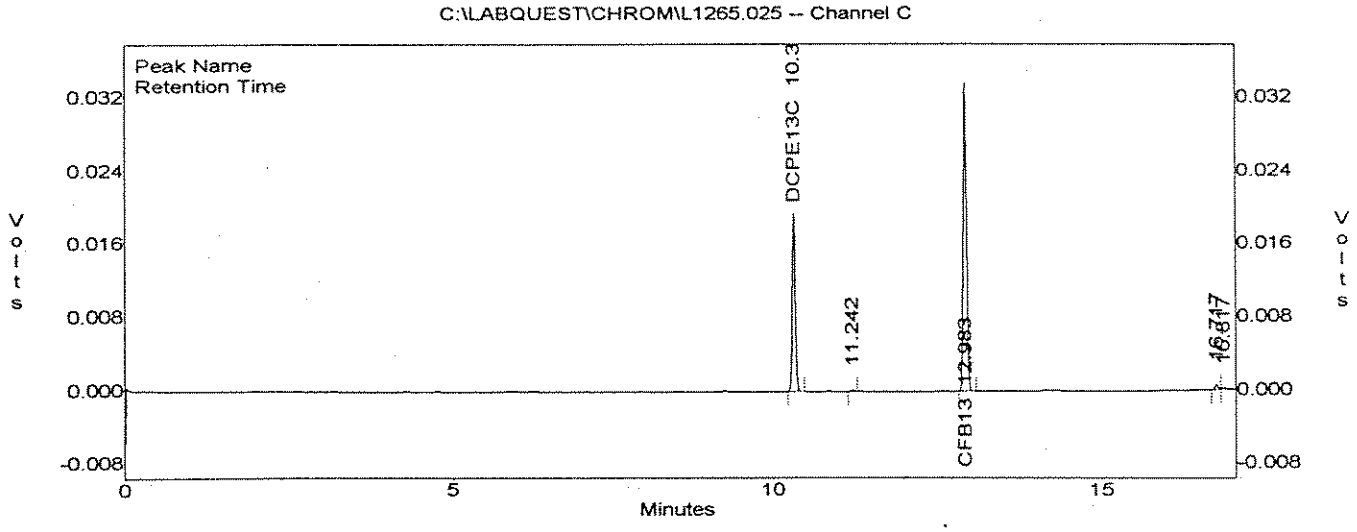
C:\LABQUEST\CHROM\L1265.025 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
--	DCE11	3.890	0	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
1	DCPE13C	9.550	195400	948.356	0
2		9.733	1803	0.000	0
3	TOL	10.017	672	0.102	0
4	PCE	10.817	1237	0.412	0
5	CFB13	11.758	586019	962.160	0
--	EB	12.440	0	0.000	0
6	XYLMP	12.675	754	0.130	0
--	XYLO	13.320	0	0.000	0
7		14.908	10292	0.000	0
8		16.292	5689	0.000	0
Totals :			801869	1911.160	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.025
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : TB19DEC95
Acquired : Dec 19, 1995 17:10:56
Printed : Dec 19, 1995 17:28:21
User : PAS



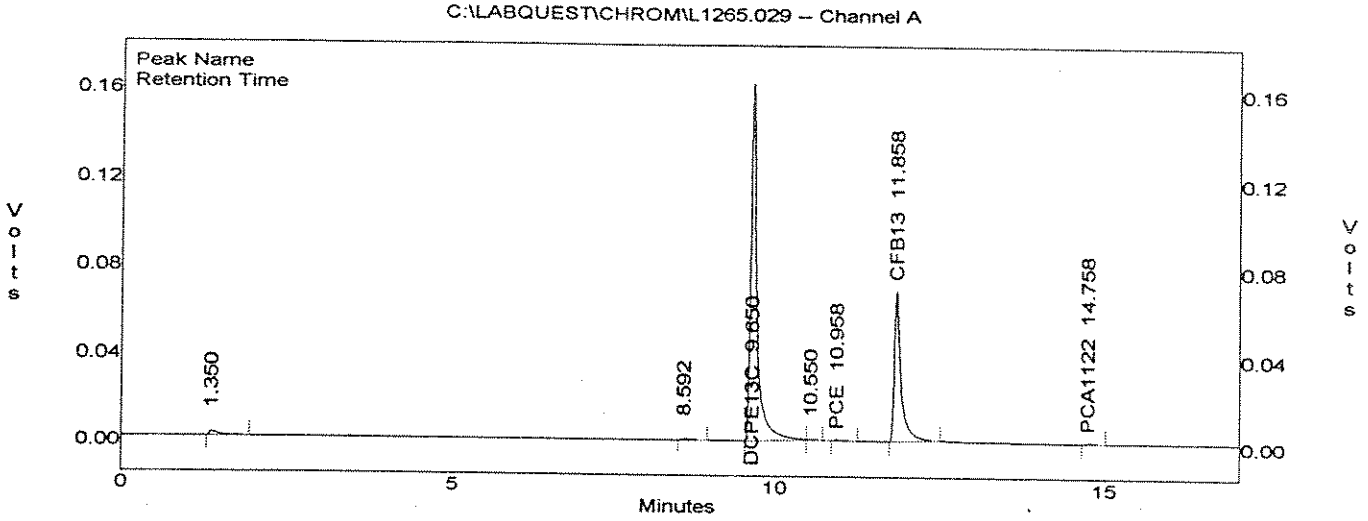
Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
--	TCE	9.520	0	0.000	0
1	DCPE13C	10.333	66156	1023.098	0
--	TCA112	11.110	0	0.000	0
2		11.242	643	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
3	CFB13	12.983	120449	1022.910	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
4		16.717	2032	0.000	0
5		16.817	1644	0.000	0

Totals :

		190926	2046.008

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.029
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SYSTEM BLANK
Acquired : Dec 20, 1995 07:44:39
Printed : Dec 20, 1995 08:02:04
User : PAS



Channel A Results

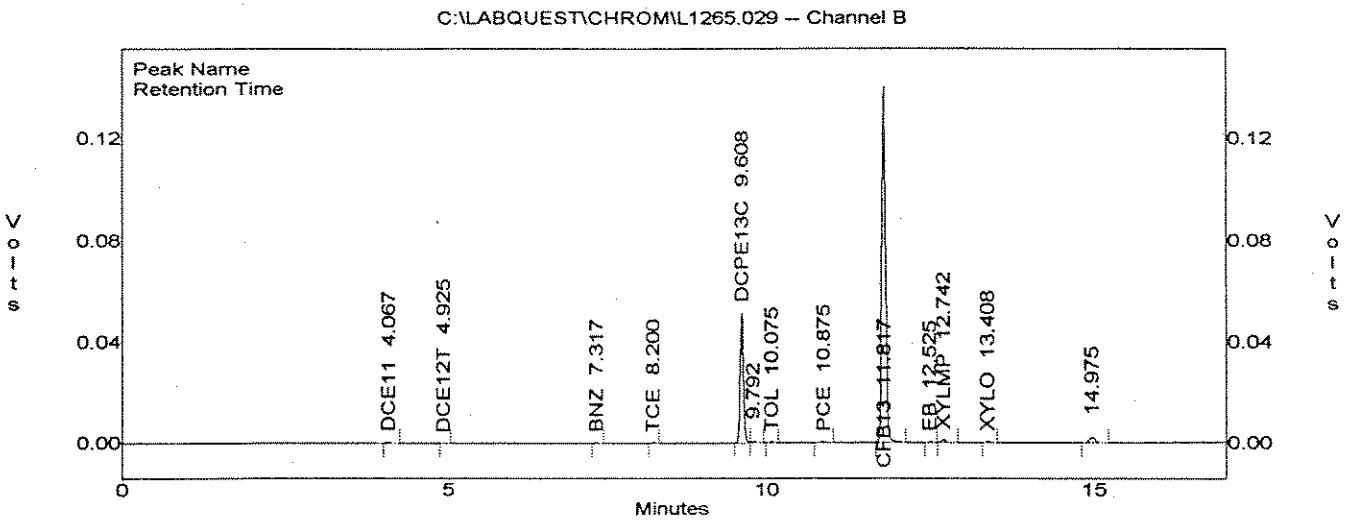
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	20407	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
--	TCE	8.220	0	0.000	0
2		8.592	5557	0.000	0
3	DCPE13C	9.650	1100017	1052.436	0
4		10.550	3951	0.000	0
--	TCA112	10.760	0	0.000	0
5	PCE	10.958	2141	0.192	0
6	CFB13	11.858	489723	983.153	0
--	PCA1112	12.490	0	0.000	0
7	PCA1122	14.758	3988	0.470	0

Totals :

	1625787	2036.250

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.029
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SYSTEM BLANK
Acquired : Dec 20, 1995 07:44:39
Printed : Dec 20, 1995 08:02:07
User : PAS



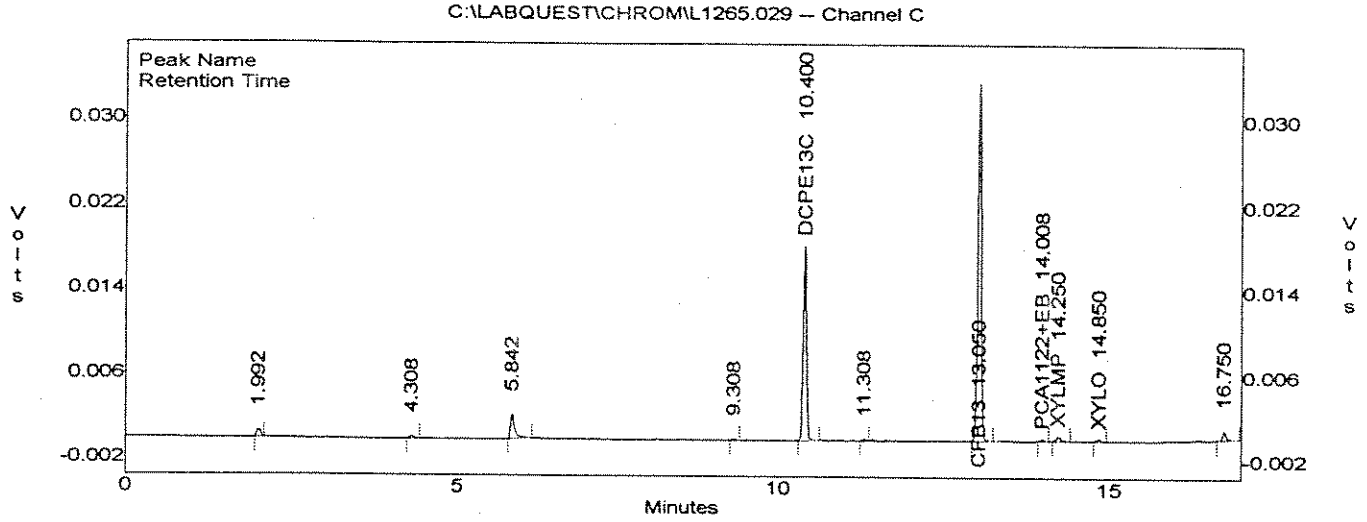
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.067	2736	0.939	0
2	DCE12T	4.925	585	0.098	0
--	DCE12C	6.190	0	0.000	0
3	BNZ	7.317	594	0.087	0
4	TCE	8.200	576	0.155	0
5	DCPE13C	9.608	190925	926.635	0
6		9.792	1927	0.000	0
7	TOL	10.075	1246	0.190	0
8	PCE	10.875	2359	0.785	0
9	CFB13	11.817	573334	941.333	0
10	EB	12.525	1515	0.273	0
11	XYLMP	12.742	5723	0.985	0
12	XYLO	13.408	2146	0.374	0
13		14.975	14392	0.000	0

Totals :

	798062	1871.854

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.029
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SYSTEM BLANK
Acquired : Dec 20, 1995 07:44:39
Printed : Dec 20, 1995 08:02:09
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.992	3115	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
2		4.308	968	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
3		5.842	10823	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
4		9.308	580	0.000	0
--	TCE	9.520	0	0.000	0
5	DCPE13C	10.400	64441	996.576	0
--	TCA112	11.110	0	0.000	0
6		11.308	572	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
7	CFB13	13.050	121387	1030.882	0
--	PCA1112	13.490	0	0.000	0
8	PCA1122+EB	14.008	634	0.898	0
9	XYLMP	14.250	2100	1.486	0
10	XYLO	14.850	1021	0.633	0
11		16.750	3581	0.000	0

Totals :

	209224	2030.475

HYDRO GEO CHEM, INC.

DAILY CALIBRATION CHECK
Project: FUGRO/BURBANK, CA
Project #: L1265

Date Calibrated: December 19, 1995.
Analyst: P. Schumann

Date:	12-20-95
Time:	06:57
Labquest File number:	L1265.027
Volume Injected(ul):	200
Standard Used:	CAL9516

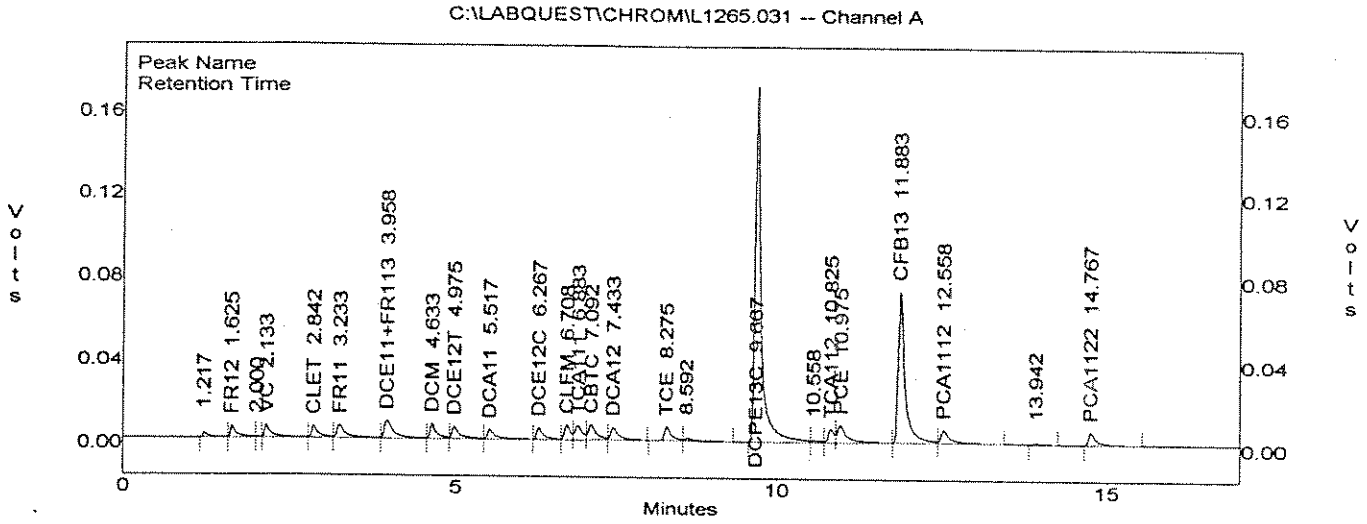
Compound Name	Detector	Mass Injected(ug)	Area measured	Rf	Rf (IC)	RPD
Dichlorodifluoromethane	ELCD	0.1012	552333	1.8E-07	1.8E-07	-3
Vinyl Chloride	ELCD	0.1016	609482	1.7E-07	1.6E-07	-1
Chloroethane	ELCD	0.102	564369	1.8E-07	1.8E-07	-1
Trichlorofluoromethane	ELCD	0.1028	1176248	8.7E-08	9.5E-08	8
Dichloromethane	ELCD	0.1018	1079778	9.4E-08	1E-07	9
1,1-Dichloroethene + F113	ELCD	0.2036	1867072	1.1E-07	1.3E-07	14
trans-1,2-Dichloroethene	**ELCD**	**0.0986**	**988657**	**1E-07**	**1E-07**	**3**
1,1-Dichloroethane	**ELCD**	0.0872	**903001**	9.7E-08	1.1E-07	**10**
cis-1,2-Dichloroethene	**ELCD**	0.102	**999746**	1E-07	1.2E-07	**14**
Chloroform	ELCD	0.105	1094090	9.6E-08	1.2E-07	18
1,1,1-Trichloroethane	**ELCD**	0.1048	**1242811**	8.4E-08	1E-07	**16**
1,1,1-Trichloroethane	**FID**	0.1048	**31988**	3.3E-06	3.6E-06	**9**
Carbon Tetrachloride	ELCD	0.102	1471774	6.9E-08	8.1E-08	14
1,2-Dichloroethane	**ELCD**	0.1022	**1217347**	8.4E-08	9.5E-08	**12**
Trichloroethene	**ELCD**	0.1002	**1179793**	8.5E-08	1E-07	**19**
Trichloroethene	**PID**	0.1002	**389491**	2.6E-07	3.1E-07	**16**
Trichloroethene	**FID**	0.1002	**30673**	3.3E-06	3.2E-06	**-1**
1,1,2 Tetrachloroethane	**ELCD**	0.101	**838271**	1.2E-07	1.5E-07	**19**
1,1,2 Tetrachloroethane	**FID**	0.101	**30882**	3.3E-06	3.8E-06	**14**
Tetrachloroethene	**ELCD**	0.1006	**1494045**	6.7E-08	8E-08	**16**
Tetrachloroethene	**PID**	0.1006	**326181**	3.1E-07	3.8E-07	**19**
Tetrachloroethene	**FID**	0.1006	**24960**	4E-06	4.7E-06	**15**
1112 tetrachloroethane	ELCD	0.1008	1133018	8.9E-08	1E-07	11
1122 tetrachloroethane	ELCD	0.1024	1186735	8.6E-08	1.2E-07	26
1,1-Dichloroethene	PID	0.1008	289339	3.5E-07	4.2E-07	16
Benzene	**PID**	0.1038	**751012**	1.4E-07	1.6E-07	**13**
Toluene	**PID**	0.102	**713014**	1.4E-07	1.7E-07	**16**
Toluene	**FID**	0.102	**160580**	6.4E-07	7.3E-07	**13**
Ethyl Benzene	PID	0.103	634366	1.6E-07	2.1E-07	21
m/p-Xylene	**PID**	0.2056	**1546353**	1.3E-07	1.7E-07	**21**
m/p-Xylene	**FID**	0.2056	**325641**	6.3E-07	7.5E-07	**15**
o-Xylene	**FID**	0.103	**187526**	5.5E-07	6.7E-07	**18**
1,1,2-Trichlorotrifluoroethane	FID	0.1026	18579	5.5E-06	6E-06	8

Calibration curve generated on this day
Used as a point on calibration curve generated 12-20-95.
Chromatogram is in sequence w/ other calibration data.
PS

BGPAA 0234

Pı ıinaı ıta

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.031
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516-2
Acquired : Dec 20, 1995 08:37:46
Printed : Dec 20, 1995 08:55:17
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.217	15093	0.000	0
2	FR12	1.625	38394	0.006	0
3		2.000	2060	0.000	0
4	VC	2.133	46780	0.008	0
5	CLET	2.842	41421	0.007	0
6	FR11	3.233	58726	0.006	0
7	DCE11+FR113	3.958	84916	0.012	0
8	DCM	4.633	50453	0.006	0
9	DCE12T	4.975	49212	0.006	0
10	DCA11	5.517	39732	0.004	0
11	DCE12C	6.267	42944	0.005	0
12	CLFM	6.708	44717	0.005	0
13	TCA111	6.883	53697	0.006	0
14	CBTC	7.092	67850	0.006	0
15	DCA12	7.433	52704	0.006	0
16	TCE	8.275	53380	0.005	0
17		8.592	13946	0.000	0
18	DCPE13C	9.667	1173948	1.123	0
19		10.558	10652	0.000	0
20	TCA112	10.825	42664	0.006	0
21	PCE	10.975	94076	0.008	0
22	CFB13	11.883	533456	1.071	0
23	PCA1112	12.558	70900	0.007	0
24		13.942	5164	-0.000	0
25	PCA1122	14.767	53929	0.006	0

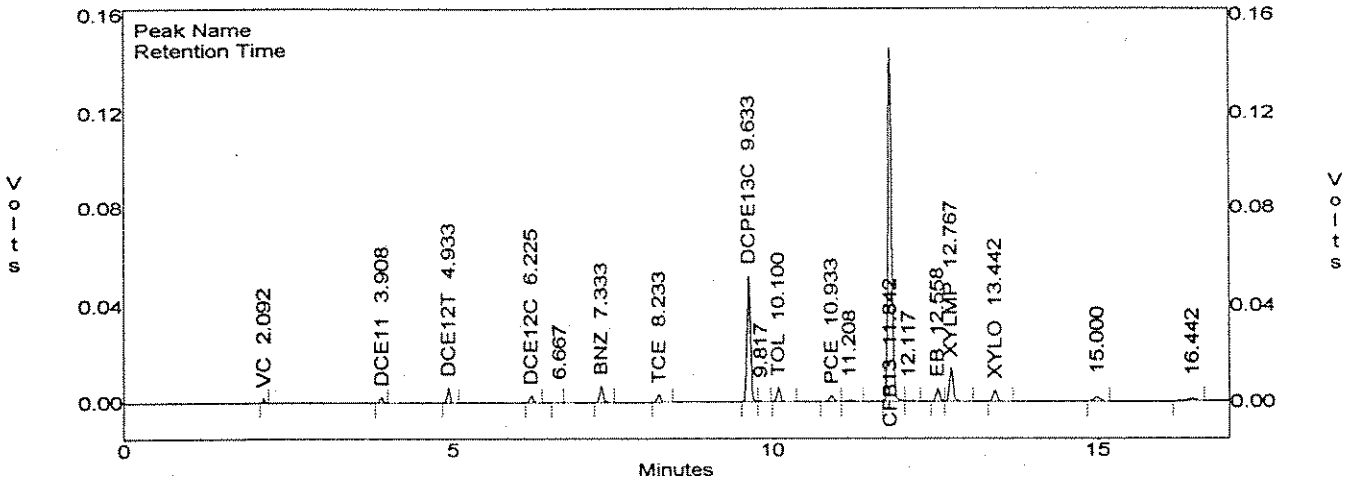
Totals :

	2740828	2.310

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.031
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516-2
Acquired : Dec 20, 1995 08:37:46
Printed : Dec 20, 1995 08:55:21
User : PAS

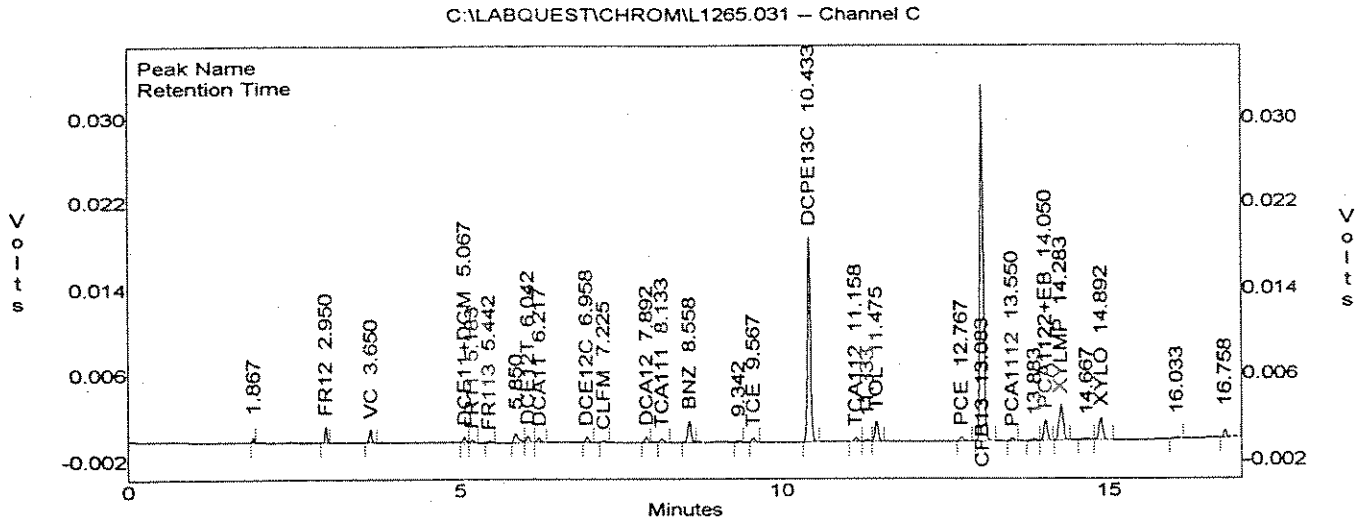
C:\LABQUEST\CHROM\L1265.031 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1	VC	2.092	4342	0.004	0
2	DCE11	3.908	~~0670~~ 9020	0.003	0
3	DCE12T	4.933	20306	0.003	0
4	DCE12C	6.225	10976	0.003	0
5		6.667	510	0.000	0
6	BNZ	7.333	26396	0.004	0
7	TCE	8.233	13587	0.004	0
8	DCPE13C	9.633	195554	0.949	0
9		9.817	1806	0.000	0
10	TOL	10.100	24822	0.004	0
11	PCE	10.933	13847	0.005	0
12		11.208	4404	0.000	0
13	CFB13	11.842	588755	0.967	0
14		12.117	3212	0.000	0
15	EB	12.558	22241	0.004	0
16	XYLMP	12.767	58507	0.010	0
17	XYLO	13.442	21024	0.004	0
18		15.000	13264	0.000	0
19		16.442	7623	0.000	0
Totals :			1039861	1.963	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.031
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516-2
Acquired : Dec 20, 1995 08:37:46
Printed : Dec 20, 1995 08:55:23
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.867	850	0.000	0
2	FR12	2.950	3184	0.006	0
3	VC	3.650	3321	0.007	0
--	CLET	4.450	0	0.000	0
4	DCE11+DCM	5.067	1729	0.009	0
5	FR11	5.183	851	0.004	0
6	FR113	5.442	731	0.004	0
7		5.850	4066	0.000	0
8	DCE12T	6.042	2159	0.006	0
9	DCA11	6.217	1622	0.004	0
10	DCE12C	6.958	1755	0.005	0
11	CLFM	7.225	546	0.005	0
12	DCA12	7.892	1772	0.005	0
13	TCA111	8.133	1318	0.005	0
14	BNZ	8.558	7258	0.005	0
--	CBTC	8.660	0	0.000	0
15		9.342	577	0.000	0
16	TCE	9.567	1333	0.005	0
17	DCPE13C	10.433	65391	1.011	0
18	TCA112	11.158	1446	0.005	0
19		11.333	648	0.000	0
20	TOL	11.475	6933	0.005	0
21	PCE	12.767	1776	0.008	0
22	CFB13	13.083	121650	1.033	0
23	PCA1112	13.550	1093	0.005	0
24		13.883	855	0.000	0
25	PCA1122+EB	14.050	7171	0.010	0
26	XYLMP	14.283	14449	0.010	0
27		14.667	892	0.000	0
28	XYLO	14.892	8598	0.005	0
29		16.033	651	0.000	0
30	-	16.758	2834	0.000	0

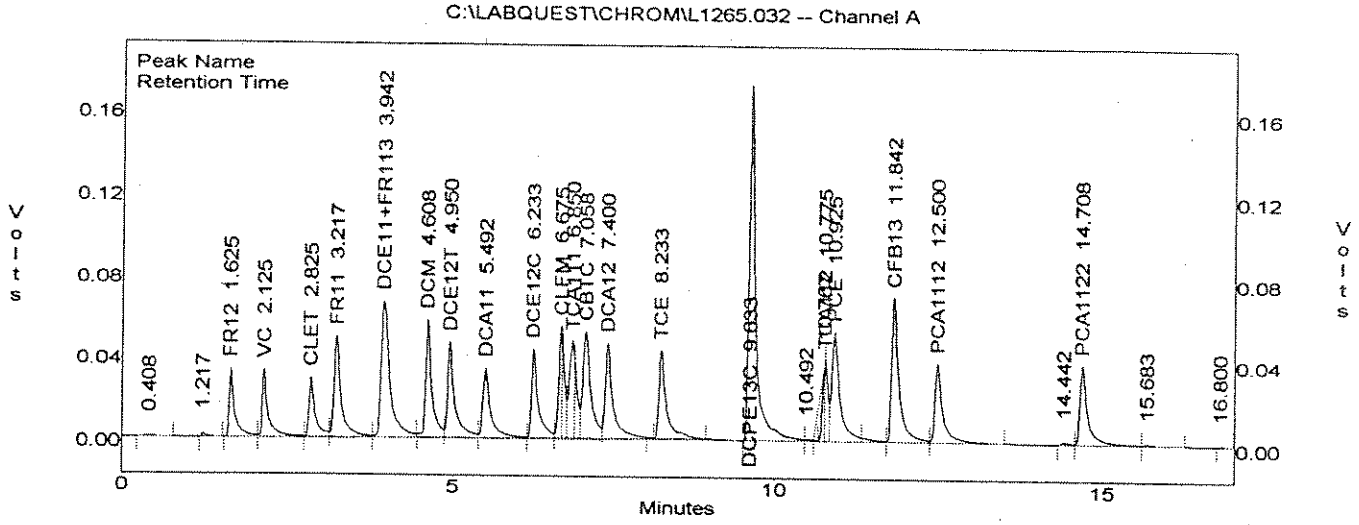
Continued...

File : C:\LABQUEST\CHROM\L1265.031
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516-2
quired : Dec 20, 1995 08:37:46
inted : Dec 20, 1995 08:55:25
User : PAS

Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
Totals :					
			267470	2.162	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.032
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516
Acquired : Dec 20, 1995 09:00:40
Printed : Dec 20, 1995 09:17:59
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		0.408	5252	0.000	0
2		1.217	9489	0.000	0
3	FR12	1.625	191020	0.030	0
4	VC	2.125	201630	0.033	0
5	CLET	2.825	185009	0.033	0
6	FR11	3.217	389275	0.038	0
7	DCE11+FR113	3.942	618560	0.090	0
8	DCM	4.608	385724	0.044	0
9	DCE12T	4.950	355588	0.040	0
10	DCA11	5.492	291890	0.031	0
11	DCE12C	6.233	326818	0.039	0
12	CLFM	6.675	325028	0.037	0
13	TCA111	6.850	408063	0.042	0
14	CBTC	7.058	464142	0.041	0
15	DCA12	7.400	409745	0.043	0
16	TCE	8.233	349656	0.035	0
17	DCPE13C	9.633	1222004	1.169	0
18		10.492	8884	0.000	0
19		10.767	113652	0.000	0
20	TCA112	10.775	612815	0.084	0
21	PCE	10.925	489033	0.044	0
22	CFB13	11.842	549755	1.104	0
23	PCA1112	12.500	329679	0.034	0
24		14.442	9352	0.000	0
25	PCA1122	14.708	328632	0.039	0
26		15.683	7725	0.000	0
27		16.800	542	0.000	0

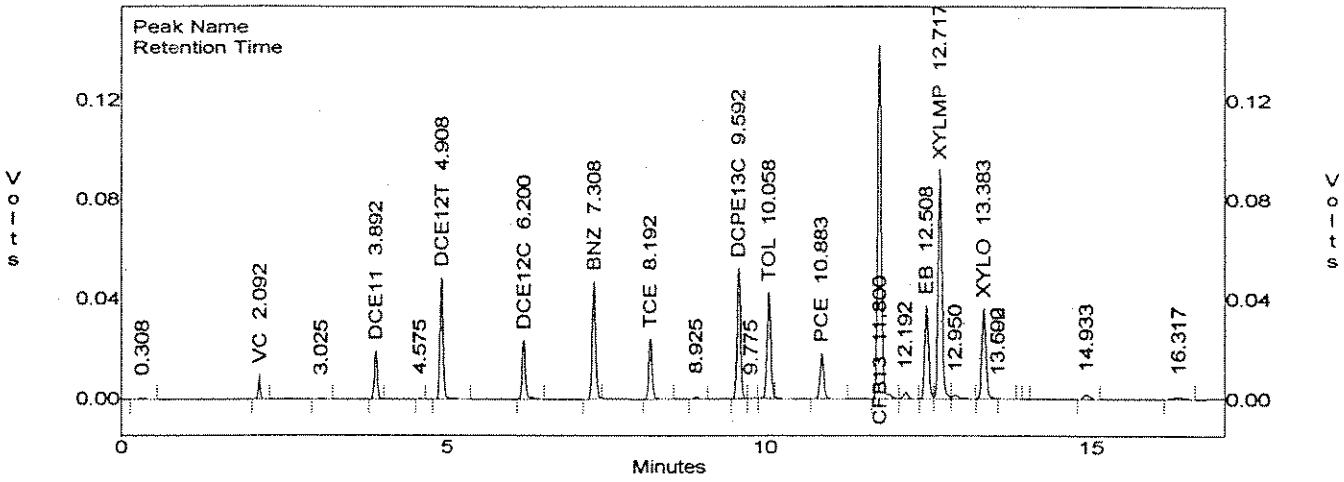
Totals :

	8588973	3.051

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.032
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516
Acquired : Dec 20, 1995 09:00:40
Printed : Dec 20, 1995 09:18:03
User : PAS

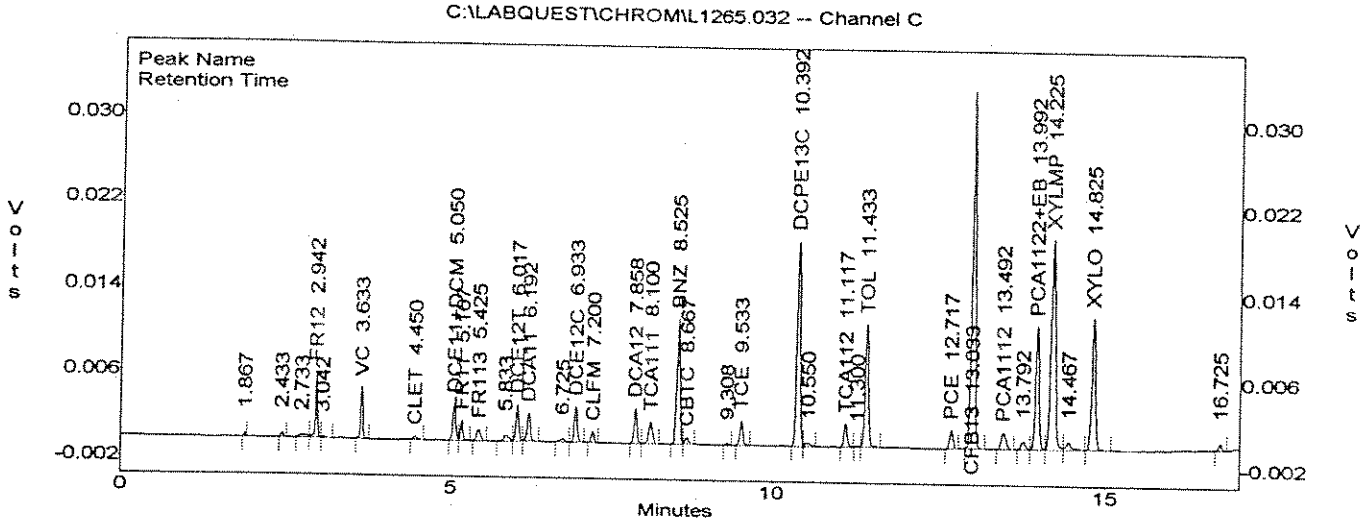
C:\LABQUEST\CHROM\L1265.032 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1		0.308	3174	0.000	0
2	VC	2.092	21282	0.021	0
3		3.025	2031	0.000	0
4	DCE11	3.892	65496	0.022	0
5		4.575	1426	0.000	0
6	DCE12T	4.908	159851	0.027	0
7	DCE12C	6.200	85958	0.026	0
8	BNZ	7.308	180628	0.027	0
9	TCE	8.192	94855	0.026	0
10		8.925	4724	0.000	0
11	DCPE13C	9.592	195413	0.948	0
12		9.775	1464	0.000	0
13	TOL	10.058	162842	0.025	0
14	PCE	10.883	77682	0.026	0
15	CFB13	11.800	587766	0.965	0
16		12.192	13909	0.000	0
17	EB	12.508	157223	0.028	0
18	XYLMP	12.717	395744	0.068	0
19		12.950	12410	0.000	0
20	XYLO	13.383	156757	0.027	0
21		13.592	1620	0.000	0
22		13.600	1411	0.000	0
23		14.933	12273	0.000	0
24		16.317	7630	0.000	0
Totals :			2403580	2.236	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.032
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516
Acquired : Dec 20, 1995 09:00:40
Printed : Dec 20, 1995 09:18:05
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.867	738	0.000	0
2		2.433	1095	0.000	0
3		2.733	2444	0.000	0
4	FR12	2.942	13731	0.027	0
5		3.042	556	0.000	0
6	VC	3.633	12757	0.026	0
7	CLET	4.450	1324	0.034	0
8	DCE11+DCM	5.050	10729	0.055	0
9	FR11	5.167	5342	0.028	0
10	FR113	5.425	4603	0.026	0
11		5.833	3078	0.000	0
12	DCE12T	6.017	10890	0.029	0
13	DCA11	6.192	9457	0.025	0
14		6.725	1576	0.000	0
15	DCE12C	6.933	10818	0.028	0
16	CLFM	7.200	3312	0.027	0
17	DCA12	7.858	10845	0.029	0
18	TCA111	8.100	8484	0.030	0
19	BNZ	8.525	41172	0.029	0
20	CBTC	8.667	2698	0.028	0
21		9.308	542	0.000	0
22	TCE	9.533	7919	0.028	0
23	DCPE13C	10.392	65527	1.013	0
24		10.550	1863	0.000	0
25	TCA112	11.117	7965	0.029	0
26		11.300	541	0.000	0
27	TOL	11.433	41395	0.029	0
28	PCE	12.717	6391	0.029	0
29	CFB13	13.033	120052	1.020	0
30	PCA1112	13.492	7829	0.037	0
31		13.792	3449	0.000	0
32	PCA1122+EB	13.992	42082	0.060	0
33	XYLMP	14.225	86572	0.061	0

Continued...

File : C:\LABQUEST\CHROM\L1265.032
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 50UL CAL9516
quired : Dec 20, 1995 09:00:40
inted : Dec 20, 1995 09:18:07
User : PAS

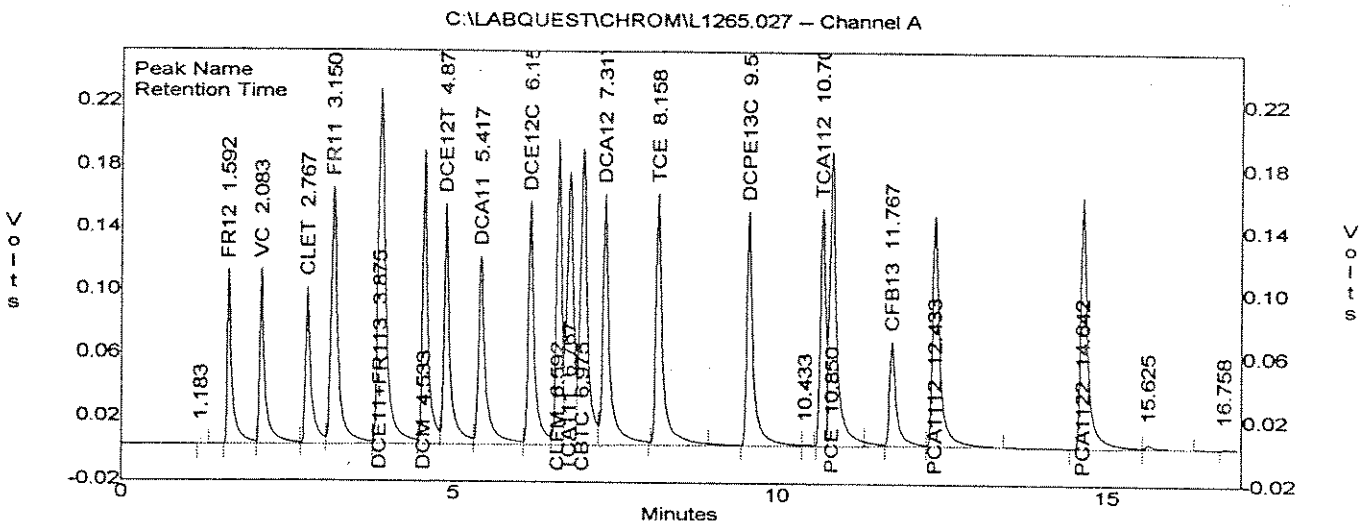
Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
34		14.467	4554	0.000	0
35	XYLO	14.825	48885	0.030	0
36		16.725	2045	0.000	0

Totals :

	603273	2.759

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.027
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 200UL CAL9516
Acquired : Dec 20, 1995 06:57:38
Printed : Dec 20, 1995 08:00:19
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.183	950	0.000	0
2	FR12	1.592	552333	0.087	0
3	VC	2.083	609482	0.099	0
4	CLET	2.767	564369	0.102	0
5	FR11	3.150	1176248	0.116	0
6	DCE11+FR113	3.875	1867072	0.272	0
7	DCM	4.533	1079778	0.123	0
8	DCE12T	4.875	988657	0.112	0
9	DCA11	5.417	903001	0.096	0
10	DCE12C	6.158	999746	0.118	0
11	CLFM	6.592	1094090	0.126	0
12	TCA111	6.767	1242811	0.129	0
13	CBTC	6.975	1471774	0.130	0
14	DCA12	7.317	1217347	0.128	0
15	TCE	8.158	1179793	0.118	0
16	DCPE13C	9.558	1041328	0.996	0
17		10.433	6709	0.000	0
18	TCA112	10.700	838271	0.115	0
19	PCE	10.850	1494045	0.134	0
20	CFB13	11.767	501475	1.007	0
21	PCA1112	12.433	1133018	0.118	0
22	PCA1122	14.642	1186735	0.140	0
23		15.625	29045	0.000	0
24		16.758	3503	0.000	0

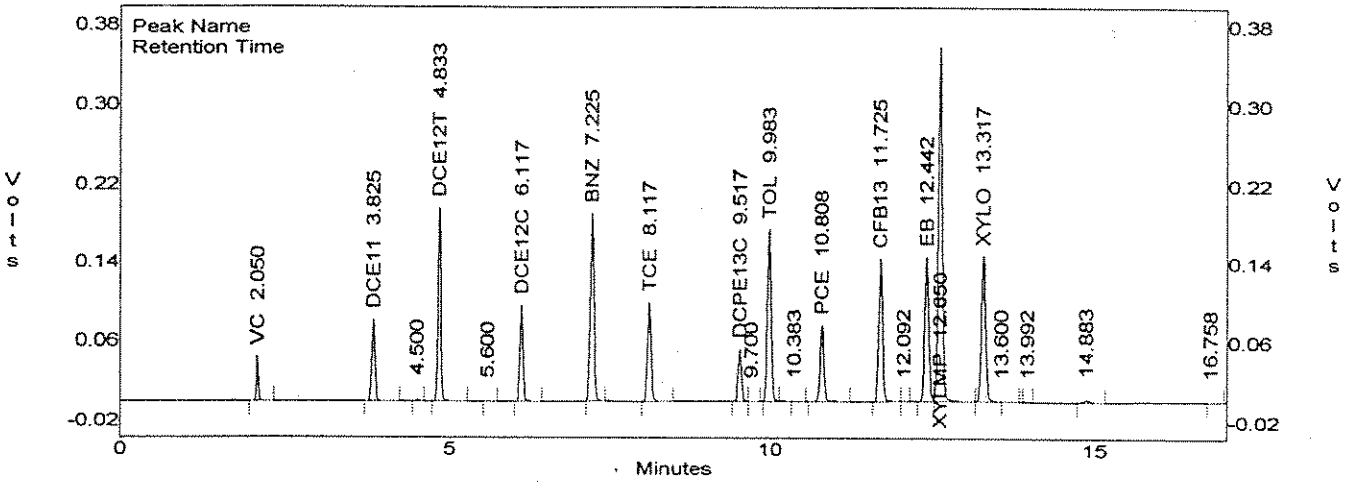
Totals :

	21181594	4.266

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.027
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 200UL CAL9516
Acquired : Dec 20, 1995 06:57:38
Printed : Dec 20, 1995 08:00:24
User : PAS

C:\LABQUEST\CHROM\L1265.027 -- Channel B



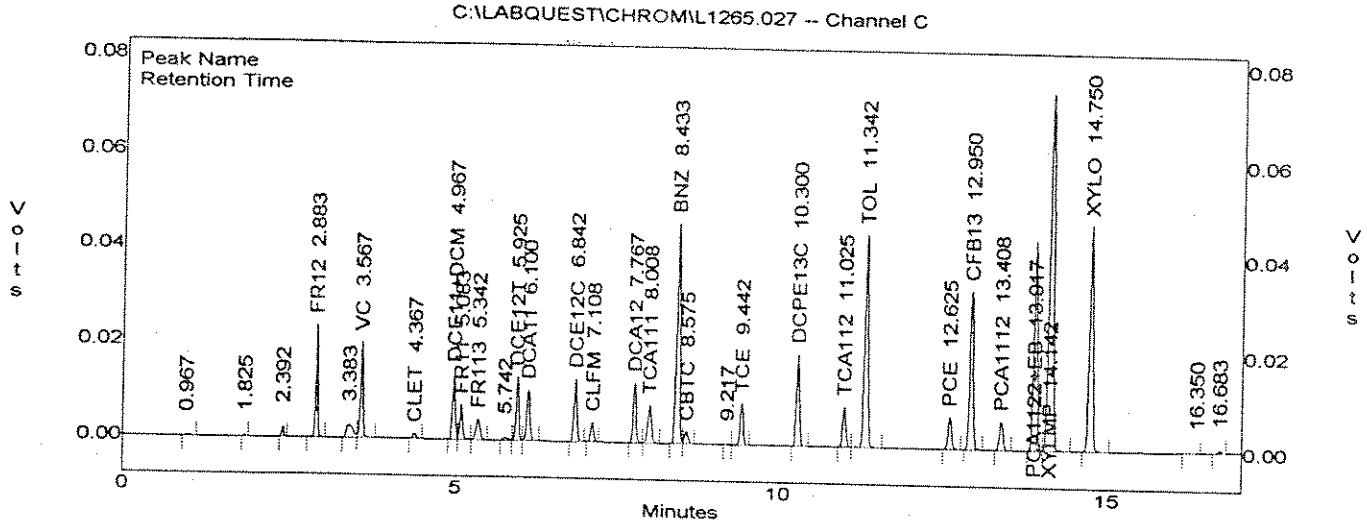
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1	VC	2.050	96211	0.094	0
2	DCE11	3.825	289339	0.099	0
3		4.500	5583	0.000	0
4	DCE12T	4.833	621068	0.104	0
5		5.600	878	0.000	0
6	DCE12C	6.117	341856	0.104	0
7	BNZ	7.225	751012	0.110	0
8	TCE	8.117	389491	0.105	0
9	DCPE13C	9.517	199933	0.970	0
10		9.700	1997	0.000	0
11	TOL	9.983	713014	0.109	0
12		10.383	1258	0.000	0
13	PCE	10.808	326181	0.109	0
14	CFB13	11.725	591477	0.971	0
15		12.092	696	0.000	0
16	EB	12.442	634366	0.114	0
17	XYLMP	12.650	1546353	0.266	0
18	XYLO	13.317	644149	0.112	0
19		13.600	1401	0.000	0
20		13.992	1319	0.000	0
21		14.883	15952	0.000	0
22		16.758	993	0.000	0

Totals :

	7174533	3.269

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.027
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 200UL CAL9516
Acquired : Dec 20, 1995 06:57:38
Printed : Dec 20, 1995 08:00:26
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		0.967	526	0.000	0
2		1.825	836	0.000	0
3		2.392	4521	0.000	0
4	FR12	2.883	50729	0.101	0
5		3.383	18991	0.000	0
6	VC	3.567	52610	0.108	0
7	CLET	4.367	3996	0.103	0
8	DCE11+DCM	4.967	42441	0.218	0
9	FR11	5.083	20867	0.109	0
10	FR113	5.342	18579	0.106	0
11		5.742	3042	0.000	0
12	DCE12T	5.925	40121	0.106	0
13	DCA11	6.100	35716	0.093	0
14	DCE12C	6.842	41908	0.110	0
15	CLFM	7.108	13898	0.115	0
16	DCA12	7.767	42091	0.112	0
17	TCA111	8.008	31988	0.112	0
18	BNZ	8.433	161202	0.113	0
19	CBTC	8.575	10346	0.109	0
20		9.217	577	0.000	0
21	TCE	9.442	30673	0.110	0
22	DCPE13C	10.300	65718	1.016	0
23	TCA112	11.025	30882	0.113	0
24	TOL	11.342	160580	0.113	0
25	PCE	12.625	24960	0.113	0
26	CFB13	12.950	119155	1.012	0
27	PCA1112	13.408	23884	0.113	0
28	PCA1122+EB	13.917	162284	0.230	0
29	XYLMP	14.142	325641	0.230	0
30	XYLO	14.750	187526	0.116	0
31		16.350	508	0.000	0
32		16.683	2094	0.000	0

Continued...

File : C:\LABQUEST\CHROM\L1265.027
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 200UL CAL9516
uired : Dec 20, 1995 06:57:38
nted : Dec 20, 1995 08:00:28
User : PAS

Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
Totals :					
			1728903	4.781	

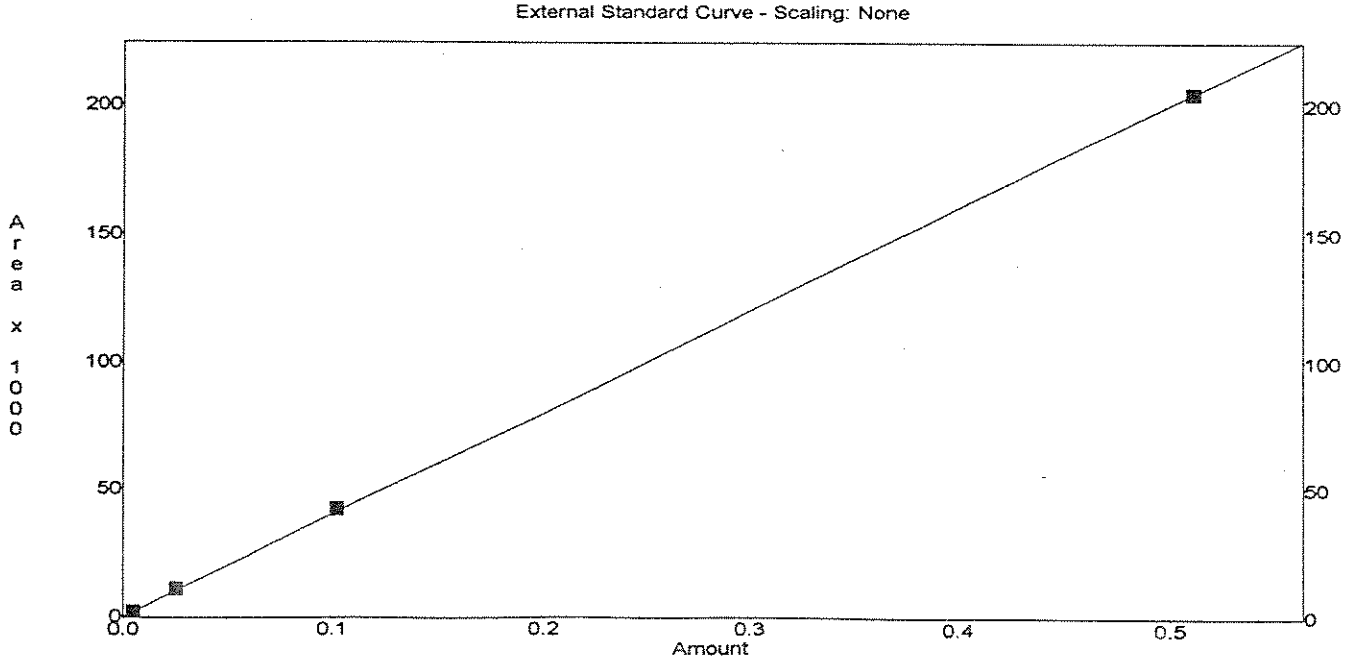
Method : C:\LABQUEST\METHODS\L1265_2.MET * - Replicate Not Used
Printed : Dec 20, 1995 09:27:23
Channel : C
Peak : DCA12

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	1772	0.00511	2.883e-006	1772					0	0
2	10845	0.0256	2.36e-006	10845					0	0
3	42092	0.1022	2.428e-006	42092					0	0
4	204893	0.511	2.494e-006	204893					0	0

Average RF: 2.54146e-006
RF StdDev: 2.34399e-007
RF %RSD: 9.223

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 2.491e-006 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:24
Channel : C
Peak : TCA111

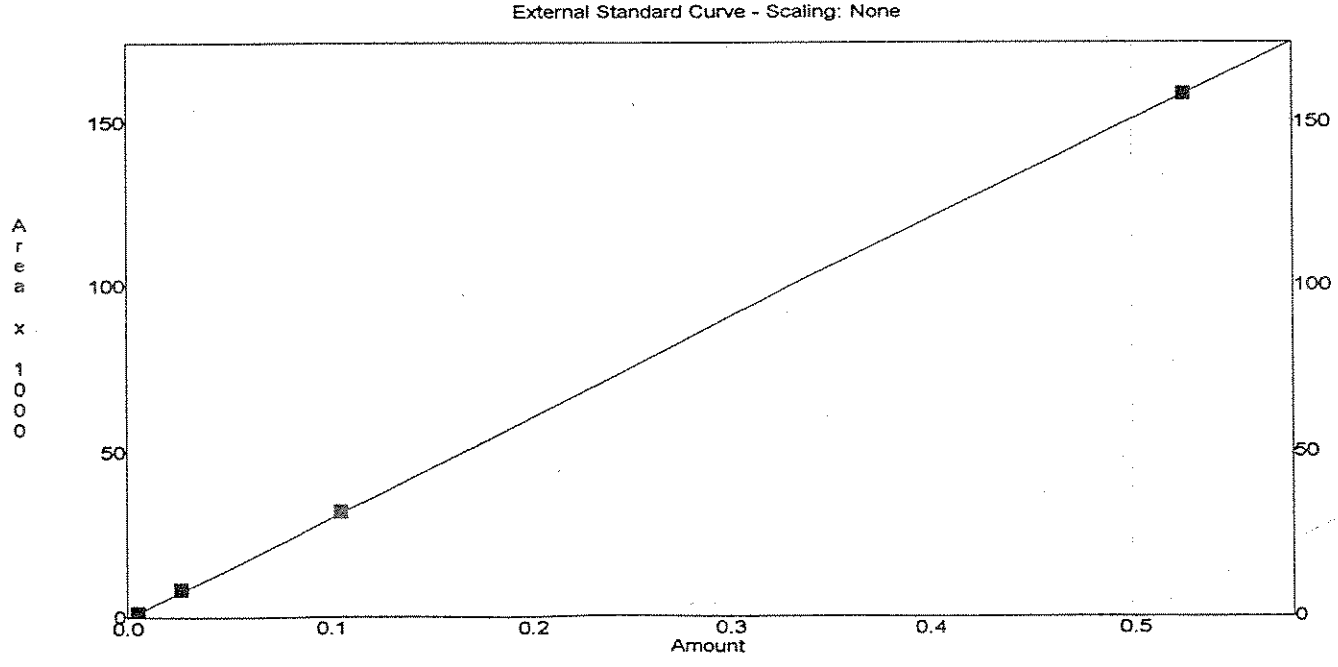
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	1319	0.00524	3.974e-006	1319					0	0
2	8485	0.0262	3.088e-006	8485					0	0
3	31989	0.1048	3.276e-006	31989					0	-
4	158596	0.524	3.304e-006	158596					0	

Average RF: 3.41045e-006
RF StdDev: 3.87558e-007
RF %RSD: 11.3639

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 3.302e-006 x Area + 0.000e+000
R^2 = 1.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET

Printed : Dec 20, 1995 09:35:05

Channel : B

Peak : TOL

* - Replicate Not Used

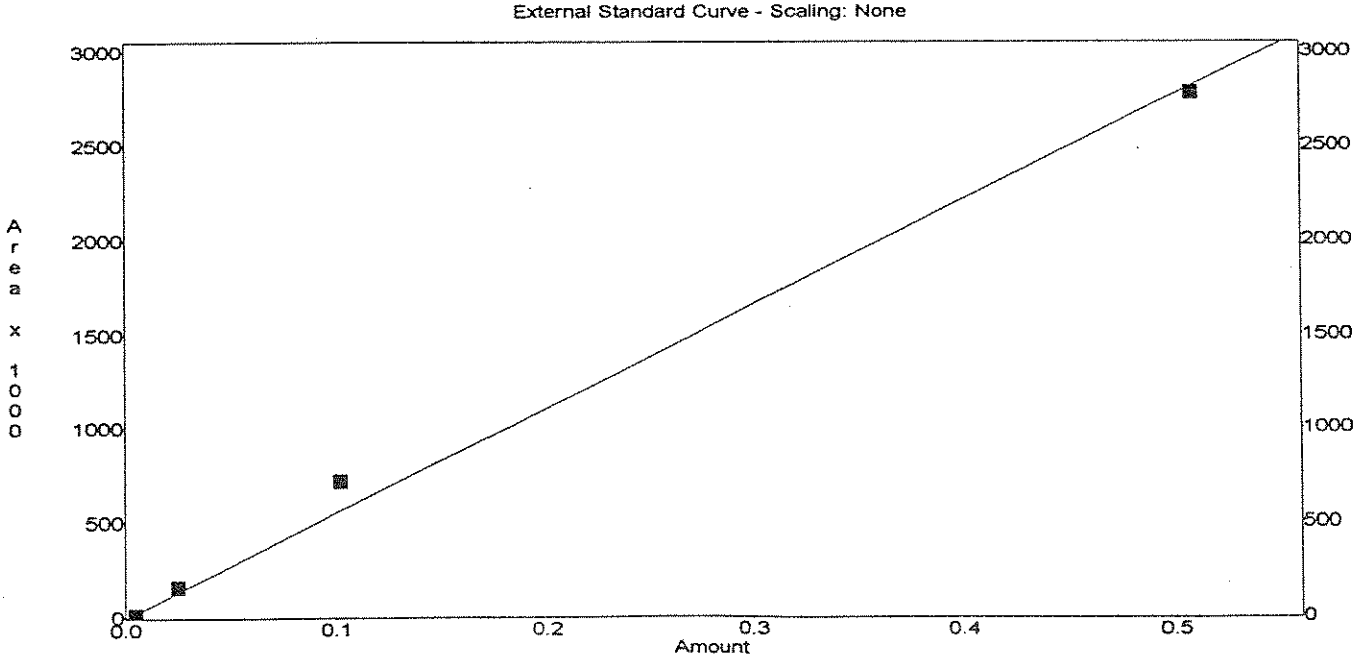
Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	13871	0.00508	3.662e-007	13871					0	0
2	162843	0.0254	1.56e-007	162843					0	0
3	713014	0.102	1.431e-007	713014					0	0
4	2777878	0.508	1.829e-007	2777878					0	0

Average RF: 2.12036e-007
RF StdDev: 1.04131e-007
RF %RSD: 49.1099

All FID

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.803e-007 x Area + 0.000e+000
R^2 = 0.9953



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:35:06
Channel : B
Peak : PCE

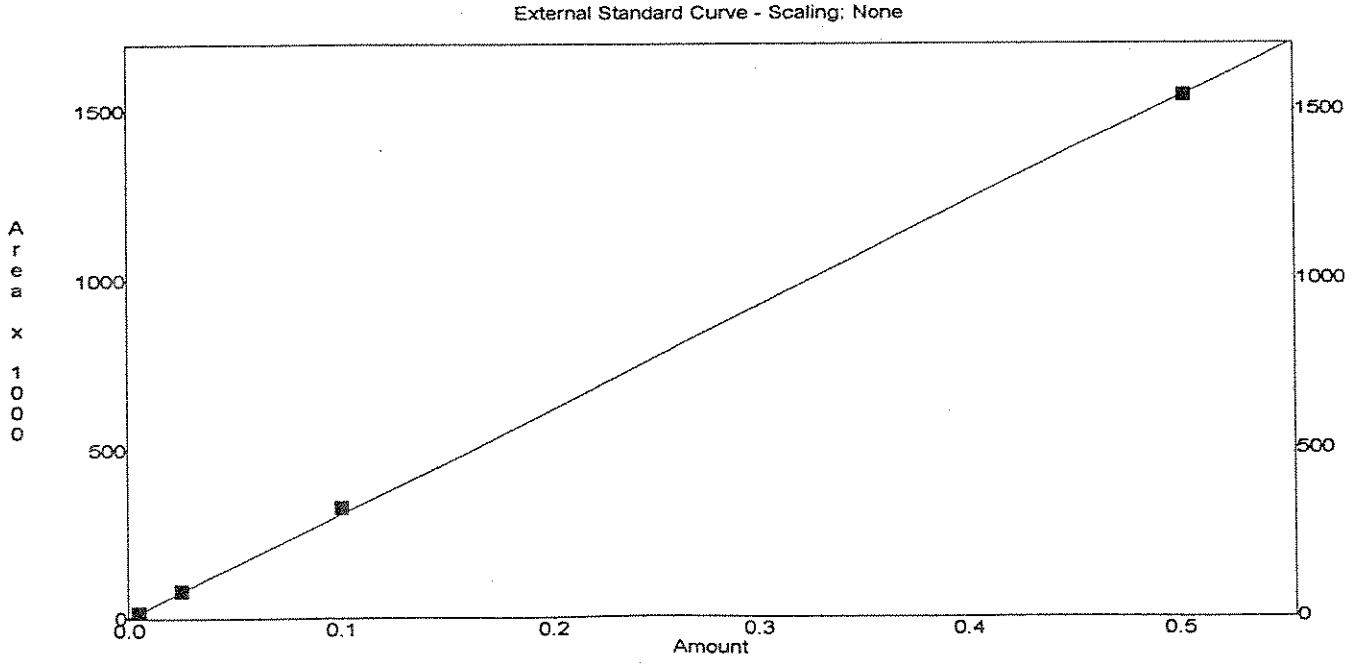
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	13848	0.00503	3.632e-007	13848					0	
2	77683	0.02515	3.238e-007	77683					0	
3	326181	0.1006	3.084e-007	326181					0	0
4	1543283	0.503	3.259e-007	1543283					0	0

Average RF: 3.30333e-007
RF StdDev: 2.32767e-008
RF %RSD: 7.04643

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 3.252e-007 x Area + 0.000e+000
R^2 = 0.9998



Method : C:\LABQUEST\METHODS\L1265_2.MET

Printed : Dec 20, 1995 09:35:08

Channel : B

Peak : CFB13

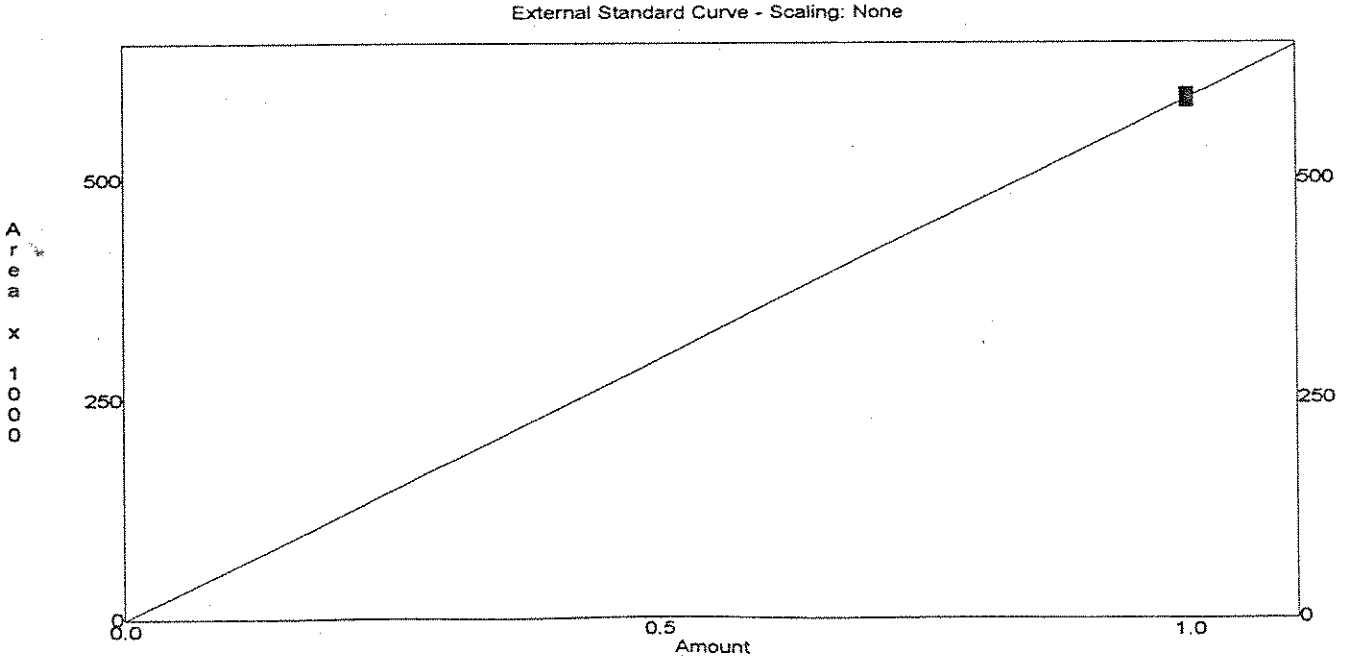
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	588755	1	1.698e-006	588755					0	0
2	587766	1	1.701e-006	587766					0	0
3	591477	1	1.691e-006	591477					0	0
4	594328	1	1.683e-006	594328					0	0

Average RF: 1.69328e-006
RF StdDev: 8.44256e-009
RF %RSD: 0.498593

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.693e-006 x Area + 0.000e+000
R^2 = 0.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:35:09
Channel : B
Peak : EB

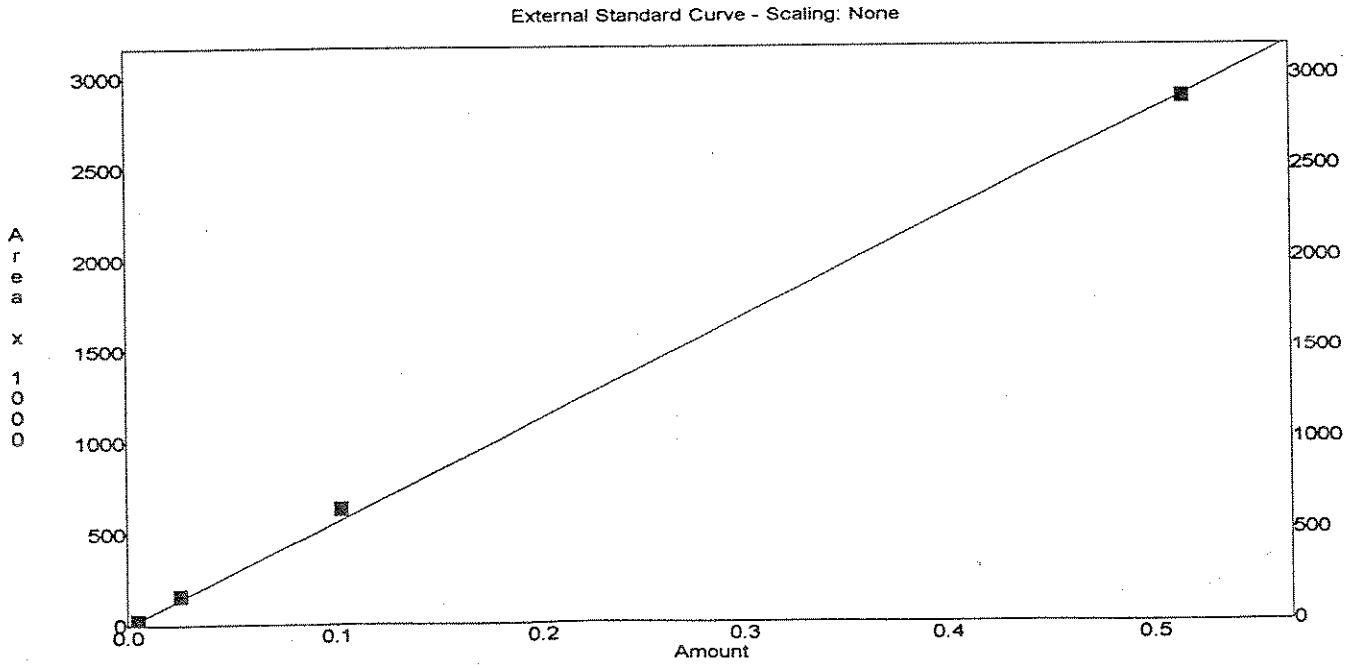
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	22242	0.00515	2.315e-007	22242					0	0
2	157223	0.0258	1.641e-007	157223					0	0
3	634366	0.103	1.624e-007	634366					0	0
4	2879405	0.515	1.789e-007	2879405					0	0

Average RF: 1.84217e-007
RF StdDev: 3.24093e-008
RF %RSD: 17.593

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.781e-007 x Area + 0.000e+000
R^2 = 0.9994



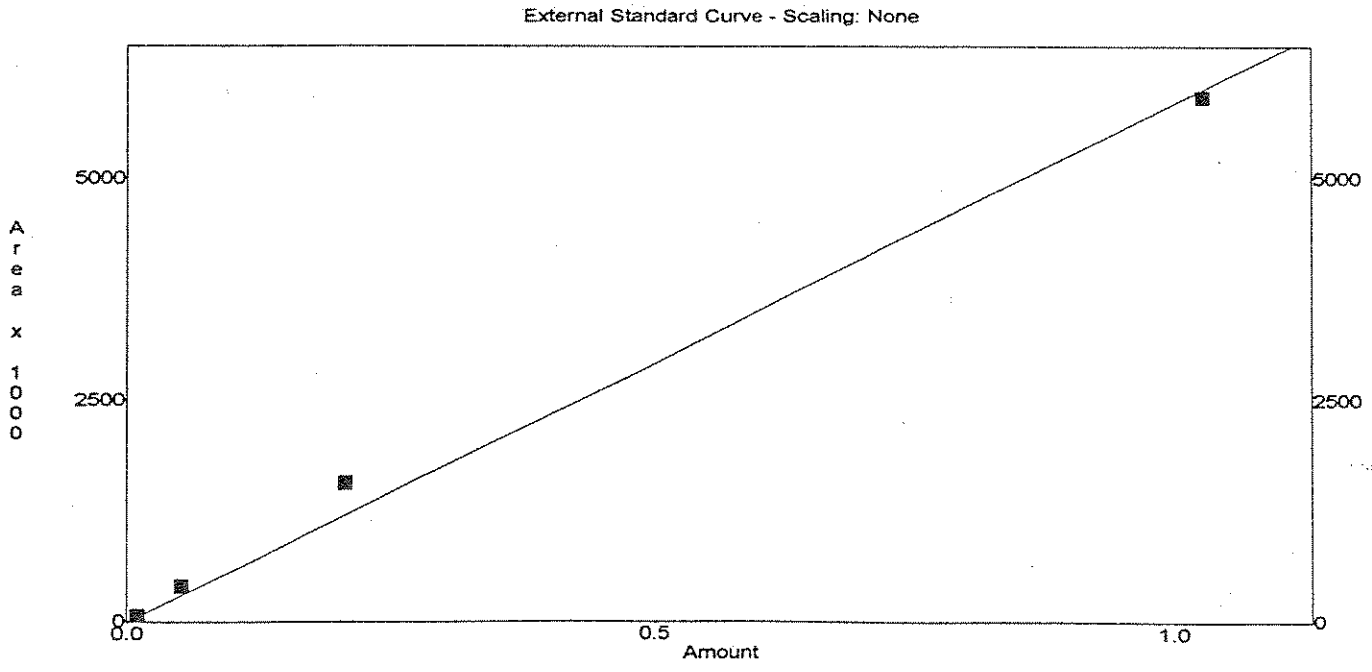
Method : C:\LABQUEST\METHODS\L1265_2.MET * - Replicate Not Used
Printed : Dec 20, 1995 09:35:10
Channel : B
Peak : XYLMP

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	58508	0.01028	1.757e-007	58508					0	0
2	395745	0.0514	1.299e-007	395745					0	0
3	1546353	0.2056	1.33e-007	1546353					0	0
4	5903419	1.028	1.741e-007	5903419					0	0

Average RF: 1.5317e-007
RF StdDev: 2.51544e-008
RF %RSD: 16.4226

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.713e-007 x Area + 0.000e+000
R^2 = 0.9940



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:35:11
Channel : B
Peak : XYLO

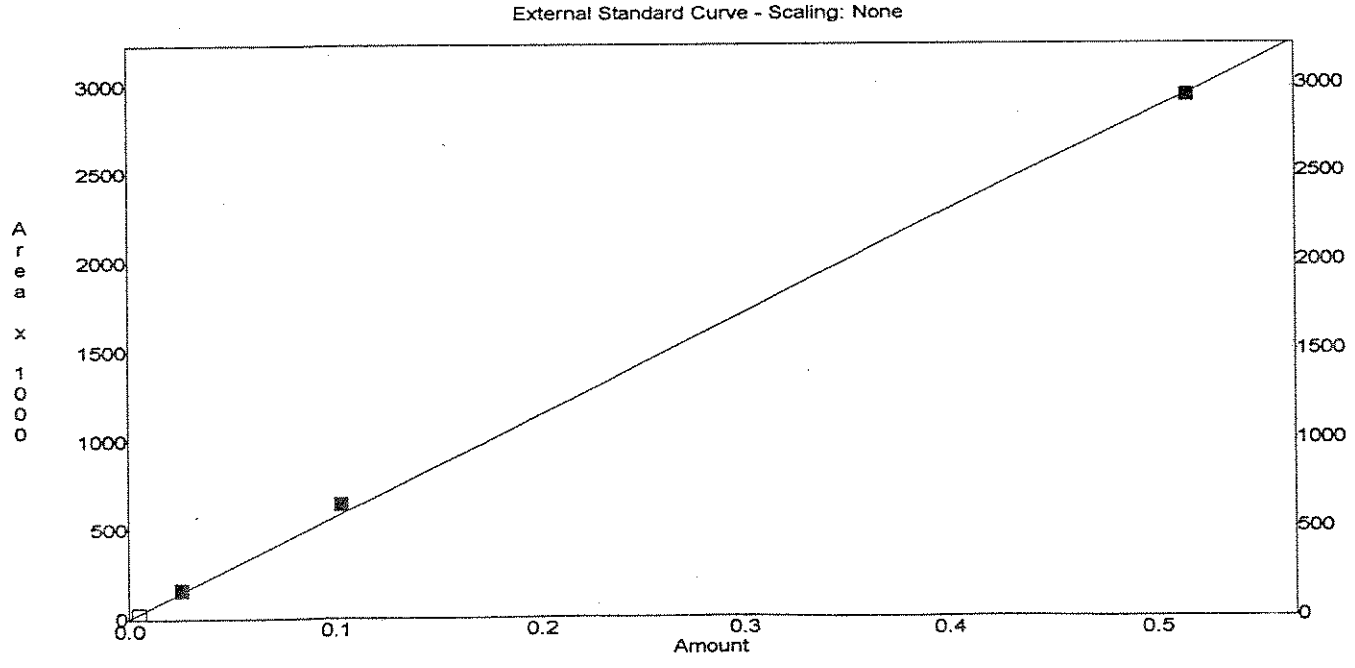
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	21025	0.00515	2.449e-007	21025*						
2	156758	0.0258	1.646e-007	156758					0	(
3	644150	0.103	1.599e-007	644150					0	0
4	2934470	0.515	1.755e-007	2934470					0	0

Average RF: 1.66662e-007
RF StdDev: 8.00446e-009
RF %RSD: 4.80281

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.748e-007 x Area + 0.000e+000
R^2 = 0.9993



Method : C:\LABQUEST\METHODS\L1265_2.MET

Printed : Dec 20, 1995 09:27:05

Channel : C

Peak : FR12

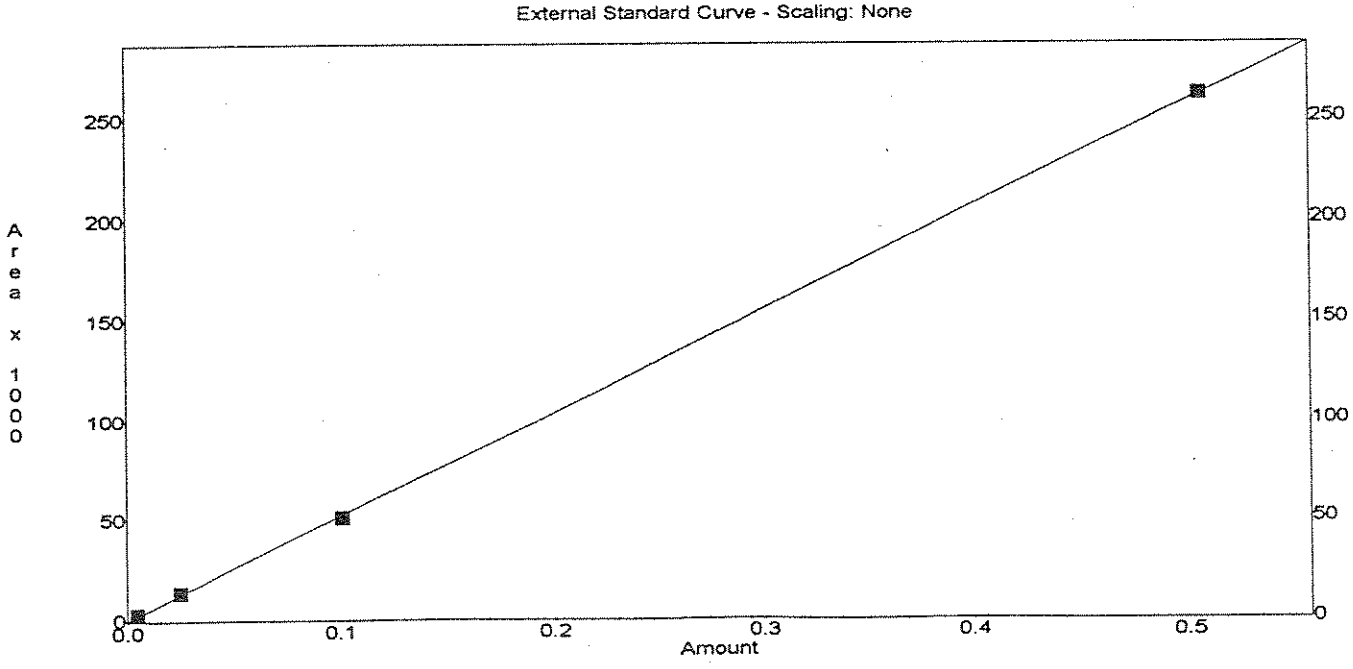
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	3184	0.00506	1.589e-006	3184					0	0
2	13731	0.0253	1.843e-006	13731					0	0
3	50729	0.1012	1.995e-006	50729					0	0
4	261955	0.506	1.932e-006	261955					0	0

Average RF: 1.83957e-006
RF StdDev: 1.78234e-007
RF %RSD: 9.68891

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.934e-006 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:11
Channel : C
Peak : VC

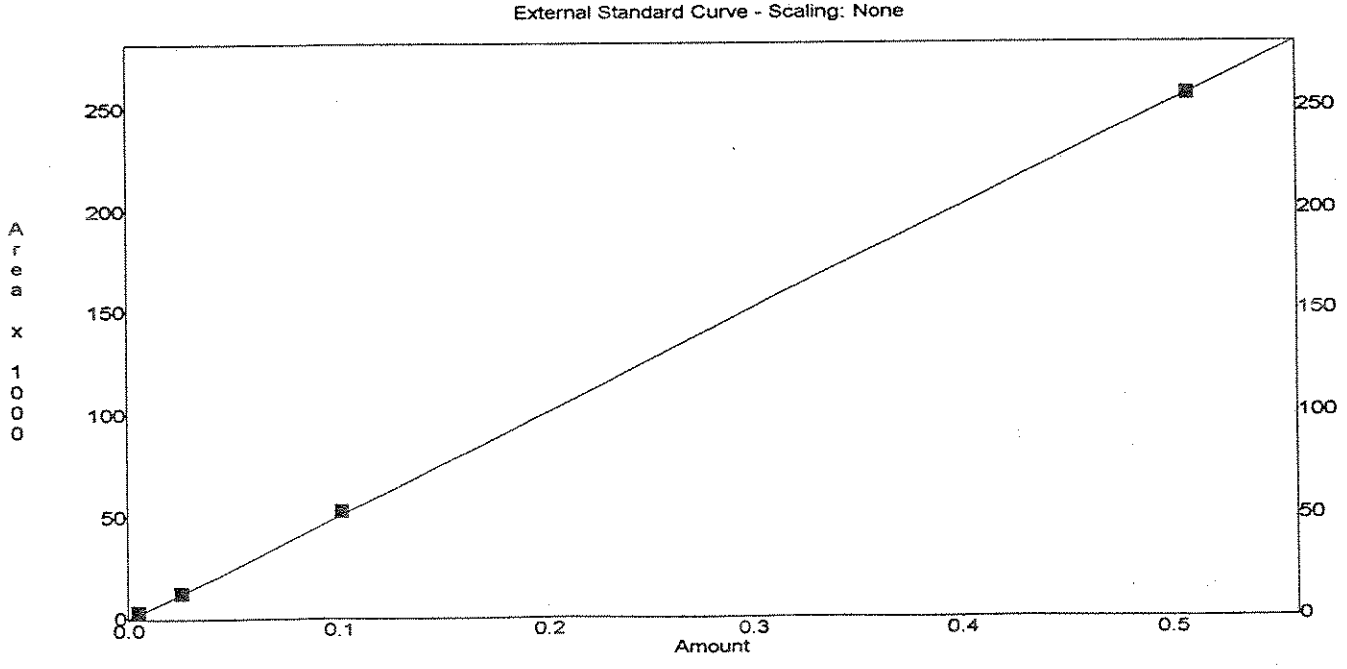
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	3322	0.00508	1.529e-006	3322					0	
2	12758	0.0254	1.991e-006	12758					0	
3	52611	0.1016	1.931e-006	52611					0	0
4	256190	0.508	1.983e-006	256190					0	0

Average RF: 1.85862e-006
RF StdDev: 2.21055e-007
RF %RSD: 11.8935

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.981e-006 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265_2.MET * - Replicate Not Used
Printed : Dec 20, 1995 09:27:13
Channel : C
Peak : CLET

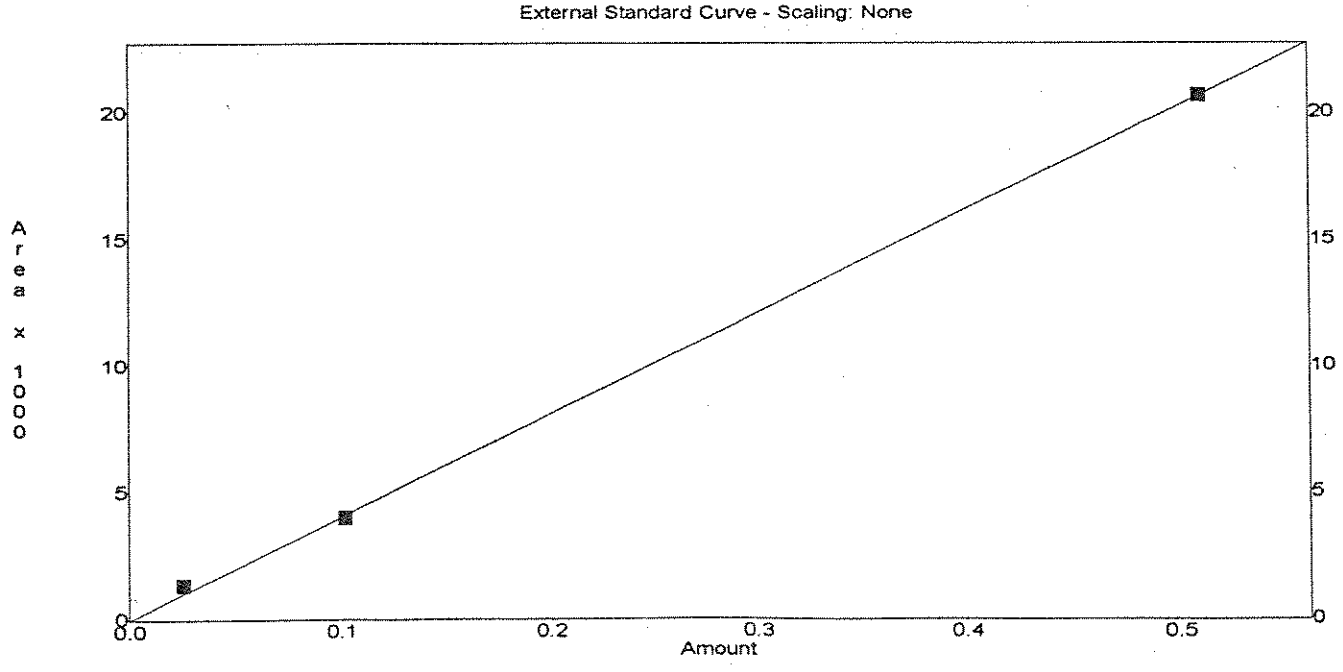
Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
2	1325	0.0255	1.925e-005	1325					0	0
3	3996	0.102	2.553e-005	3996					0	0
4	20654	0.51	2.469e-005	20654					0	0

See Hall detector

Average RF: 2.31567e-005
RF StdDev: 3.40668e-006
RF %RSD: 14.7114

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 2.470e-005 x Area + 0.000e+000
R^2 = 0.9995



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:14
Channel : C
Peak : DCE11+DCM

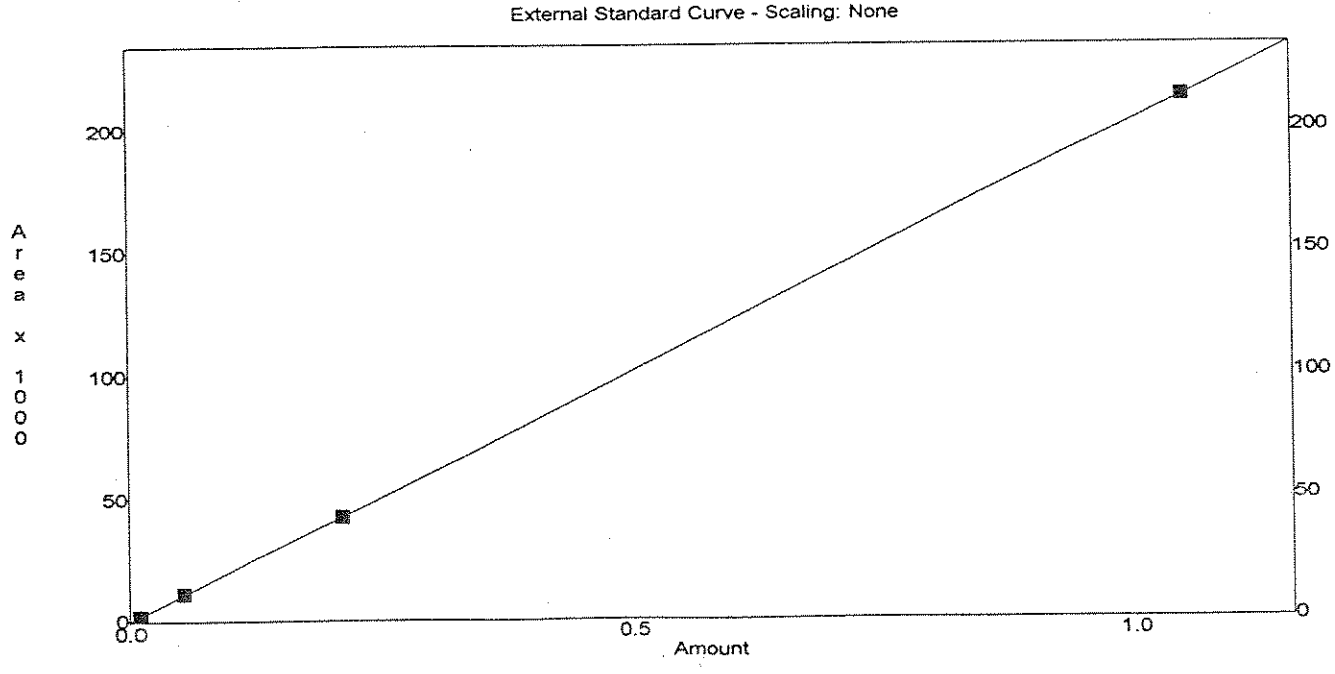
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	1730	0.01049	6.064e-006	1730					0	0
2	10729	0.05245	4.888e-006	10729					0	0
3	42442	0.2098	4.943e-006	42442					0	0
4	213105	1.049	4.922e-006	213105					0	0

Average RF: 5.20466e-006
RF StdDev: 5.73642e-007
RF %RSD: 11.0217

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 4.923e-006 x Area + 0.000e+000
R^2 = 1.0000



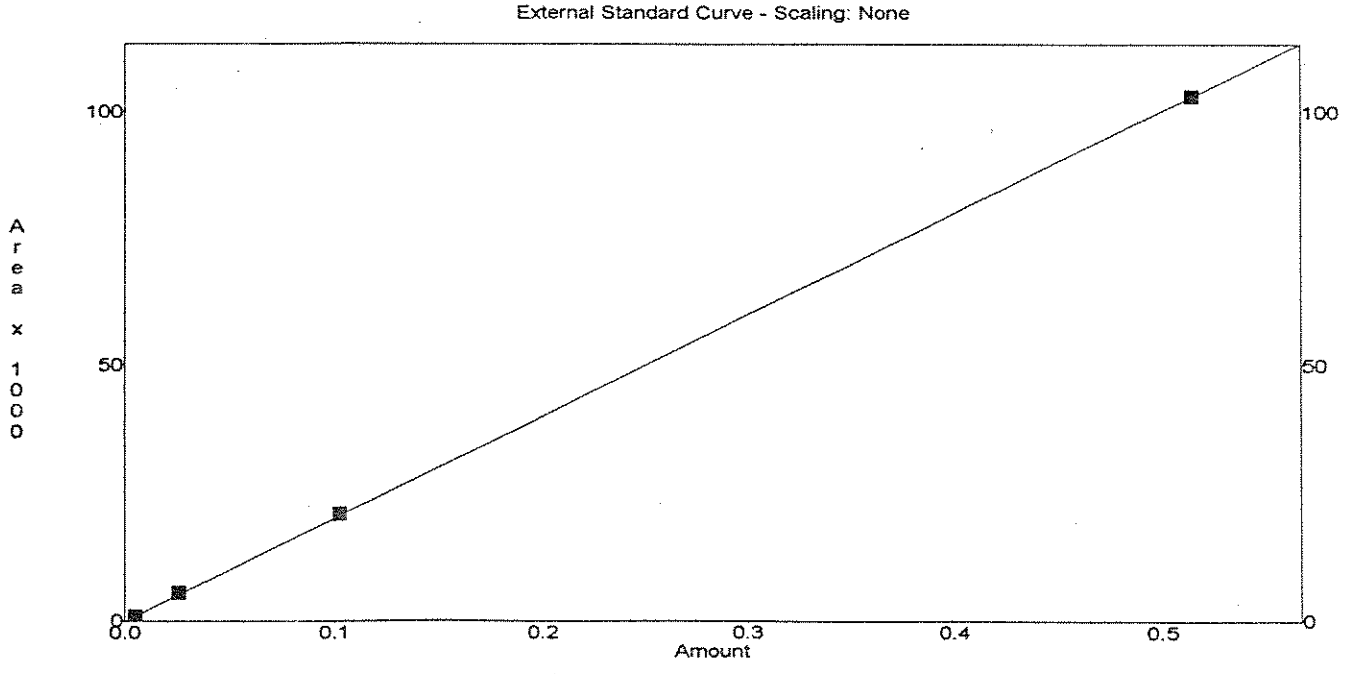
Method : C:\LABQUEST\METHODS\L1265_2.MET * - Replicate Not Used
Printed : Dec 20, 1995 09:27:15
Channel : C
Peak : FR11

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	851	0.00514	6.038e-006	851					0	0
2	5342	0.0257	4.811e-006	5342					0	0
3	20867	0.1028	4.926e-006	20867					0	0
4	103137	0.514	4.984e-006	103137					0	0

Average RF: 5.18969e-006
RF StdDev: 5.70228e-007
RF %RSD: 10.9877

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 4.981e-006 x Area + 0.000e+000
R^2 = 1.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:16
Channel : C
Peak : FR113

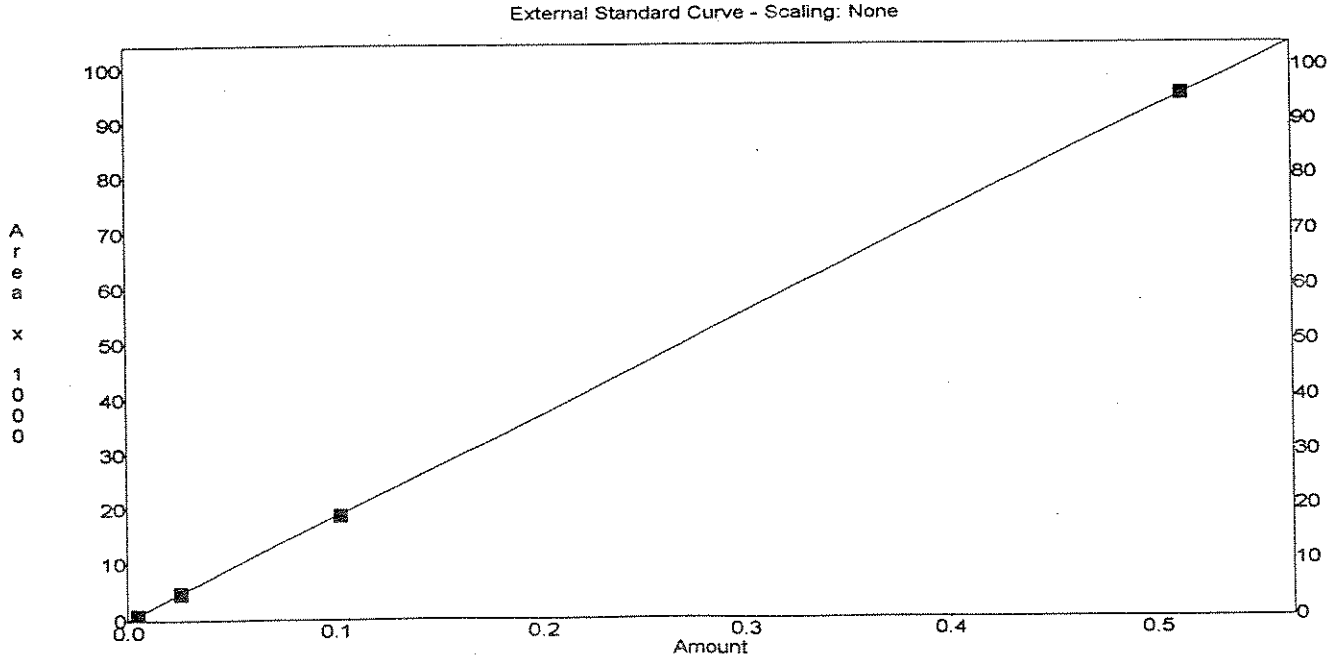
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	731	0.00513	7.018e-006	731					0	0
2	4604	0.0257	5.583e-006	4604					0	0
3	18579	0.1026	5.522e-006	18579					0	0
4	94846	0.513	5.409e-006	94846					0	0

Average RF: 5.88289e-006
RF StdDev: 7.60024e-007
RF %RSD: 12.9192

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 5.413e-006 x Area + 0.000e+000
R^2 = 1.0000



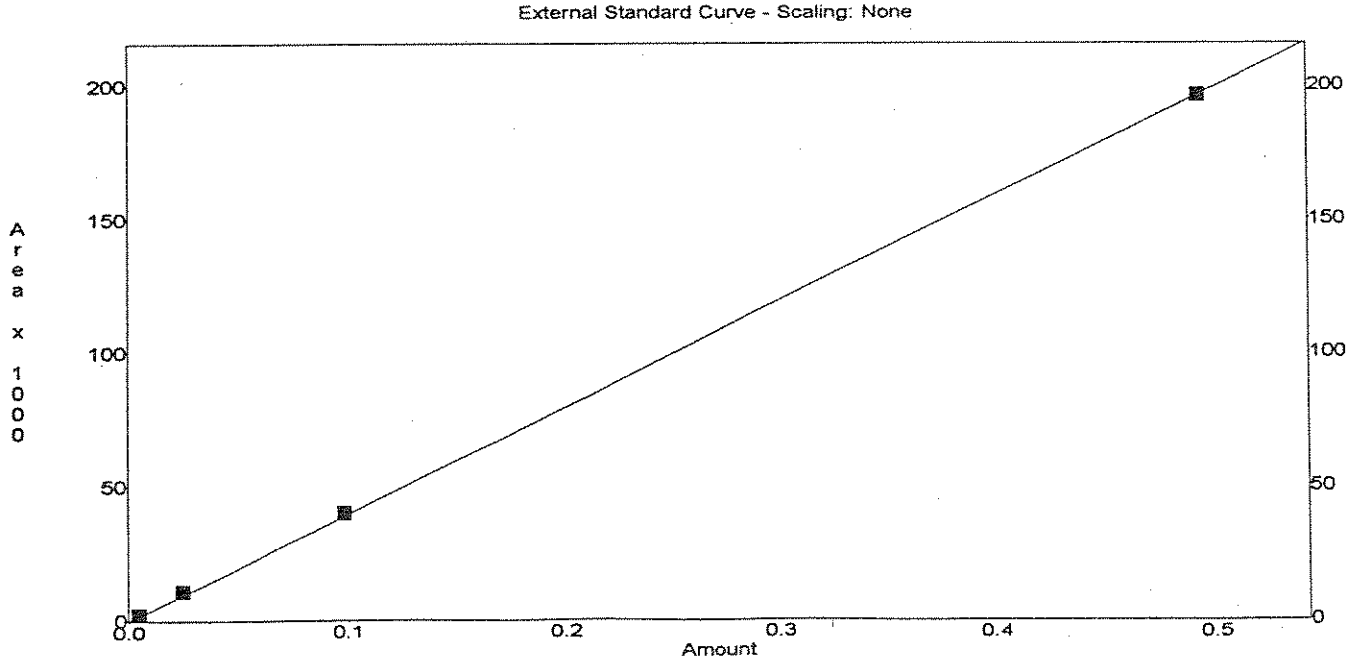
Method : C:\LABQUEST\METHODS\L1265_2.MET * - Replicate Not Used
Printed : Dec 20, 1995 09:27:18
Channel : C
Peak : DCE12T

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	2159	0.00493	2.283e-006	2159					0	0
2	10890	0.02465	2.263e-006	10890					0	0
3	40121	0.0986	2.458e-006	40121					0	0
4	196359	0.493	2.511e-006	196359					0	0

Average RF: 2.37874e-006
RF StdDev: 1.23866e-007
RF %RSD: 5.2072

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 2.508e-006 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:19
Channel : C
Peak : DCA11

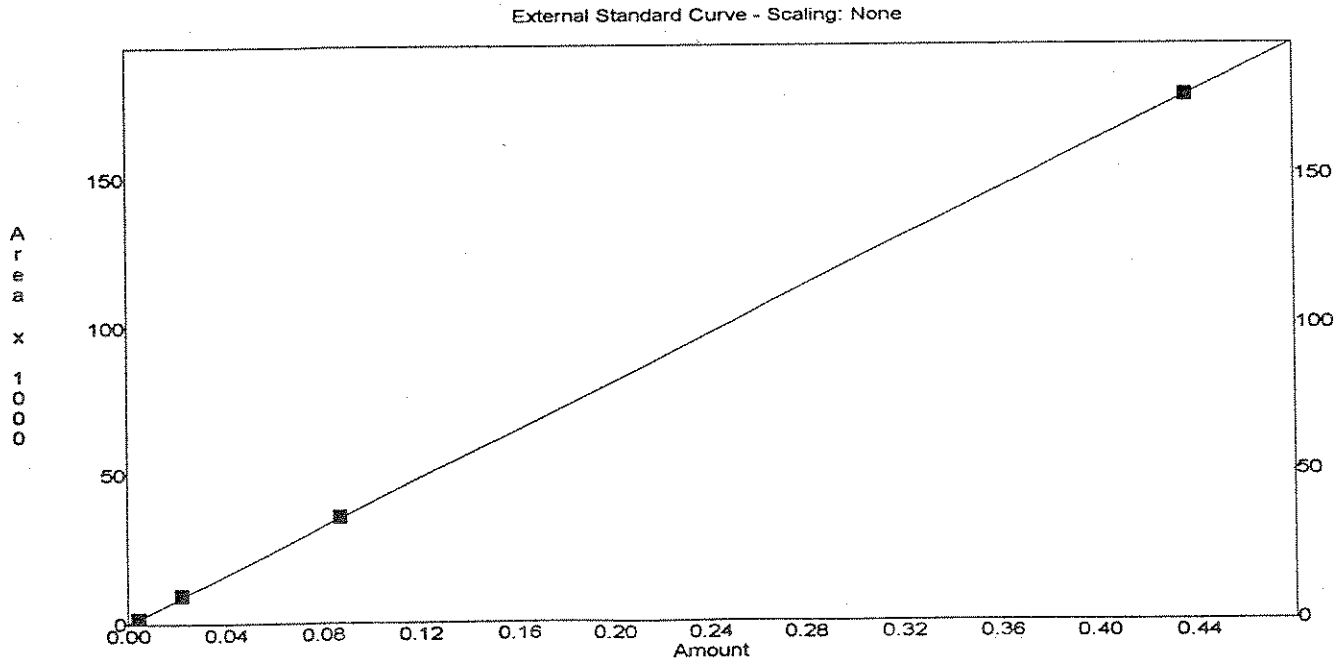
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	1622	0.00436	2.688e-006	1622					0	0
2	9458	0.0218	2.305e-006	9458					0	0
3	35716	0.0872	2.441e-006	35716					0	0
4	176746	0.436	2.467e-006	176746					0	0

Average RF: 2.47529e-006
RF StdDev: 1.58549e-007
RF %RSD: 6.40529

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 2.465e-006 x Area + 0.000e+000
R^2 = 1.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:20
Channel : C
Peak : DCE12C

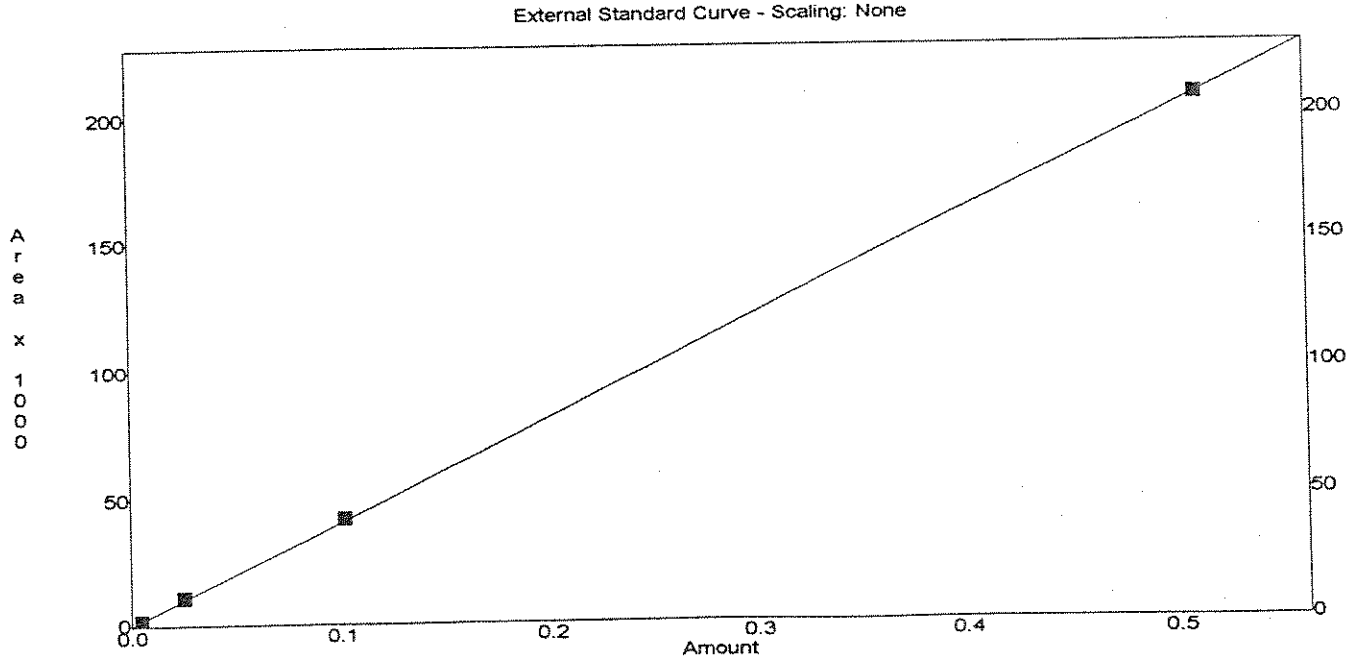
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	1755	0.0051	2.906e-006	1755					0	0
2	10819	0.0255	2.357e-006	10819					0	0
3	41909	0.102	2.434e-006	41909					0	0
4	206783	0.51	2.466e-006	206783					0	0

Average RF: 2.54072e-006
RF StdDev: 2.47513e-007
RF %RSD: 9.74185

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 2.465e-006 x Area + 0.000e+000
R^2 = 1.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:22
Channel : C
Peak : CLFM

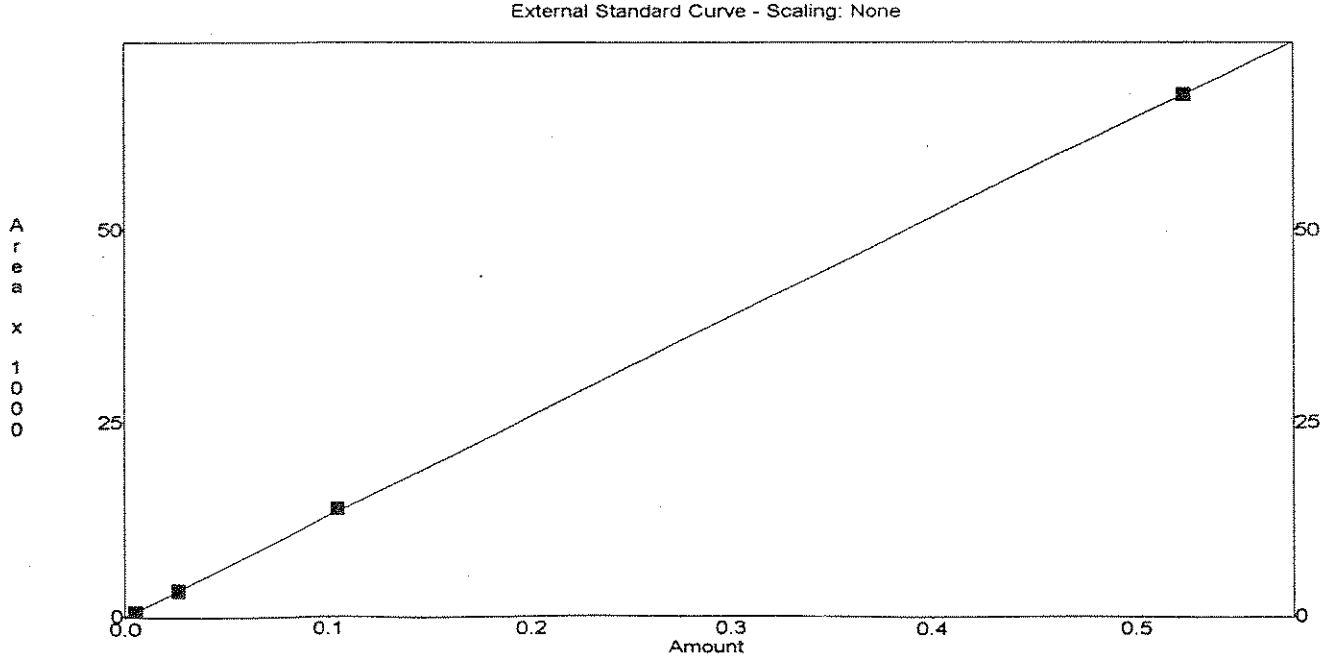
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	546	0.00523	9.579e-006	546					0	
2	3313	0.0262	7.909e-006	3313					0	
3	13899	0.105	7.555e-006	13899					0	0
4	67436	0.523	7.755e-006	67436					0	0

Average RF: 8.19961e-006
RF StdDev: 9.30827e-007
RF %RSD: 11.3521

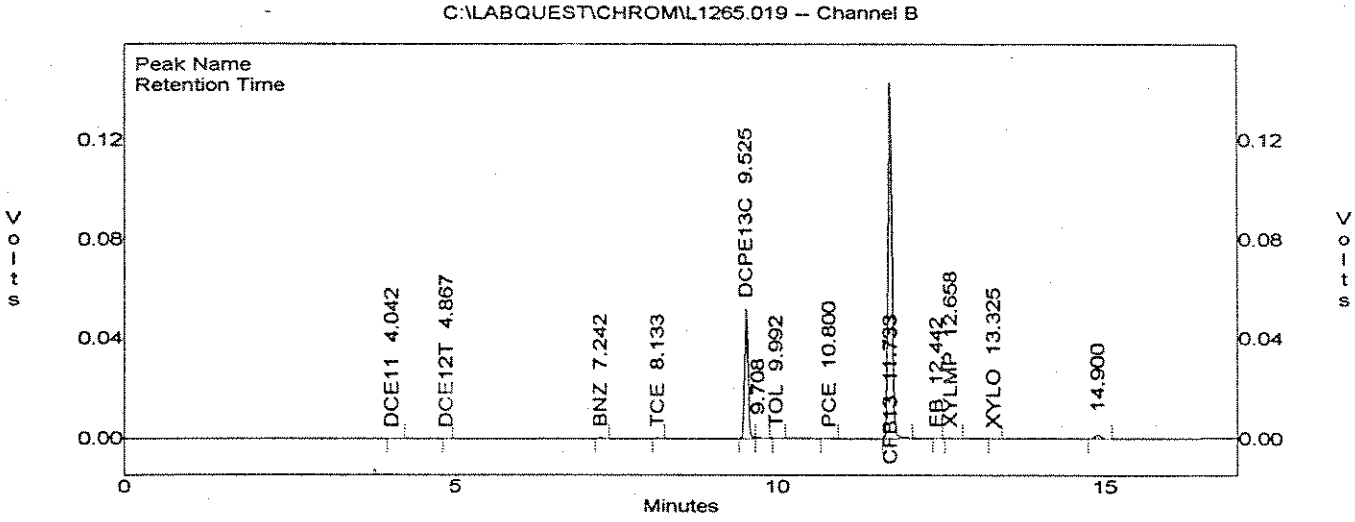
RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 7.748e-006 x Area + 0.000e+000
R^2 = 1.0000



Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.019
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : SYSTEM BLANK
Acquired : Dec 19, 1995 14:25:49
Printed : Dec 19, 1995 14:43:13
User : PAS



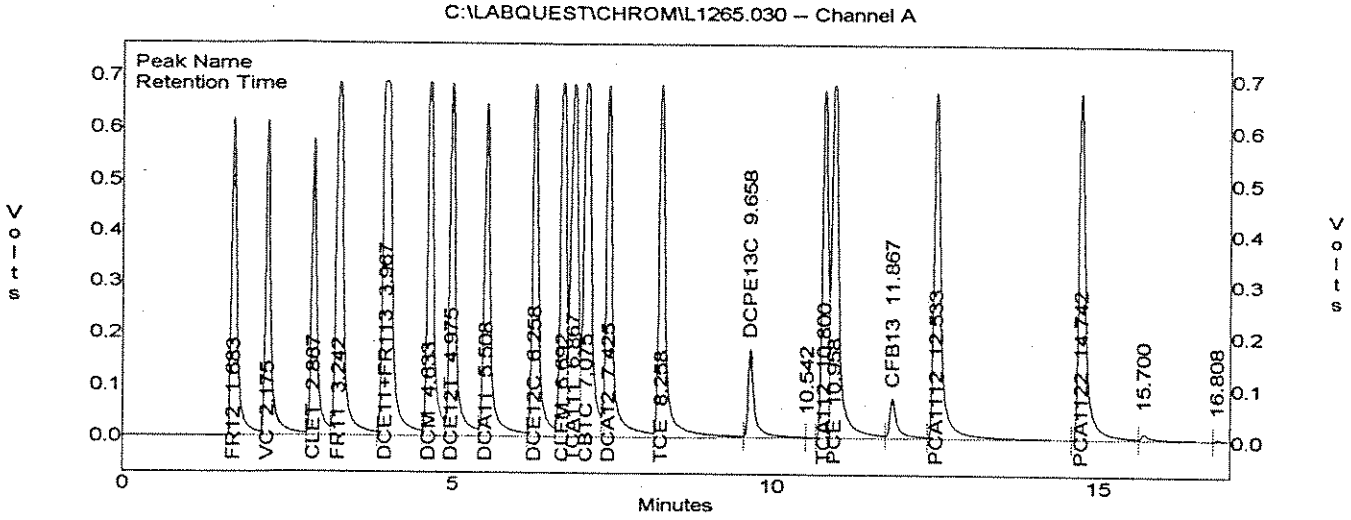
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.042	926	0.318	0
2	DCE12T	4.867	528	0.089	0
--	DCE12C	6.190	0	0.000	0
3	BNZ	7.242	794	0.117	0
4	TCE	8.133	1101	0.297	0
5	DCPE13C	9.525	197241	957.290	0
6		9.708	1928	0.000	0
7	TOL	9.992	664	0.101	0
8	PCE	10.800	1730	0.576	0
9	CFB13	11.733	584029	958.893	0
10	EB	12.442	500	0.090	0
11	XYLMP	12.658	1602	0.276	0
12	XYLO	13.325	638	0.111	0
13		14.900	11910	0.000	0

Totals :

	803595	1918.158

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.030
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 1000UL CAL9516
Acquired : Dec 20, 1995 08:13:53
Printed : Dec 20, 1995 08:31:19
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1	FR12	1.683	3617629	0.569	0
2	VC	2.175	3525511	0.573	0
3	CLET	2.867	3241175	0.585	0
4	FR11	3.242	5607854	0.553	0
5	DCE11+FR113	3.967	7257691	1.058	0
6	DCM	4.633	4708749	0.536	0
7	DCE12T	4.975	4664625	0.528	0
8	DCA11	5.508	4498464	0.476	0
9	DCE12C	6.258	4566902	0.540	0
10	CLFM	6.692	4700835	0.542	0
11	TCA111	6.867	5423823	0.561	0
12	CBTC	7.075	6173828	0.545	0
13	DCA12	7.425	5151291	0.542	0
14	TCE	8.258	5367297	0.538	0
15	DCPE13C	9.658	1270678	1.216	0
16		10.542	19036	0.000	0
17	TCA112	10.800	3950467	0.544	0
18	PCE	10.958	6020691	0.539	0
19	CFB13	11.867	670130	1.345	0
20	PCA1112	12.533	5399093	0.563	0
21	PCA1122	14.742	5065252	0.597	0
22		15.700	157051	0.000	0
23		16.808	15774	0.000	0

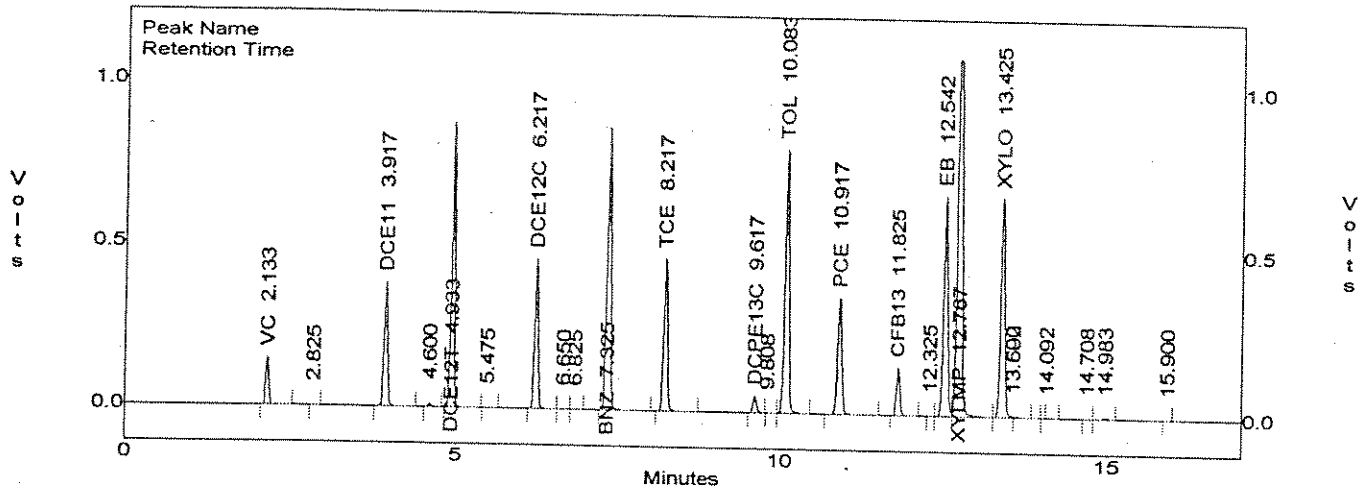
Totals :

	91073856	12.950

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.030
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 1000UL CAL9516
Acquired : Dec 20, 1995 08:13:53
Printed : Dec 20, 1995 08:31:24
User : PAS

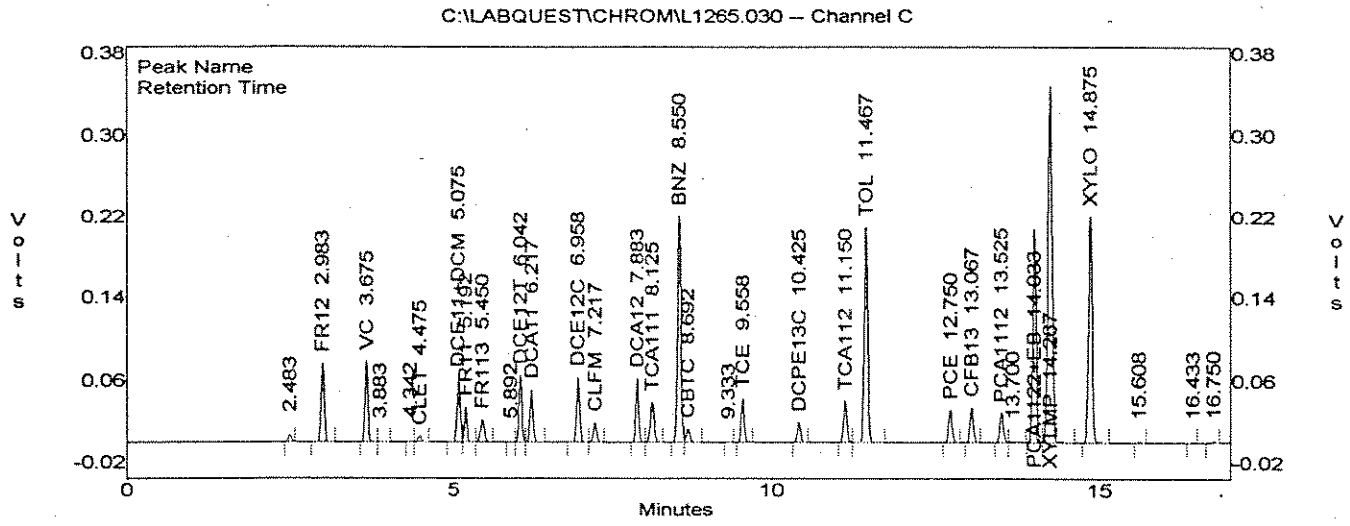
C:\LABQUEST\CHROM\L1265.030 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1	VC	2.133	502242	0.493	0
2		2.825	1618	0.000	0
3	DCE11	3.917	1452838	0.499	0
4		4.600	33922	0.000	0
5	DCE12T	4.933	2931266	0.493	0
6		5.475	1949	0.000	0
7	DCE12C	6.217	1689751	0.515	0
8		6.650	2053	0.000	0
9		6.825	863	0.000	0
10	BNZ	7.325	3537462	0.519	0
11	TCE	8.217	1883070	0.508	0
12	DCPE13C	9.617	199448	0.968	0
13		9.808	1512	0.000	0
14	TOL	10.083	3367976	0.513	0
15	PCE	10.917	1543282	0.514	0
16	CFB13	11.825	594327	0.976	0
17		12.325	588	0.000	0
18	EB	12.542	2879405	0.518	0
19	XYLMP	12.767	5903419	1.015	0
20	XYLO	13.425	2934469	0.511	0
21		13.592	20599	0.000	0
22		13.600	15776	0.000	0
23		14.092	4495	0.000	0
24		14.708	805	0.000	0
25		14.983	15933	0.000	0
26		15.900	681	0.000	0
Totals :			29519764	8.042	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.030
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 1000UL CAL9516
Acquired : Dec 20, 1995 08:13:53
Printed : Dec 20, 1995 08:31:26
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.483	24333	0.000	0
2	FR12	2.983	261955	0.523	0
3	VC	3.675	256189	0.525	0
4		3.883	581	0.000	0
5		4.342	1464	0.000	0
6	CLET	4.475	20654	0.531	0
7	DCE11+DCM	5.075	213105	1.095	0
8	FR11	5.192	103137	0.538	0
9	FR113	5.450	94846	0.541	0
10		5.892	847	0.000	0
11	DCE12T	6.042	196359	0.520	0
12	DCA11	6.217	176745	0.458	0
13	DCE12C	6.958	206783	0.542	0
14	CLFM	7.217	67436	0.557	0
15	DCA12	7.883	204892	0.546	0
16	TCA111	8.125	158596	0.555	0
17	BNZ	8.550	783850	0.550	0
18	CBTC	8.692	51445	0.543	0
19		9.333	527	0.000	0
20	TCE	9.558	149166	0.533	0
21	DCPE13C	10.425	66972	1.036	0
22	TCA112	11.150	149058	0.544	0
23	TOL	11.467	766234	0.540	0
24	PCE	12.750	119351	0.540	0
25	CFB13	13.067	122458	1.040	0
26	PCA1112	13.525	114958	0.546	0
27		13.700	1565	0.000	0
28	PCA1122+EB	14.033	766863	1.086	0
29	XYLMP	14.267	1518245	1.074	0
30	XYLO	14.875	873025	0.541	0
31		15.608	1583	0.000	0
32		16.433	1456	0.000	0
33		16.750	2368	0.000	0

Continued...

File : C:\LABQUEST\CHROM\L1265.030
Method : C:\LABQUEST\METHODS\L1265.MET
Sample ID : 1000UL CAL9516
Acquired : Dec 20, 1995 08:13:53
Printed : Dec 20, 1995 08:31:28
User : PAS

Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
Totals :					
			7477058	15.504	

HYDRO GEO CHEM, INC.

INITAL CALIBRATION DATA

Project: Fugro/Burbank
Project #: L1265

Date Calibrated: December 20, 1995.
Analyst: P. Schumann
Instrument ID#: 3400-4199

CALIBRATION LEVEL	1	2	3
Labquest File number:	L1265.031	L1265.032	L1265.027
Time Injected:	08:37	09:00	06:57
Volume injected(ul):	50	50	200
Standard Used:	CAL9516-2	CAL9516	CAL9516

Compound Name	DETECTOR	RT (min)	STD CONC (ug)	AREA	Rf	RT (min)	STD CON (ug)	AREA	Rf	RT (min)	STD CON (ug)	AREA	Rf
Dichlorodifluoromethane	ELCD	1.62	0.0058	38395	1.5E-07	1.63	0.0253	191021	1.3E-07	1.59	0.1012	552334	1.8E-07
Vinyl Chloride	ELCD	2.13	0.0056	46781	1.2E-07	2.13	0.0254	201630	1.3E-07	2.08	0.1016	509462	1.7E-07
Chloroethane	ELCD	2.84	0.006	41422	1.4E-07	2.83	0.0255	185010	1.4E-07	2.77	0.102	564569	1.8E-07
Trichlorofluoromethane	ELCD	3.23	0.00514	58727	8.8E-08	3.22	0.0257	389275	6.6E-08	3.15	0.1028	1176248	8.7E-08
Dichloromethane	ELCD	4.63	0.00509	50454	1E-07	4.61	0.0255	385724	6.6E-08	4.53	0.1018	1079778	9.4E-08
1,1-Dichloroethene + F113	ELCD	3.95	0.0102	84917	1.2E-07	3.94	0.0509	618581	8.2E-08	3.88	0.2036	1867073	1.1E-07
trans-1,2-Dichloroethene	ELCD	4.97	0.00493	49212	1E-07	4.95	0.0247	355588	6.9E-08	4.87	0.0986	988657	1E-07
1,1-Dichloroethane	ELCD	5.52	0.00436	39733	1.1E-07	5.49	0.0218	291890	7.5E-08	5.42	0.0872	903002	9.7E-08
cis-1,2-Dichloroethene	ELCD	6.27	0.0051	42944	1.2E-07	6.23	0.0255	326818	7.8E-08	6.16	0.102	999747	1E-07
Chloroform	ELCD	9.71	0.00523	58524	8.9E-08	6.67	0.0262	325028	8.1E-08	6.59	0.105	1094091	9.6E-08
1,1,1-Trichloroethane	ELCD	6.88	0.00524	53697	9.8E-08	6.85	0.0262	408063	6.4E-08	6.77	0.1048	1242811	8.4E-08
Carbon Tetrachloride	ELCD	7.09	0.0051	67851	7.5E-08	7.05	0.0255	464142	5.5E-08	6.97	0.102	1471775	6.9E-08
1,2-Dichloroethane	ELCD	7.43	0.00511	52704	9.7E-08	7.4	0.0256	409746	6.2E-08	7.332	0.1022	1217348	8.4E-08
Trichloroethene	ELCD	8.27	0.00501	66387	7.5E-08	8.23	0.0251	349657	7.2E-08	8.16	0.1002	1179793	8.5E-08
1,1,2-Trichloroethane	ELCD	10.82	0.00505	53697	9.4E-08	10.78	0.0253	408063	6.2E-08	10.7	0.101	1242811	8.1E-08
1,1,2-Trichloroethane	FID	1.11	0.00505	1447	3.5E-06	10.78	0.0253	7966	3.2E-06	10.7	0.101	30882	3.3E-06
Tetrachloroethene	ELCD	10.97	0.00503	94077	5.3E-08	10.93	0.0252	489033	5.2E-08	10.86	0.1006	1494046	6.7E-08
1112 tetrachloroethane	ELCD	12.55	0.00504	70900	7.1E-08	12.5	0.0252	329680	7.6E-08	12.43	0.1008	1133019	8.9E-08
1122 tetrachloroethane	ELCD	14.77	0.00512	53930	9.5E-08	14.71	0.0256	328632	7.8E-08	14.64	0.1024	1186735	8.6E-08
1,1-Dichloroethene	**PID**	**3.91**	**0.00504**	**9020**	**5.6E-07**	**3.89**	**0.0252**	**65497**	**3.8E-07**	**3.83**	**0.1008**	**289339**	**3.5E-07**
Benzene	PID	7.33	0.00519	25038	2.1E-07	7.31	0.026	180629	1.4E-07	7.23	0.1038	751012	1.4E-07
Benzene	FID	8.56	0.00519	7259	7.1E-07	8.53	0.026	41172	6.3E-07	8.43	0.1038	161202	6.4E-07
Toluene	FID	11.48	0.00508	6934	7.3E-07	11.43	0.0254	41395	6.1E-07	11.34	0.102	160581	6.4E-07
Ethyl Benzene	PID	12.56	0.00515	22242	2.3E-07	12.51	0.0258	157223	1.6E-07	12.44	0.103	634366	1.6E-07
Ethyl Benzene + 1122PCA	FID	14.05	0.00515	7172	7.2E-07	13.99	0.0258	42082	6.1E-07	13.92	0.103	162285	6.3E-07
m/p-Xylene	PID	12.77	0.01028	58508	1.8E-07	12.72	0.0514	395745	1.3E-07	12.65	0.2056	1546353	1.3E-07
m/p-Xylene	FID	14.28	0.01028	14450	7.1E-07	14.23	0.0514	86573	5.9E-07	14.14	0.2056	325641	6.3E-07
o-Xylene	FID	14.89	0.00514	21025	2.4E-07	14.83	0.0258	156758	1.6E-07	14.75	0.103	644150	1.6E-07
1,1,2-Trichlorotrifluoroethane	FID	5.44	0.00513	731	7E-06	5.43	0.0257	4604	5.6E-06	5.34	0.1026	18579	5.5E-06

Shaded data were not used to calculate average Rf or %RSD values.

BGPAA 0270

Pr inar ta

HYDRO GEO CHEM, INC.

INITAL CALIBRATION DATA

Project: Fugro/Burbank
Project #: L1265

Date Calibrated: December 20, 1995.
Analyst: P. Schumann
Instrument ID#: 3400-4199

CALIBRATION LEVEL	4
Labquest File number:	L1265.030
Time Injected:	08:13
Volume injected(ul):	1000
Standard Used:	CAL9516

Compound Name	DETECTOR	RT (min)	STD CON (ug)	AREA	Rf	AVE Rf	SD	RSD	Control Limits (%)	Comments
Dichlorodifluoromethane	ELCD	1.68	0.506	3617629	1.4E-07	1.4E-07	7.7E-09	5	+/- 30	
Vinyl Chloride	ELCD	2.18	0.508	3525512	1.4E-07	1.3E-07	1E-08	8	+/- 30	
Chloroethane	ELCD	2.86	0.51	3241175	1.6E-07	1.5E-07	1.6E-08	11	+/- 30	
Trichlorofluoromethane	ELCD	3.24	0.514	5607854	9.2E-08	8.3E-08	1E-08	12	+/- 30	
Dichloromethane	ELCD	4.63	0.509	4708750	1.1E-07	1E-07	5.6E-09	6	+/- 20	
1,1-Dichloroethene + F113	ELCD	3.97	1.018	7257691	1.4E-07	1.1E-07	1.3E-08	11	+/- 20	
trans-1,2-Dichloroethene	ELCD	4.98	0.493	4664625	1.1E-07	9.4E-08	1.4E-08	15	+/- 20	
1,1-Dichloroethane	ELCD	5.51	0.436	4498465	9.7E-08	9.4E-08	1.3E-08	13	+/- 20	
cis-1,2-Dichloroethene	ELCD	6.26	0.51	4566903	1.1E-07	1E-07	1.5E-08	15	+/- 20	
Chloroform	ELCD	6.69	0.523	6088185	8.6E-08	8.8E-08	5.6E-09	6	+/- 20	
1,1,1-Trichloroethane	ELCD	6.87	0.524	5423824	9.7E-08	8.6E-08	1.3E-08	16	+/- 20	
Carbon Tetrachloride	ELCD	7.08	0.51	6173829	8.3E-08	7.1E-08	1E-08	14	+/- 20	
1,2-Dichloroethane	ELCD	7.43	0.511	5151292	9.9E-08	8.6E-08	1.5E-08	17	+/- 20	
Trichloroethene	ELCD	8.26	0.501	5260892	9.5E-08	8.2E-08	9.1E-09	11	+/- 20	
1,1,2-Trichloroethane	ELCD	10.8	0.505	5423824	9.3E-08	8.3E-08	1.5E-08	18	+/- 20	
1,1,2-Trichloroethane	FID	10.8	0.505	149059	3.4E-06	3.4E-06	1.3E-07	4	+/- 20	
Tetrachloroethene	ELCD	10.96	0.503	6020692	8.4E-08	5.7E-08	8.7E-09	15	+/- 20	
1112 tetrachloroethane	ELCD	12.53	0.504	5399093	9.3E-08	8.2E-08	9E-09	11	+/- 20	
1122 tetrachloroethane	ELCD	14.74	0.512	5065253	1E-07	9E-08	8.8E-09	10	+/- 20	
1,1-Dichloroethene	**PID**	**3.92**	**0.504**	**1452839**	**3.5E-07**	**4.1E-07**	**8.7E-08**	**21**	**+/- 20**	**See ELCD data**
Benzene	PID	7.33	0.519	3438298	1.5E-07	1.6E-07	2.8E-08	17	+/- 20	
Benzene	FID	8.55	0.519	783851	6.6E-07	6.6E-07	3.2E-08	5	+/- 20	
Toluene	FID	11.47	0.508	766235	6.6E-07	6.6E-07	4.5E-08	7	+/- 20	
Ethyl Benzene	PID	12.54	0.515	2879405	1.8E-07	1.8E-07	2.8E-08	15	+/- 20	
Ethyl Benzene + 1122PCA	FID	14.03	0.515	766863	6.7E-07	1.3E-06	4E-08	3	+/- 20	
m/p-Xylene	PID	12.77	1.028	5903419	1.7E-07	1.5E-07	2.2E-08	14	+/- 20	
m/p-Xylene	FID	14.27	1.028	1518246	6.8E-07	6.5E-07	4.5E-08	7	+/- 20	
o-Xylene	FID	14.87	0.515	2934470	1.8E-07	1.9E-07	3.4E-08	18	+/- 20	
1,1,2-Trichlorotrifluoroethane	FID	5.45	0.513	94846	5.4E-06	5.9E-06	6.6E-07	11	+/- 30	

Shaded data were not used to calculate average Rf or %RSD values.

BGPAA 0271

Preliminary Data

Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:39:51
Channel : A
Peak : FR12

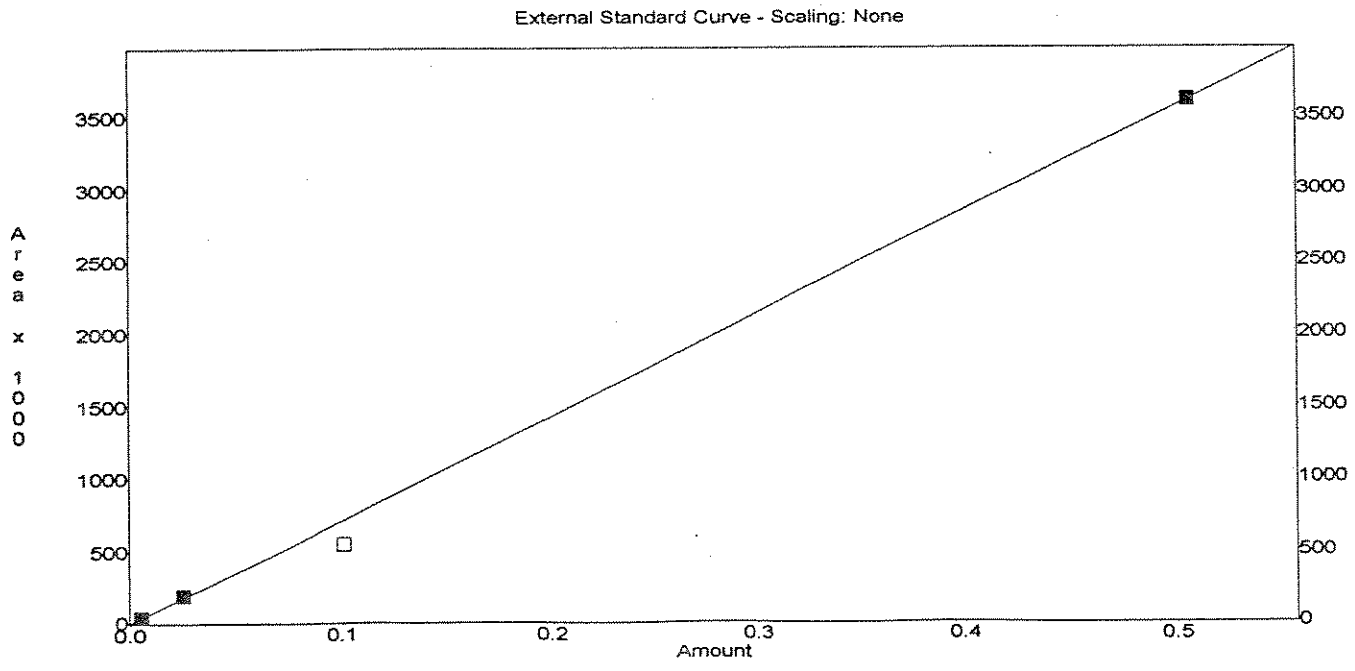
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	38395	0.0058	1.511e-007	38395					0	(
2	191021	0.0253	1.324e-007	191021					0	(
3	552334	0.1012	1.832e-007	552334*						
4	3617629	0.506	1.399e-007	3617629					0	0

Average RF: 1.41127e-007
RF StdDev: 9.37141e-009
RF %RSD: 6.64043

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.399e-007 x Area + 0.000e+000
R^2 = 1.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:39:53
Channel : A
Peak : VC

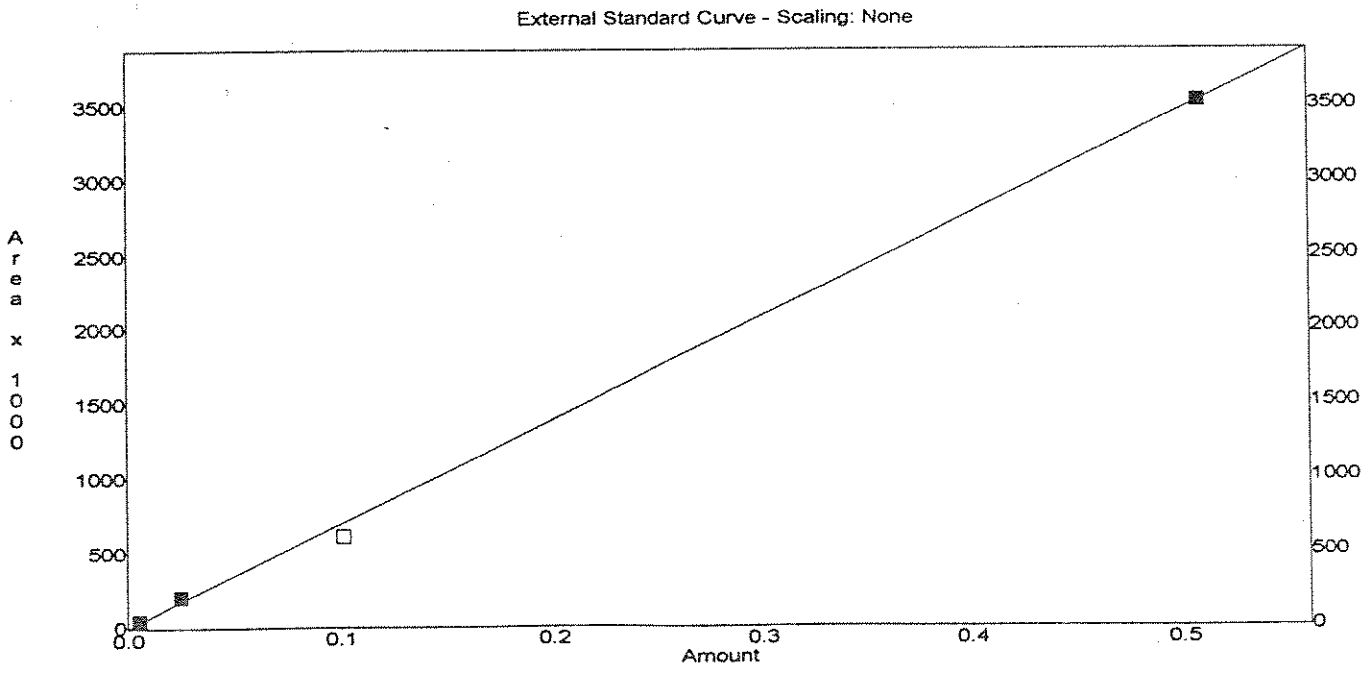
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	46781	0.0056	1.197e-007	46781					0	0
2	201630	0.0254	1.26e-007	201630					0	0
3	609482	0.1016	1.667e-007	609482*						
4	3525512	0.508	1.441e-007	3525512					0	0

Average RF: 1.29924e-007
RF StdDev: 1.26639e-008
RF %RSD: 9.74712

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.440e-007 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:39:54
Channel : A
Peak : CLET

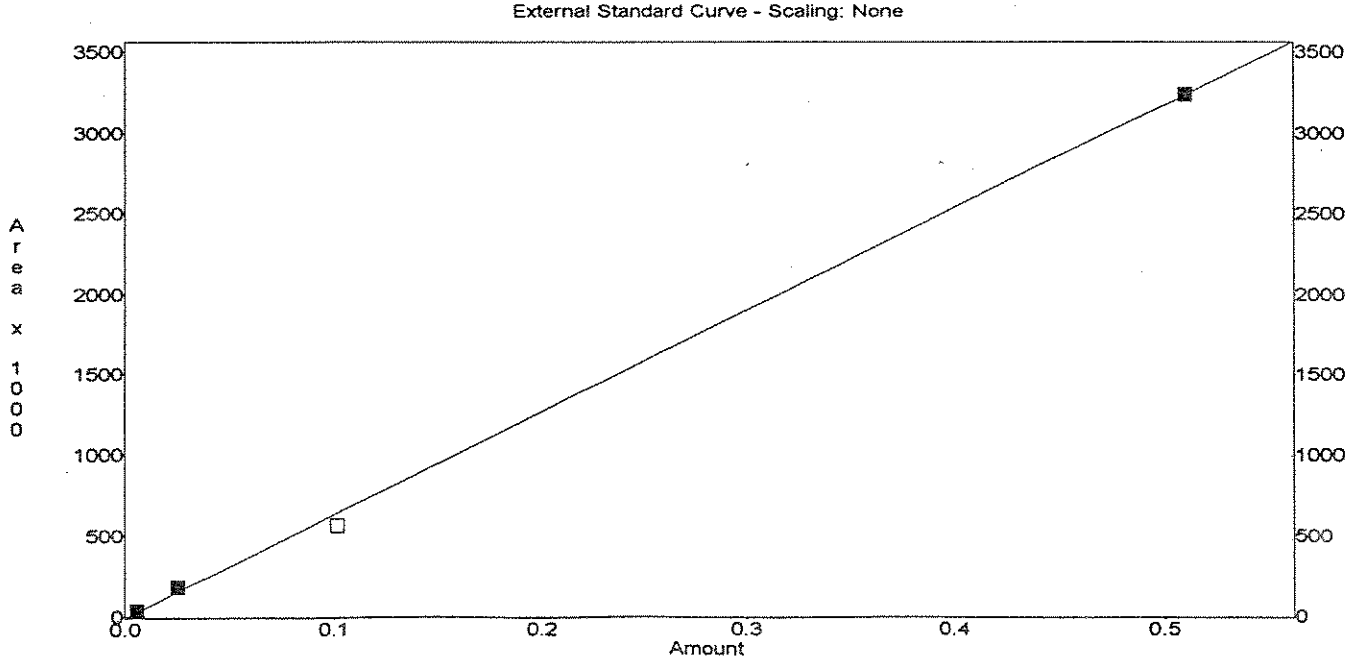
* - Replicate Not Used.

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	41422	0.006	1.449e-007	41422					0	
2	185010	0.0255	1.378e-007	185010					0	
3	564369	0.102	1.807e-007	564369*						
4	3241175	0.51	1.574e-007	3241175					0	0

Average RF: 1.46678e-007
RF StdDev: 9.88716e-009
RF %RSD: 6.74074

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.573e-007 x Area + 0.000e+000
R^2 = 0.9999



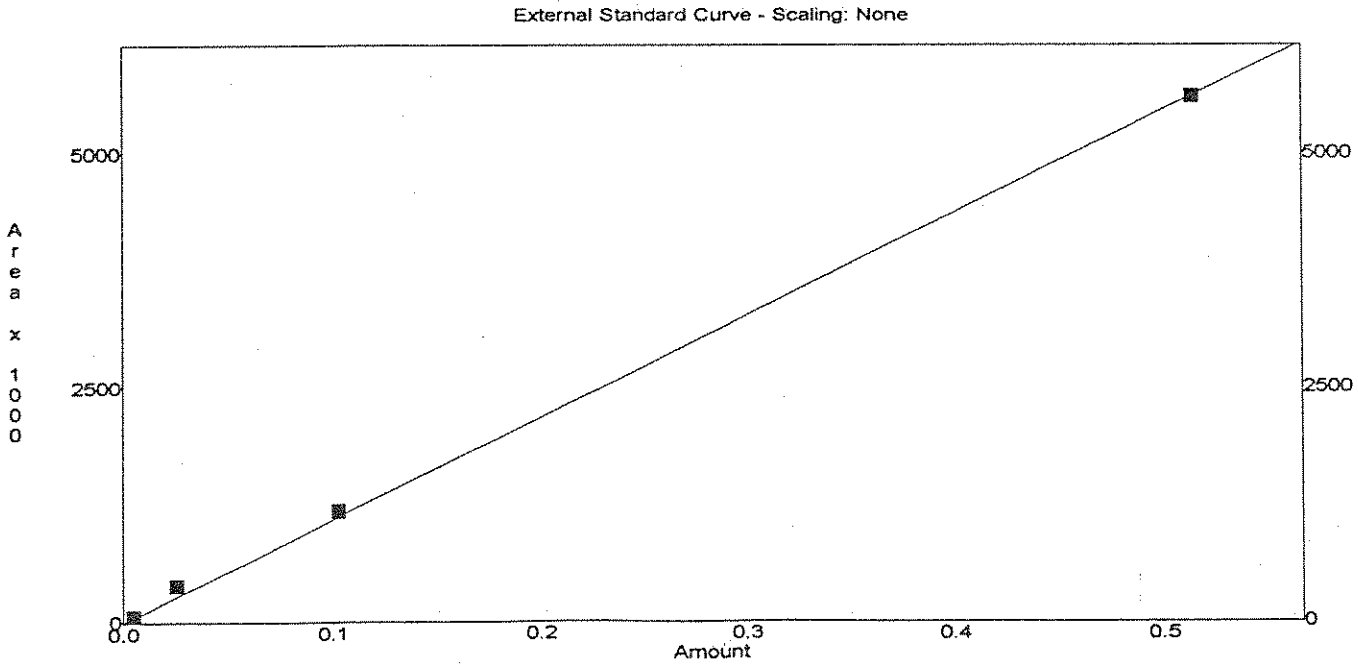
Method : C:\LABQUEST\METHODS\L1265_2.MET * - Replicate Not Used
Printed : Dec 20, 1995 09:39:55
Channel : A
Peak : FR11

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	58727	0.00514	8.752e-008	58727					0	0
2	389275	0.0257	6.602e-008	389275					0	0
3	1176248	0.1028	8.74e-008	1176248					0	0
4	5607854	0.514	9.166e-008	5607854					0	0

Average RF: 8.31494e-008
RF StdDev: 1.15898e-008
RF %RSD: 13.9385

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 9.136e-008 x Area + 0.000e+000
R^2 = 0.9993



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:39:57
Channel : A
Peak : DCE11+FR113

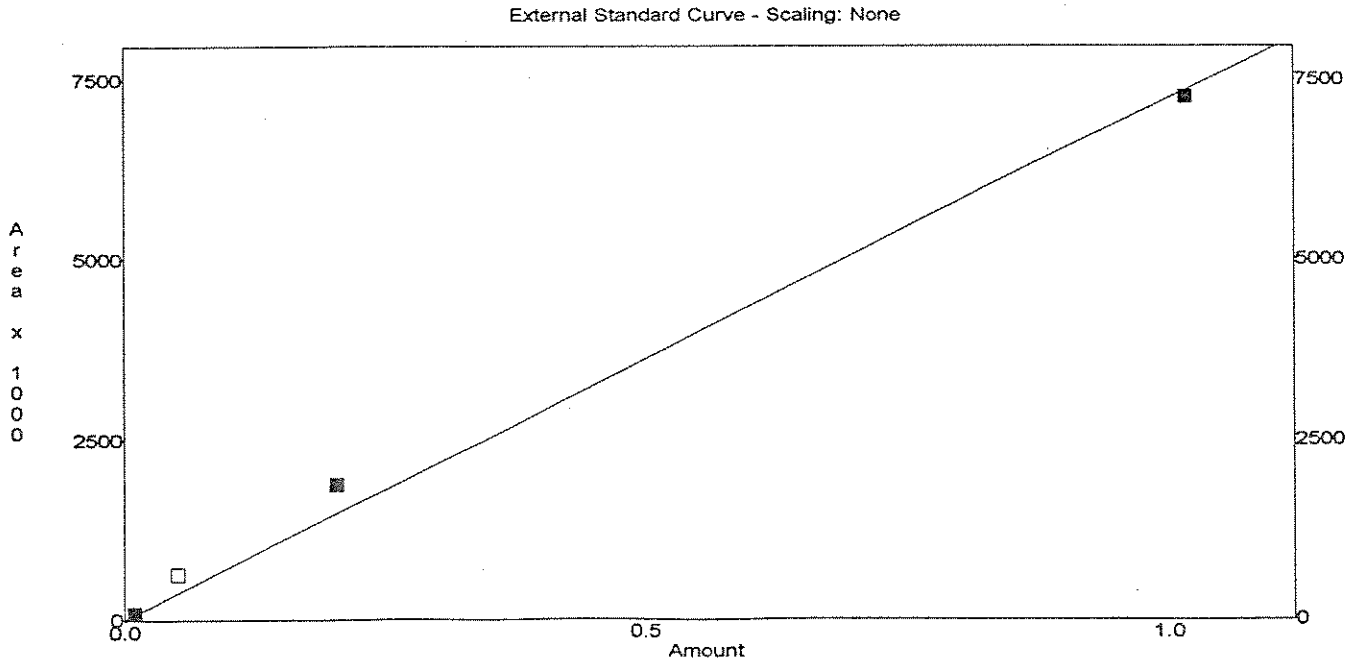
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	84917	0.01017	1.198e-007	84917					0	0
2	618561	0.0509	8.229e-008	618561*						
3	1867073	0.2034	1.089e-007	1867073					0	0
4	7257691	1.017	1.401e-007	7257691					0	0

Average RF: 1.22944e-007
RF StdDev: 1.58346e-008
RF %RSD: 12.8795

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.382e-007 x Area + 0.000e+000
R^2 = 0.9944



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:39:58
Channel : A
Peak : DCM

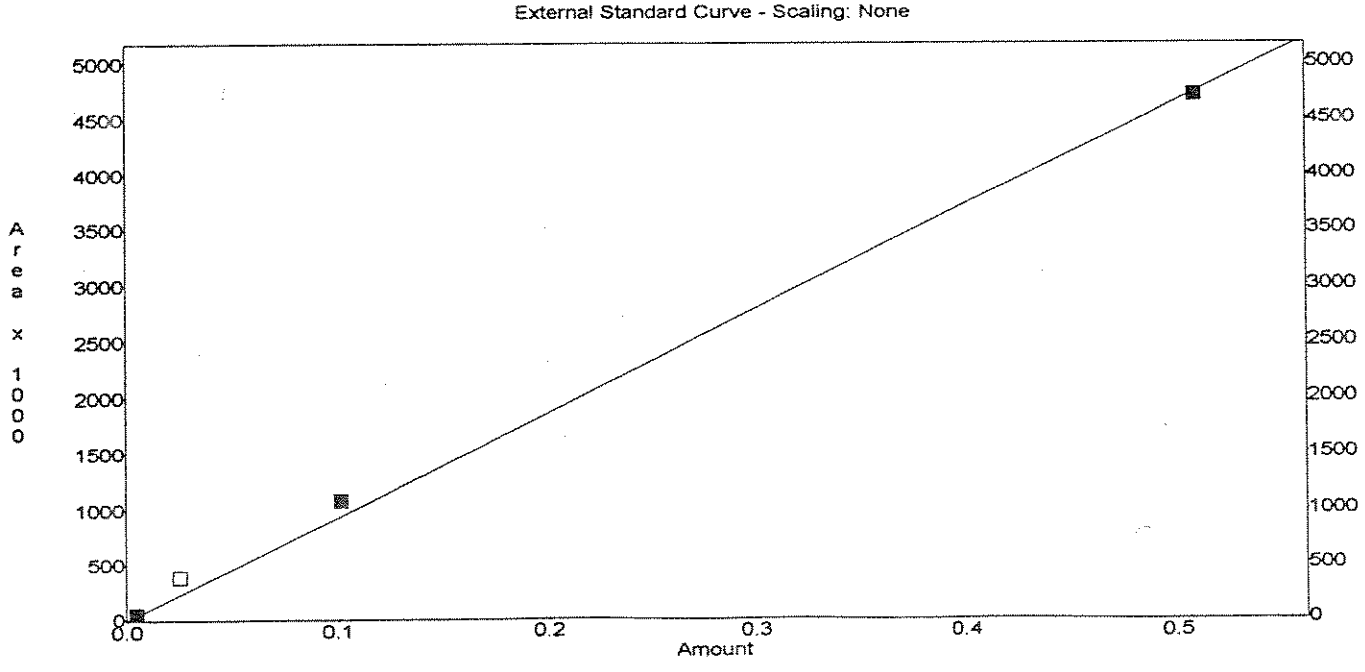
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	50454	0.00509	1.009e-007	50454					0	0
2	385724	0.0255	6.611e-008	385724*						
3	1079778	0.1018	9.428e-008	1079778					0	0
4	4708750	0.509	1.081e-007	4708750					0	0

Average RF: 1.01087e-007
RF StdDev: 6.91122e-009
RF %RSD: 6.83693

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.074e-007 x Area + 0.000e+000
R^2 = 0.9985



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:39:59
Channel : A
Peak : DCE12T

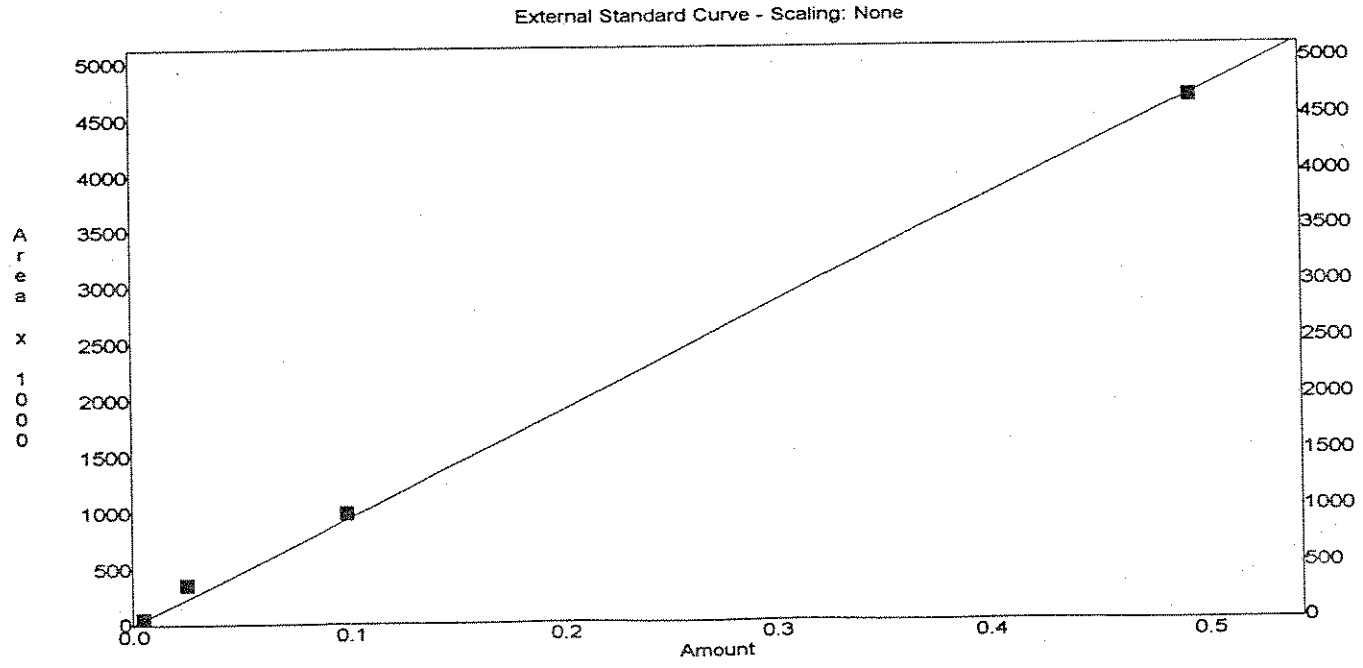
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	49212	0.00493	1.002e-007	49212					0	0
2	355588	0.02465	6.932e-008	355588					0	0
3	988657	0.0986	9.973e-008	988657					0	0
4	4664625	0.493	1.057e-007	4664625					0	0

Average RF: 9.373e-008
RF StdDev: 1.64962e-008
RF %RSD: 17.5997

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.052e-007 x Area + 0.000e+000
R^2 = 0.9987



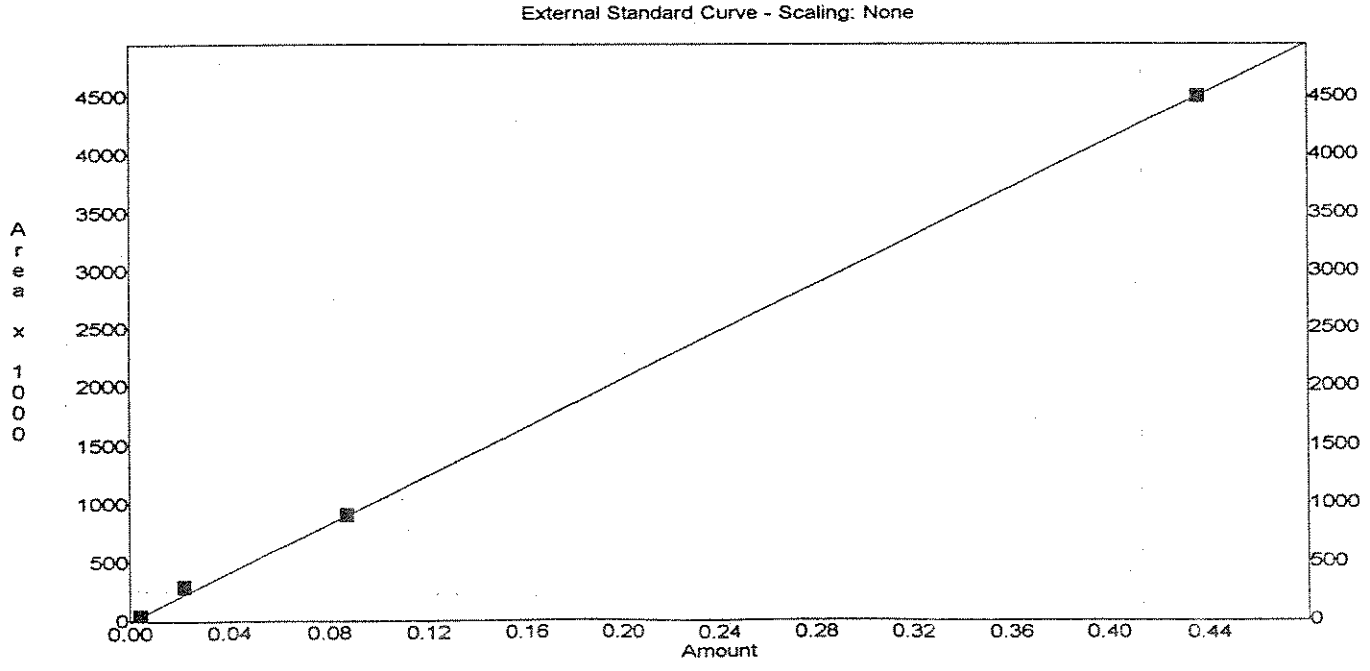
Method : C:\LABQUEST\METHODS\L1265_2.MET * - Replicate Not Used
Printed : Dec 20, 1995 09:40:01
Channel : A
Peak : DCA11

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	39733	0.00436	1.097e-007	39733					0	0
2	291890	0.0218	7.469e-008	291890					0	0
3	903002	0.0872	9.657e-008	903002					0	0
4	4498465	0.436	9.692e-008	4498465					0	0

Average RF: 9.44768e-008
RF StdDev: 1.45464e-008
RF %RSD: 15.3968

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 9.682e-008 x Area + 0.000e+000
R^2 = 0.9997



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:40:02
Channel : A
Peak : DCE12C

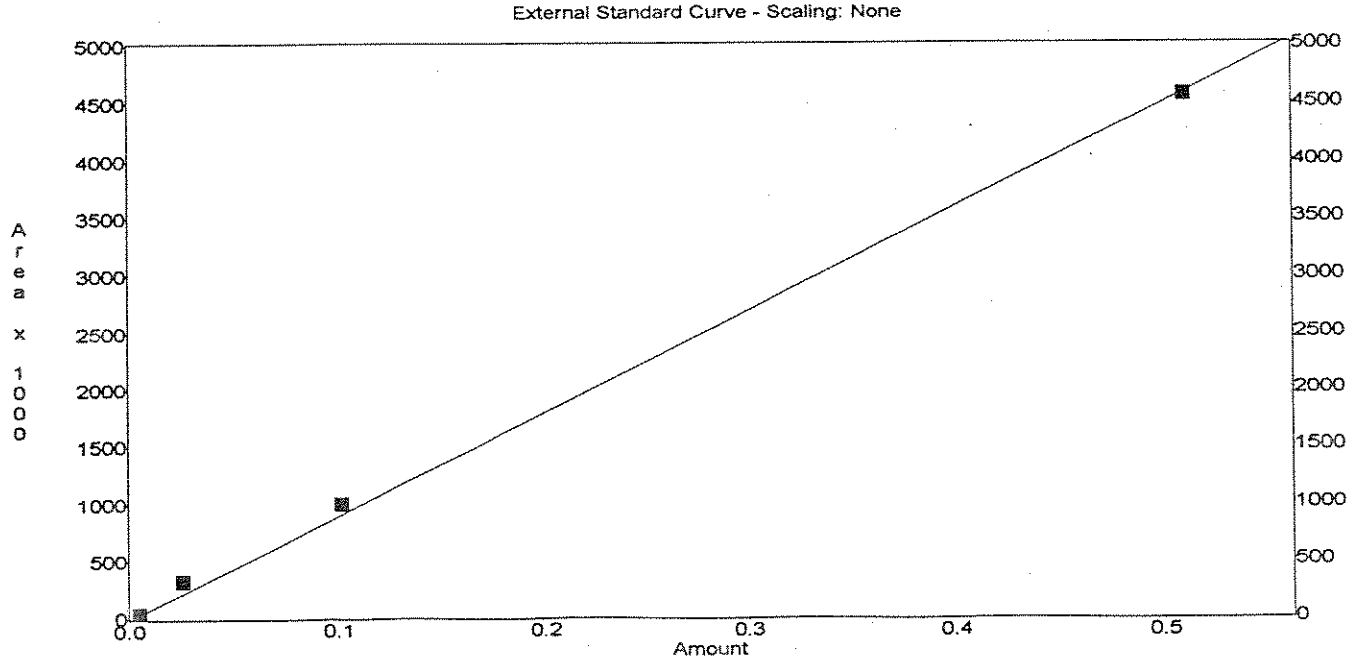
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	42944	0.0051	1.188e-007	42944					0	0
2	326818	0.0255	7.803e-008	326818					0	0
3	999747	0.102	1.02e-007	999747					0	0
4	4566903	0.51	1.117e-007	4566903					0	0

Average RF: 1.02621e-007
RF StdDev: 1.77734e-008
RF %RSD: 17.3195

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.111e-007 x Area + 0.000e+000
R^2 = 0.9988



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:40:03
Channel : A
Peak : CLFM

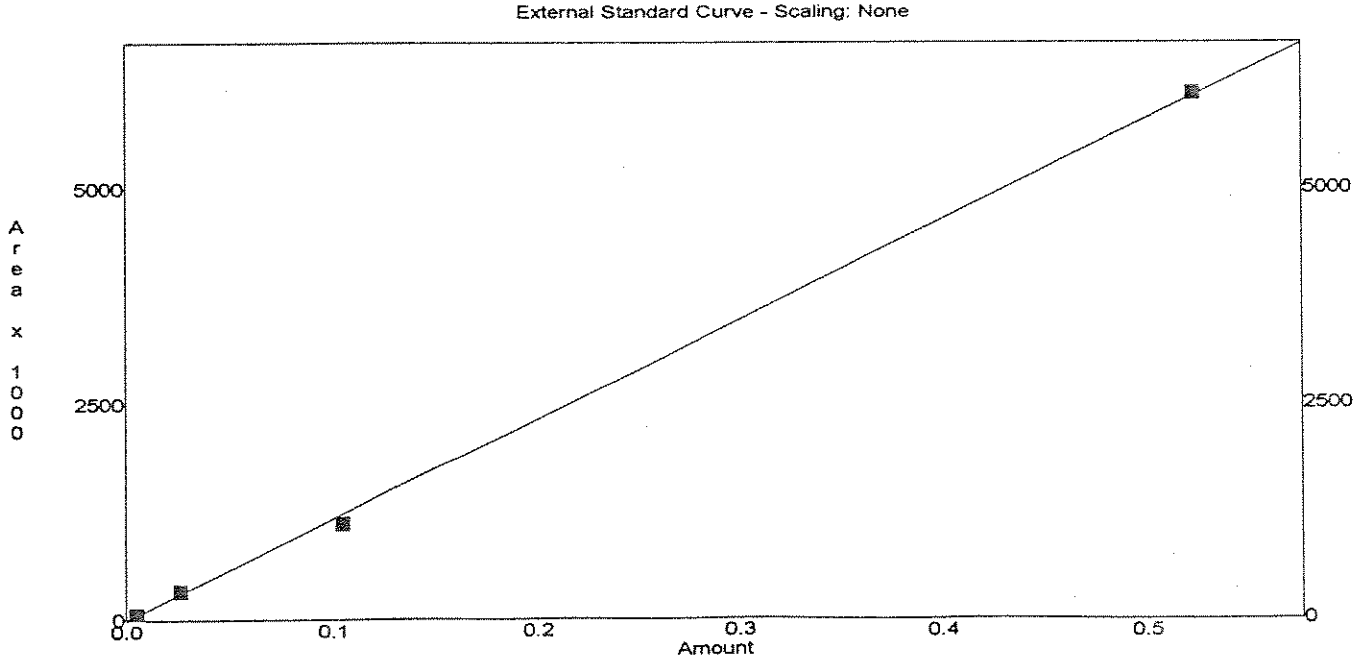
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	58524	0.00523	8.937e-008	58524					0	0
2	325028	0.0265	8.153e-008	325028					0	0
3	1094091	0.105	9.597e-008	1094091					0	0
4	6088185	0.523	8.59e-008	6088185					0	0

Average RF: 8.81927e-008
RF StdDev: 6.0957e-009
RF %RSD: 6.9118

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 8.621e-008 x Area + 0.000e+000
R^2 = 0.9993



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:40:05
Channel : A
Peak : TCA111

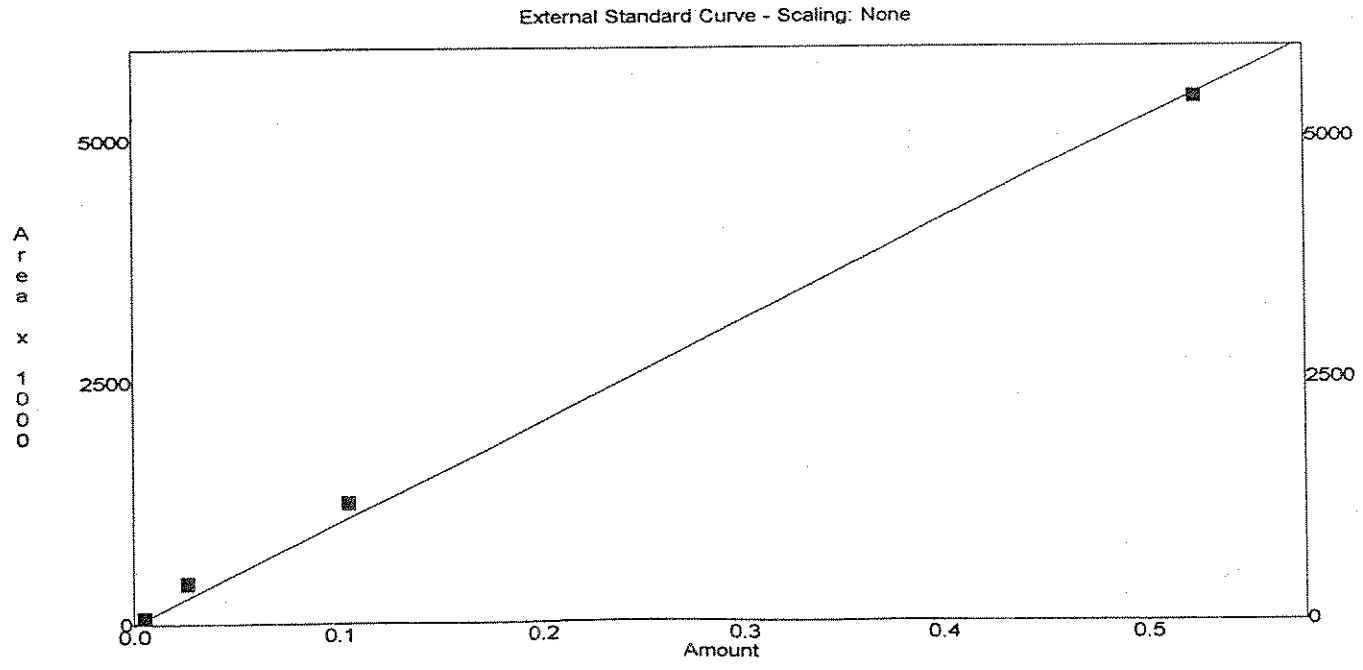
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	53697	0.00524	9.758e-008	53697					0	
2	408063	0.0262	6.421e-008	408063					0	
3	1242811	0.1048	8.432e-008	1242811					0	0
4	5423824	0.524	9.661e-008	5423824					0	0

Average RF: 8.56814e-008
RF StdDev: 1.55367e-008
RF %RSD: 18.1332

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 9.583e-008 x Area + 0.000e+000
R^2 = 0.9978



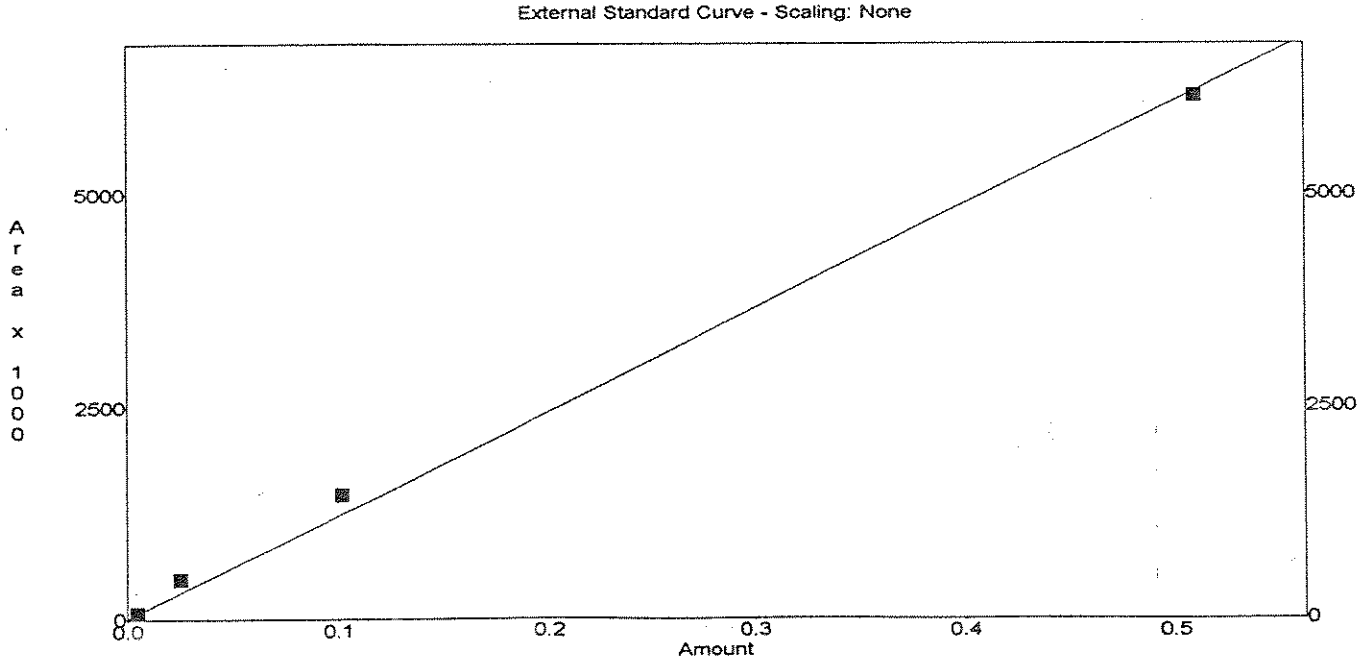
Method : C:\LABQUEST\METHODS\L1265_2.MET * - Replicate Not Used
Printed : Dec 20, 1995 09:40:06
Channel : A
Peak : CBTC

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	67851	0.0051	7.516e-008	67851					0	0
2	464142	0.0255	5.494e-008	464142					0	0
3	1471775	0.102	6.93e-008	1471775					0	0
4	6173829	0.51	8.261e-008	6173829					0	0

Average RF: 7.05039e-008
RF StdDev: 1.17172e-008
RF %RSD: 16.6192

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 8.175e-008 x Area + 0.000e+000
R^2 = 0.9969



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:40:07
Channel : A
Peak : DCA12

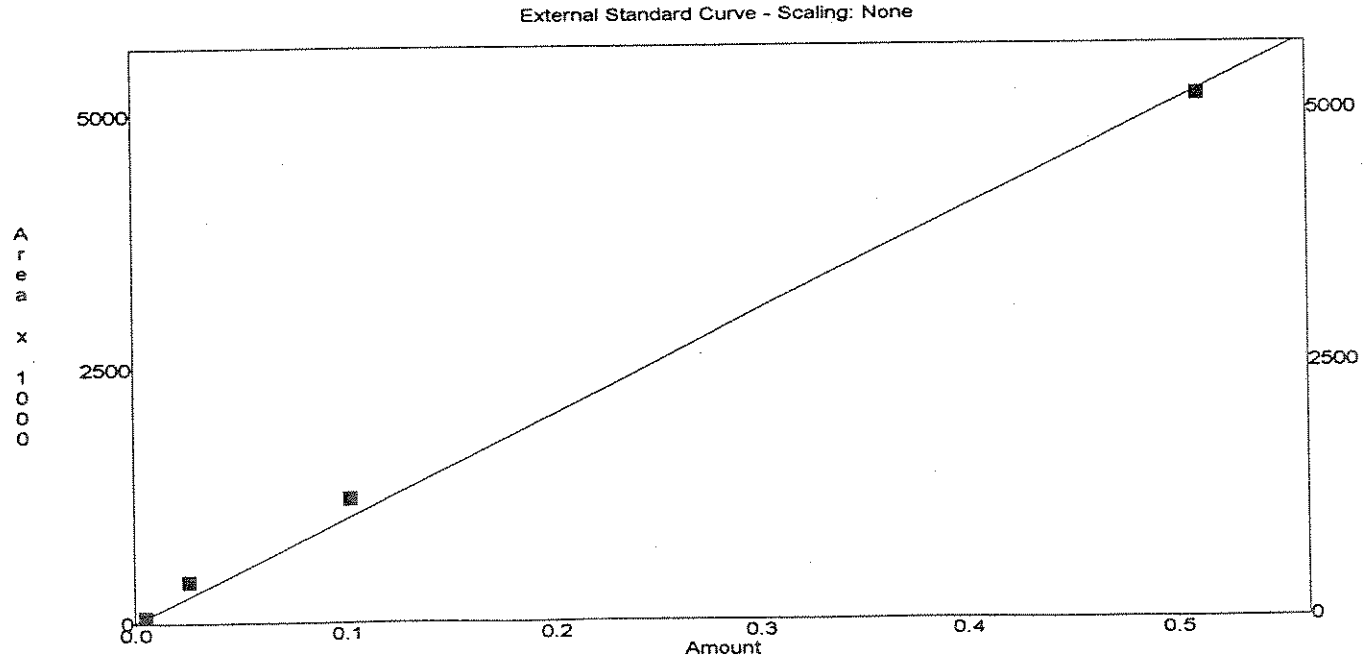
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	52704	0.00511	9.696e-008	52704					0	
2	409746	0.0256	6.248e-008	409746					0	
3	1217348	0.1022	8.395e-008	1217348					0	0
4	5151292	0.511	9.92e-008	5151292					0	0

Average RF: 8.56463e-008
RF StdDev: 1.68445e-008
RF %RSD: 19.6675

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 9.818e-008 x Area + 0.000e+000
R^2 = 0.9968



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:40:08
Channel : A
Peak : TCE

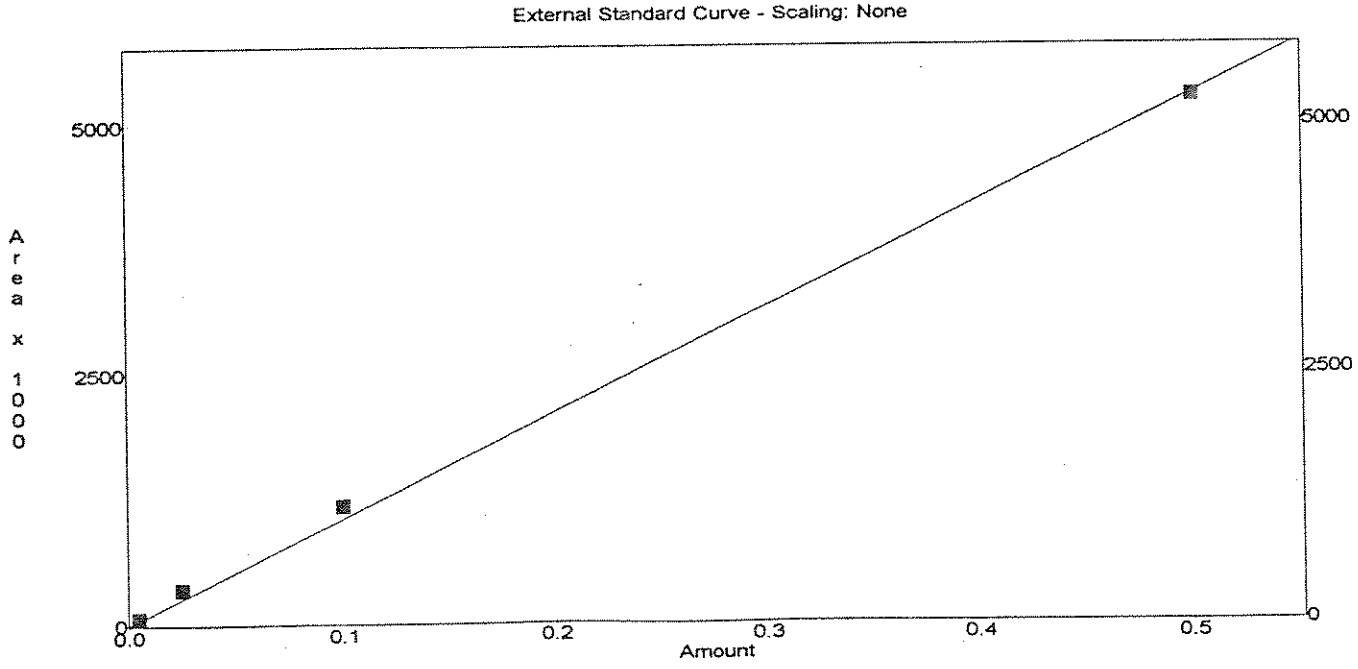
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	66387	0.00501	7.547e-008	66387					0	0
2	349657	0.0251	7.178e-008	349657					0	0
3	1179793	0.1002	8.493e-008	1179793					0	0
4	5260892	0.501	9.523e-008	5260892					0	0

Average RF: 8.18532e-008
RF StdDev: 1.04975e-008
RF %RSD: 12.8248

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 9.464e-008 x Area + 0.000e+000
R^2 = 0.9987



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:40:10
Channel : A
Peak : DCPE13C

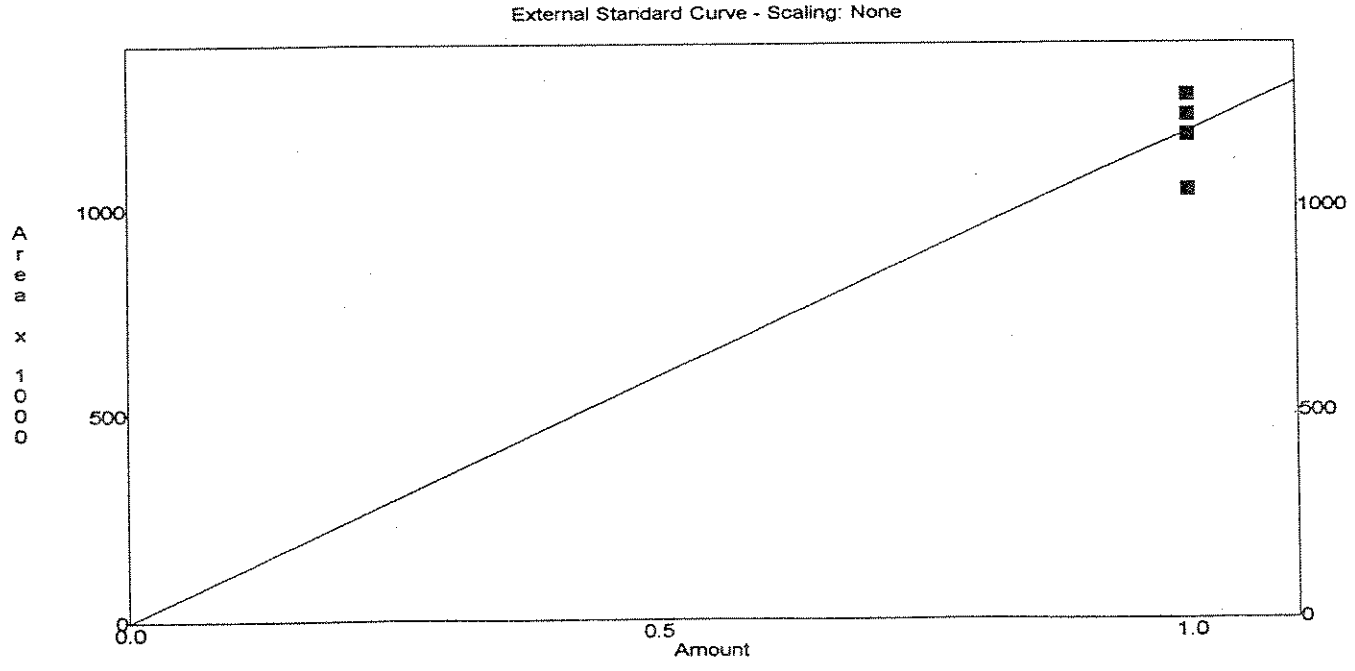
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	1173949	1	8.518e-007	1173949					0	0
2	1222004	1	8.183e-007	1222004					0	0
3	1041329	1	9.603e-007	1041329					0	0
4	1270678	1	7.87e-007	1270678					0	0

Average RF: 8.54362e-007
RF StdDev: 7.54329e-008
RF %RSD: 8.82916

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 8.452e-007 x Area + 0.000e+000
R^2 = 0.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:40:11
Channel : A
Peak : TCA112

* - Replicate Not Used

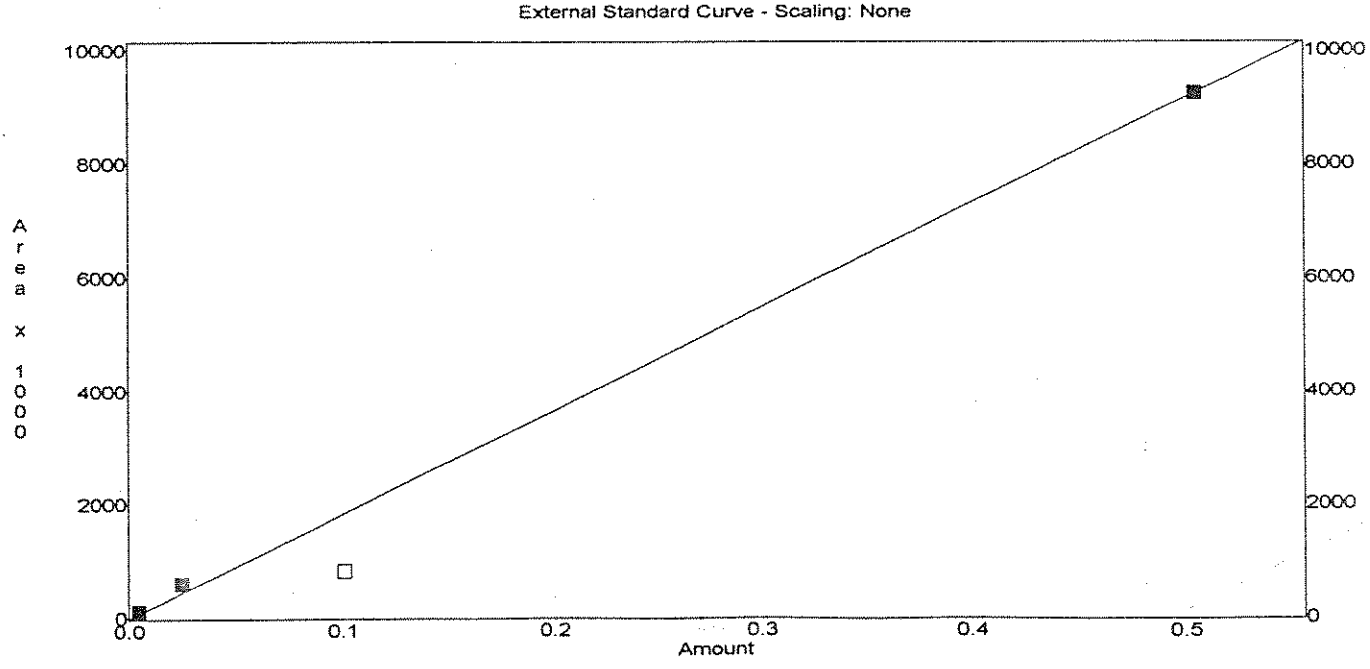
Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	124890	0.00505	4.044e-008	124890					0	0
2	612815	0.0253	4.128e-008	612815					0	0
3	838271	0.101	1.205e-007	838271*						
4	9241284	0.505	5.465e-008	9241284					0	0

Average RF: 4.54555e-008
RF StdDev: 7.97057e-009
RF %RSD: 17.5349

Use FID to report values for QC samples consistently 1/2
PJ

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 5.459e-008 x Area + 0.000e+000
R^2 = 0.9996



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:40:13
Channel : A
Peak : PCE

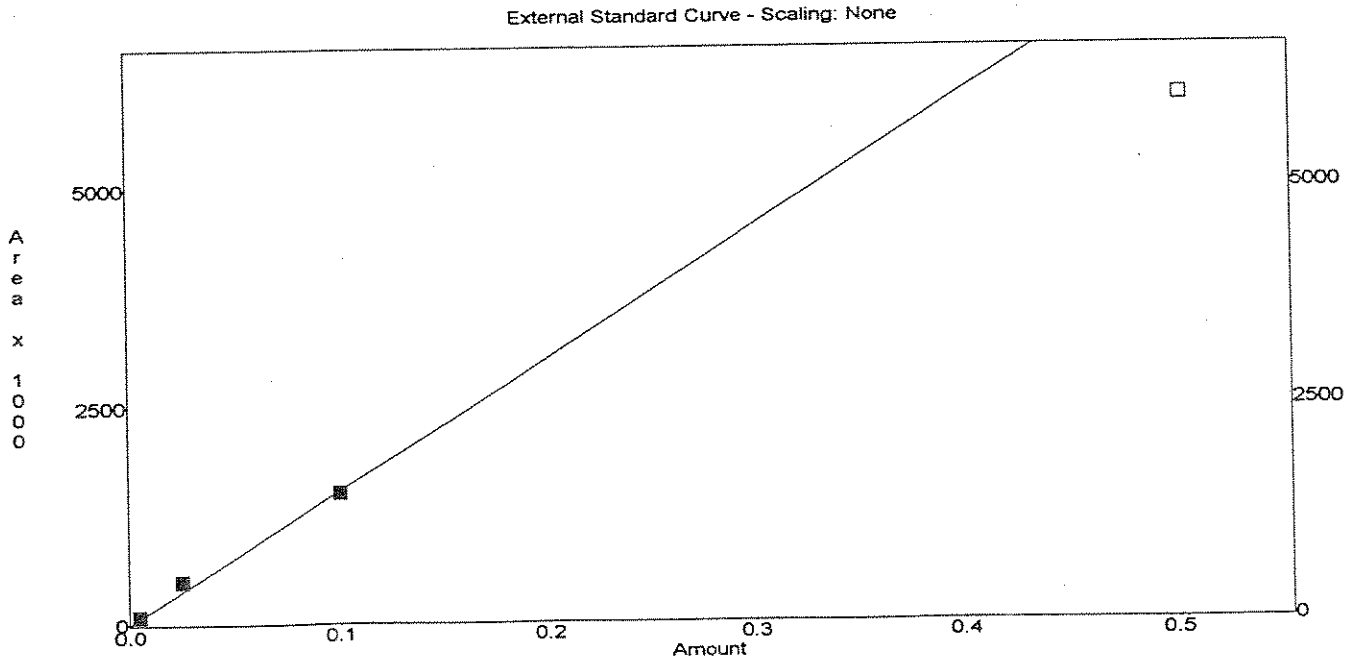
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	94077	0.00503	5.347e-008	94077					0	0
2	489033	0.02515	5.143e-008	489033					0	0
3	1494046	0.1006	6.733e-008	1494046					0	0
4	6020692	0.503	8.355e-008	6020692*						

Average RF: 5.74096e-008
RF StdDev: 8.65499e-009
RF %RSD: 15.0759

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 6.575e-008 x Area + 0.000e+000
R^2 = 0.9890



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:40:14
Channel : A
Peak : CFB13

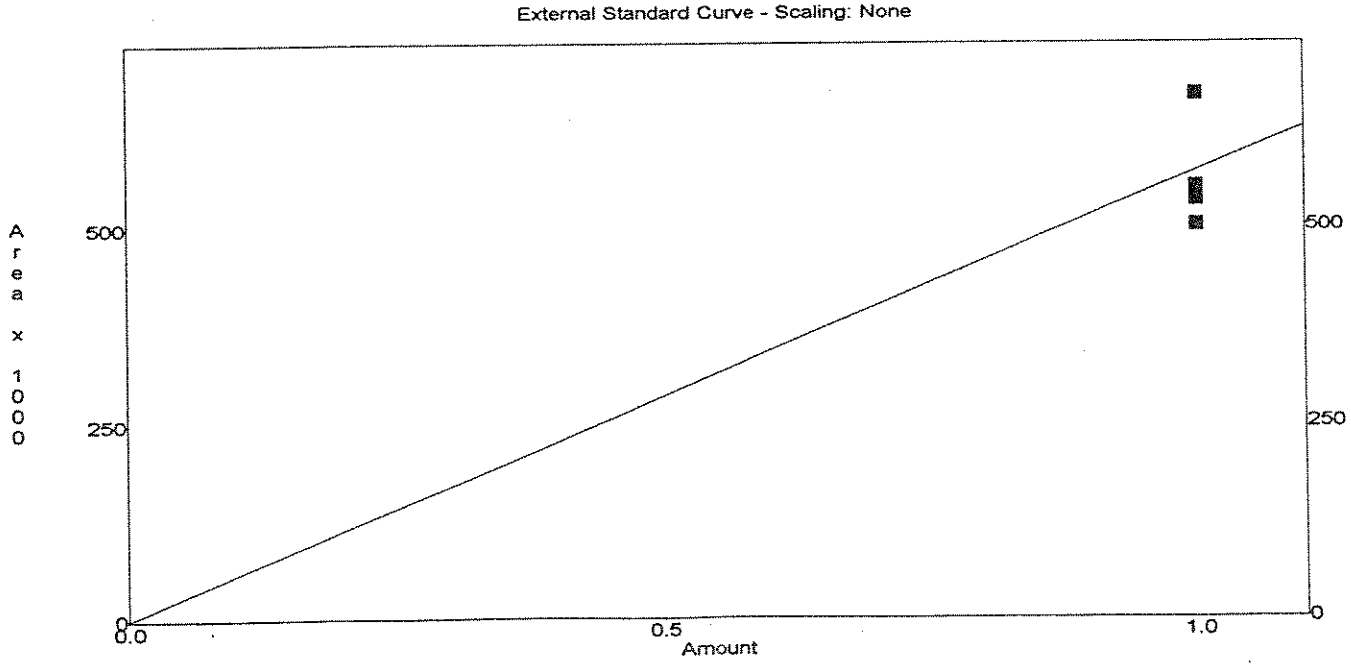
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	533456	1	1.875e-006	533456					0	0
2	549756	1	1.819e-006	549756					0	0
3	501475	1	1.994e-006	501475					0	0
4	670131	1	1.492e-006	670131					0	0

Average RF: 1.79498e-006
RF StdDev: 2.14642e-007
RF %RSD: 11.9579

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.752e-006 x Area + 0.000e+000
R^2 = 0.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:40:15
Channel : A
Peak : PCA1112

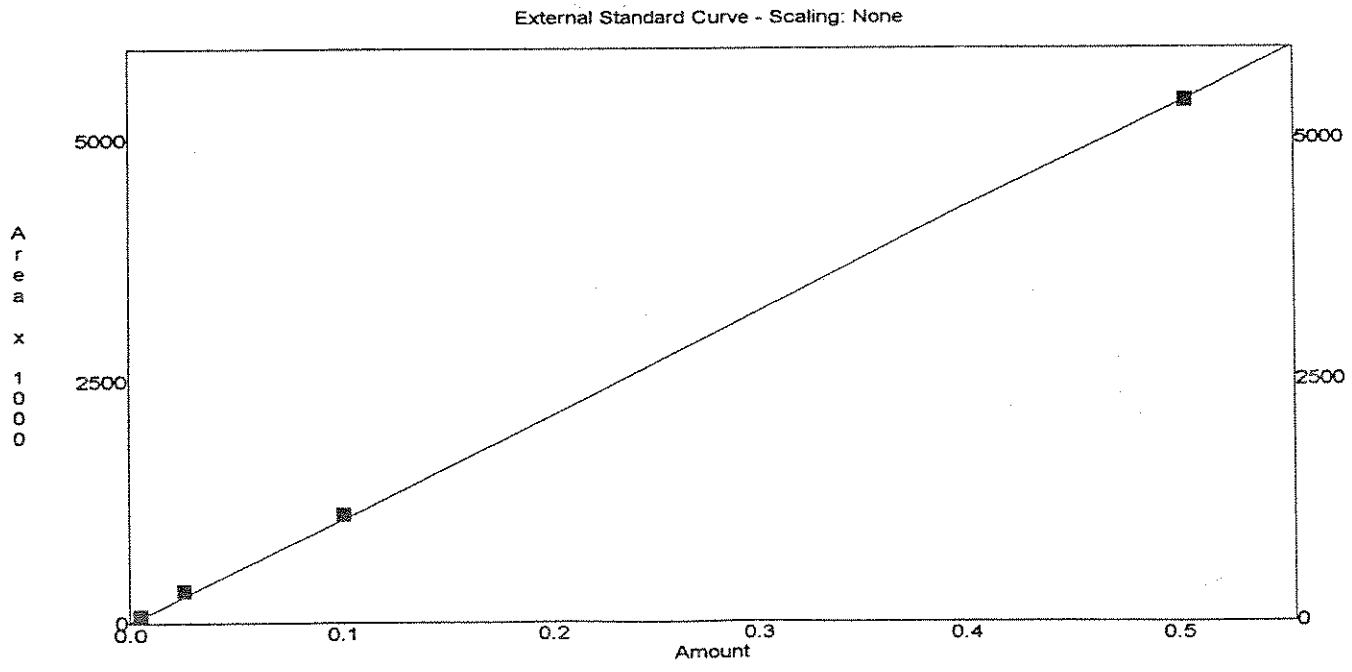
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	70900	0.00504	7.109e-008	70900					0	
2	329680	0.0252	7.644e-008	329680					0	
3	1133019	0.1008	8.897e-008	1133019					0	0
4	5399093	0.504	9.335e-008	5399093					0	0

Average RF: 8.24596e-008
RF StdDev: 1.04329e-008
RF %RSD: 12.6521

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 9.310e-008 x Area + 0.000e+000
R^2 = 0.9997



Method : C:\LABQUEST\METHODS\L1265_2.MET

Printed : Dec 20, 1995 09:40:16

Channel : A

Peak : PCA1122

* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	53930	0.00512	9.494e-008	53930					0	0
2	328632	0.0256	7.79e-008	328632					0	0
3	1186735	0.1024	8.629e-008	1186735					0	0
4	5065253	0.512	1.011e-007	5065253					0	0

Average RF: 9.00513e-008

RF StdDev: 1.01225e-008

RF %RSD: 11.2408

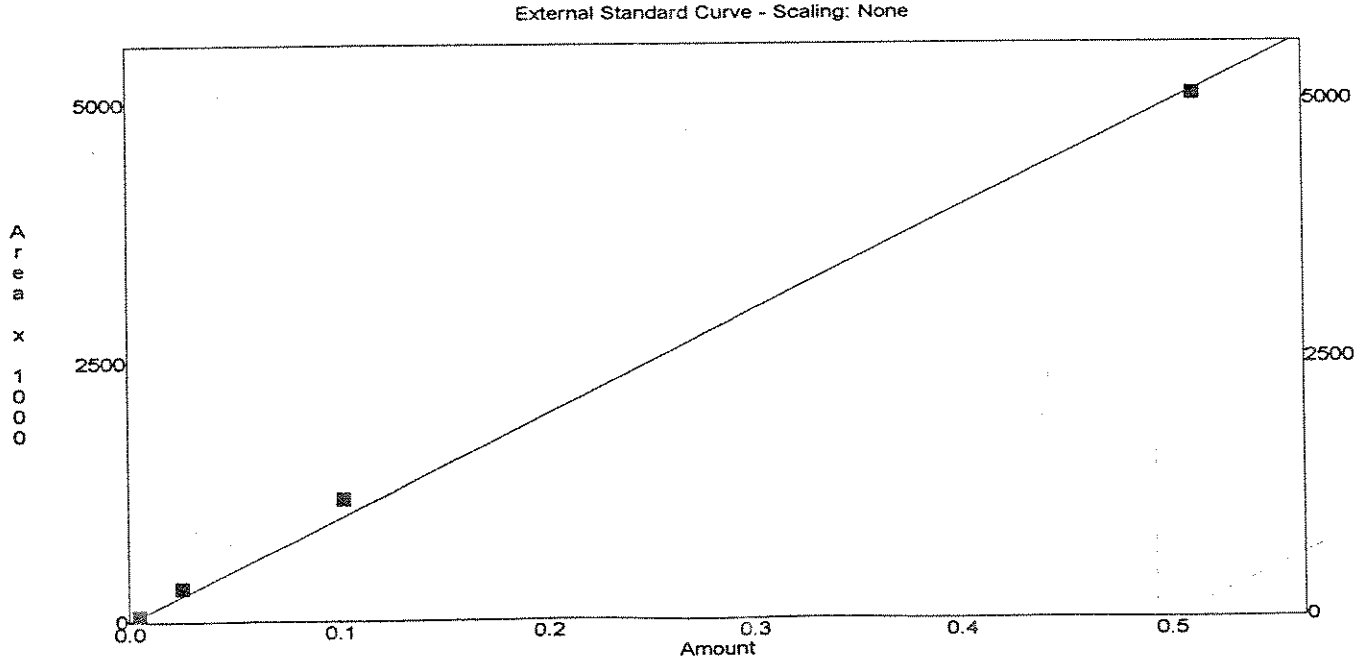
RF Definition: Amount / Area

Weighting Method: None

Fit Through Zero: Yes

Linear Fit: Amount = 1.002e-007 x Area + 0.000e+000

R^2 = 0.9980



:ethod : C:\LABQUEST\METHODS\L1265_2.MET
'rinted : Dec 20, 1995 09:34:55
:hannel : B
'eak : VC

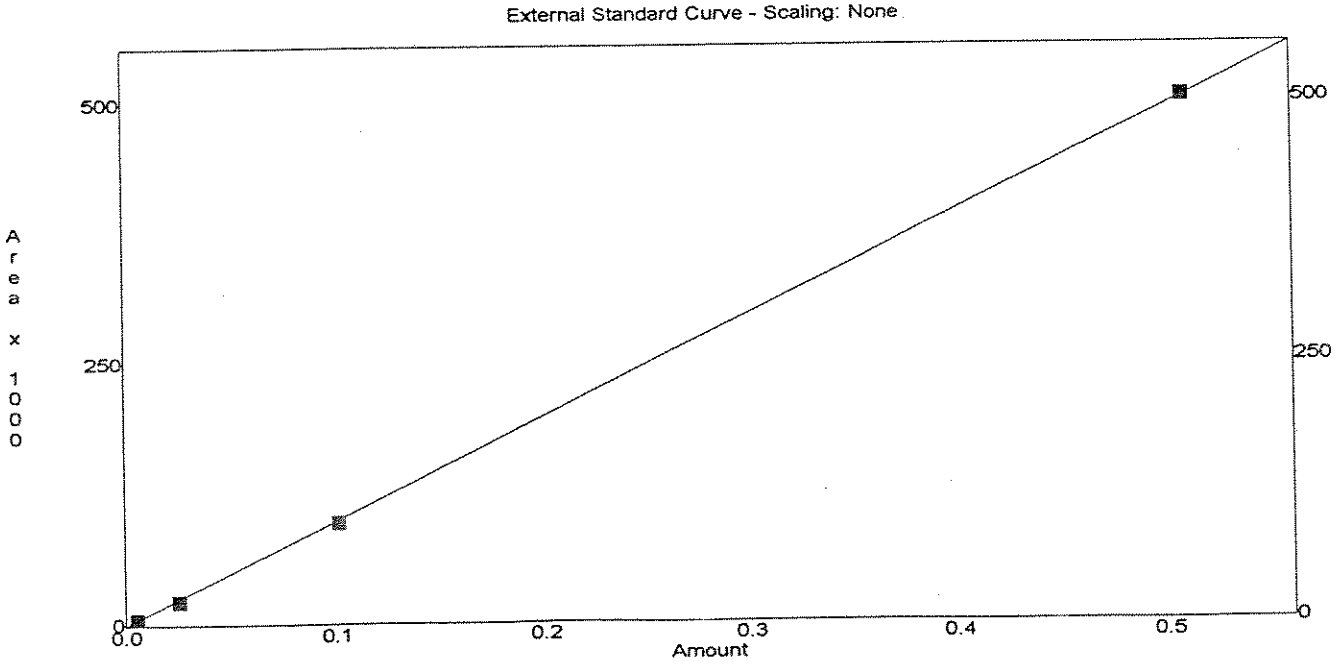
* - Replicate Not Used

:vel	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	4342	0.0058	1.336e-006	4342					0	0
2	21282	0.0254	1.193e-006	21282					0	0
3	96211	0.1016	1.056e-006	96211					0	0
4	502242	0.508	1.011e-006	502242					0	0

verage RF: 1.14919e-006
F StdDev: 1.46552e-007
F %RSD: 12.7527

F Definition: Amount / Area
eighting Method: None
it Through Zero: Yes

inear Fit: Amount = 1.013e-006 x Area + 0.000e+000
R^2 = 0.9998



Method : C:\LABQUEST\METHODS\L1265_2.MET

Printed : Dec 20, 1995 09:34:57

Channel : B

Peak : DCE11

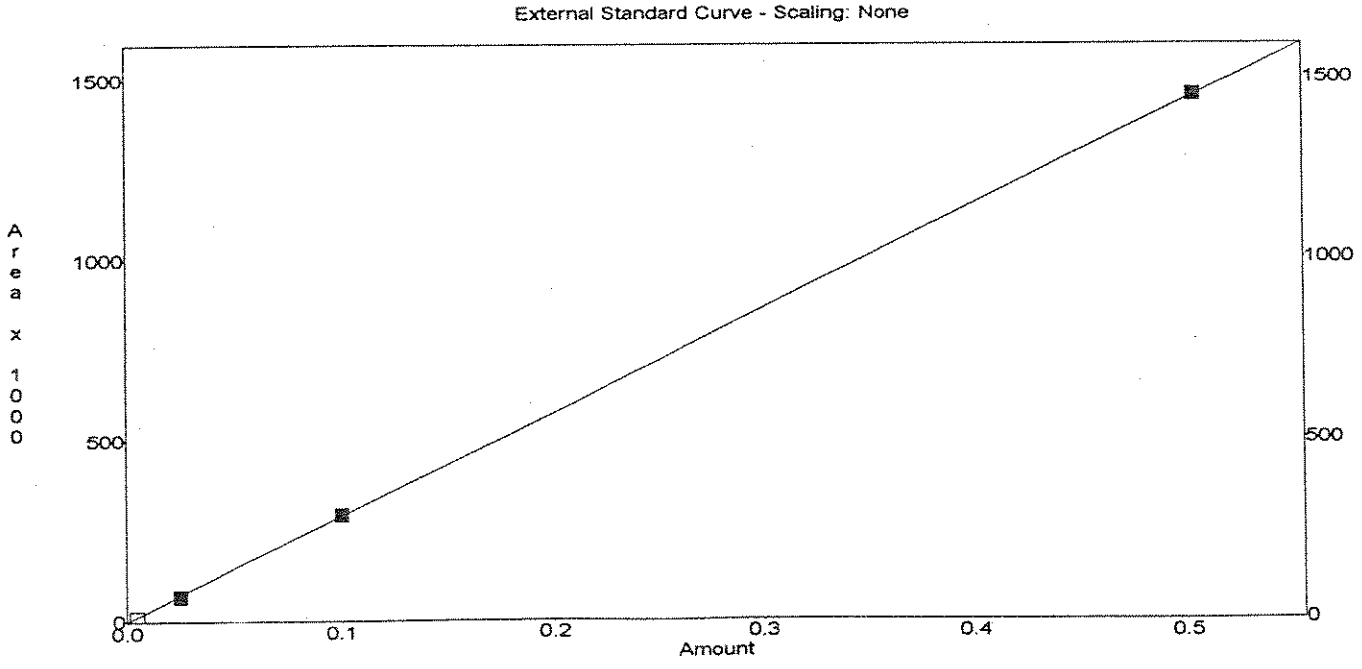
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	8678	0.00504	5.808e-007	8678*						
2	65497	0.0252	3.848e-007	65497					0	0
3	289339	0.1008	3.484e-007	289339					0	0
4	1452839	0.504	3.469e-007	1452839					0	0

Average RF: 3.60013e-007
RF StdDev: 2.14371e-008
RF %RSD: 5.95454

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 3.470e-007 x Area + 0.000e+000
R^2 = 1.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:34:58
Channel : B
Peak : DCE12T

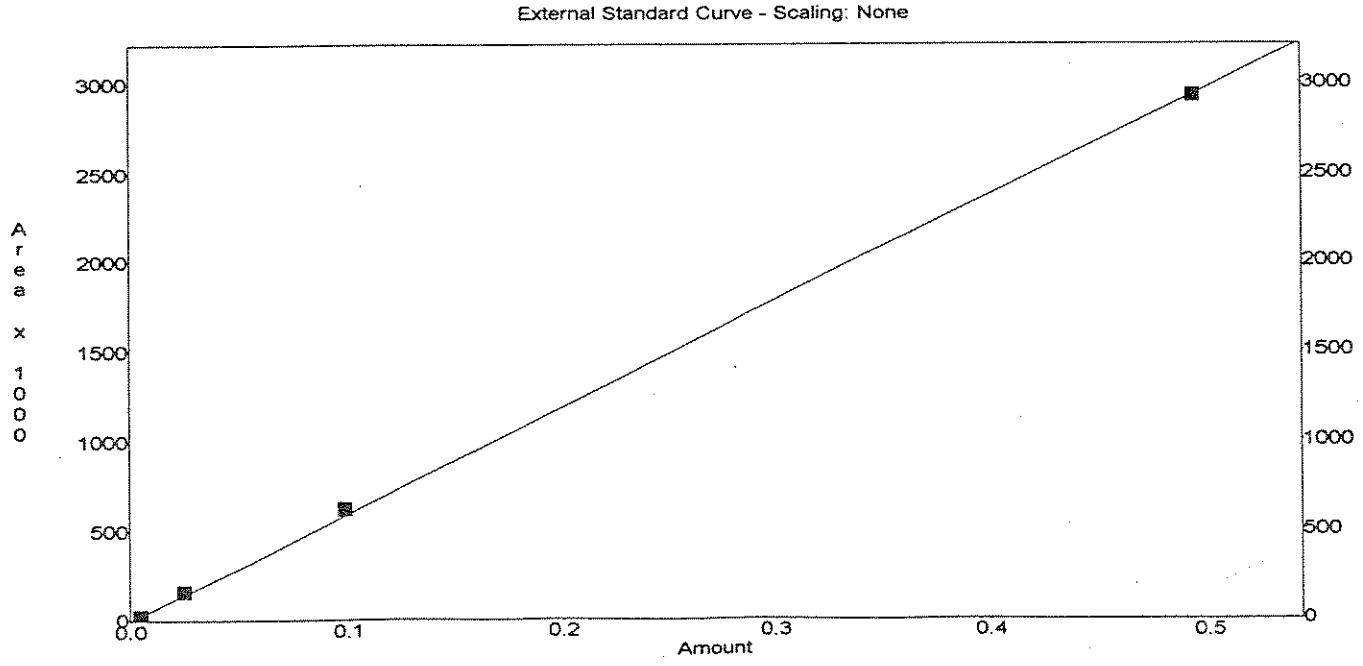
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	20306	0.00493	2.428e-007	20306					0	
2	159852	0.02465	1.542e-007	159852					0	
3	621068	0.0986	1.588e-007	621068					0	
4	2931267	0.493	1.682e-007	2931267					0	0

Average RF: 1.80983e-007
RF StdDev: 4.16088e-008
RF %RSD: 22.9904

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.677e-007 x Area + 0.000e+000
R^2 = 0.9997



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:35:00
Channel : B
Peak : DCE12C

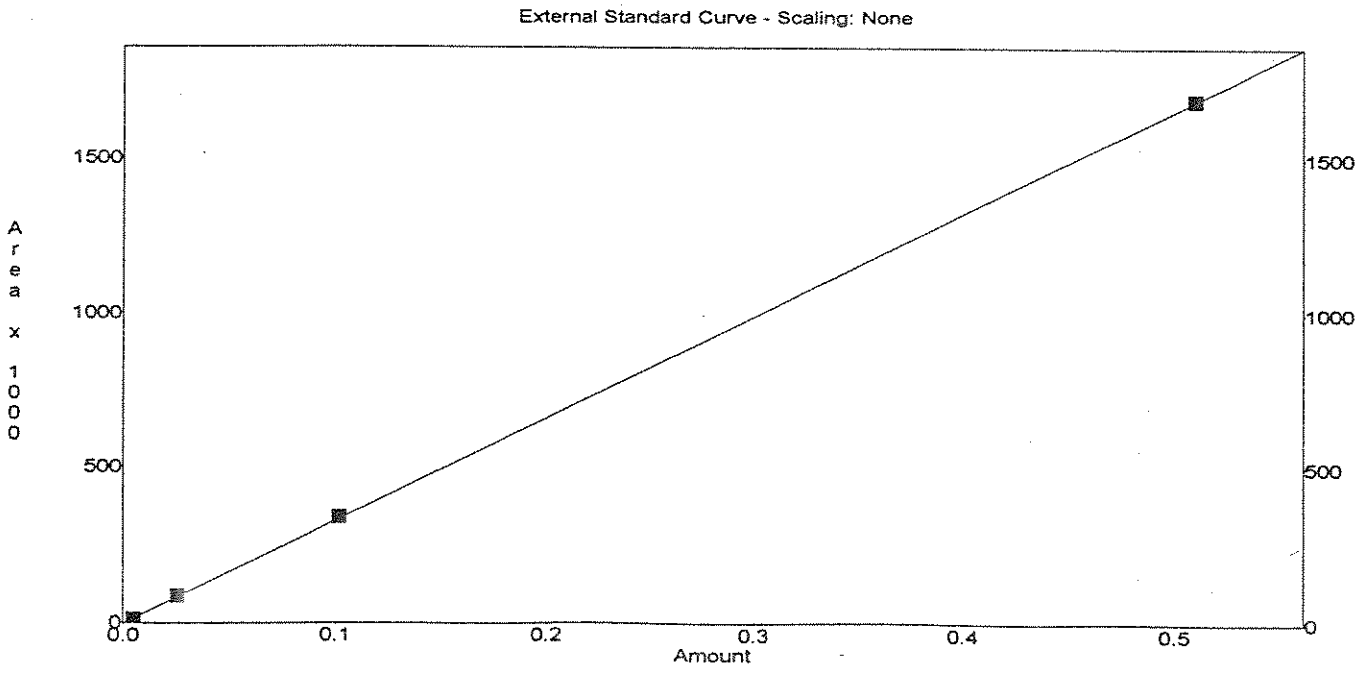
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	10976	0.0051	4.647e-007	10976					0	0
2	85959	0.0255	2.967e-007	85959					0	0
3	341856	0.102	2.984e-007	341856					0	0
4	1689751	0.51	3.018e-007	1689751					0	0

Average RF: 3.40374e-007
RF StdDev: 8.28786e-008
RF %RSD: 24.3493

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 3.017e-007 x Area + 0.000e+000
R^2 = 1.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:35:01
Channel : B
Peak : BNZ

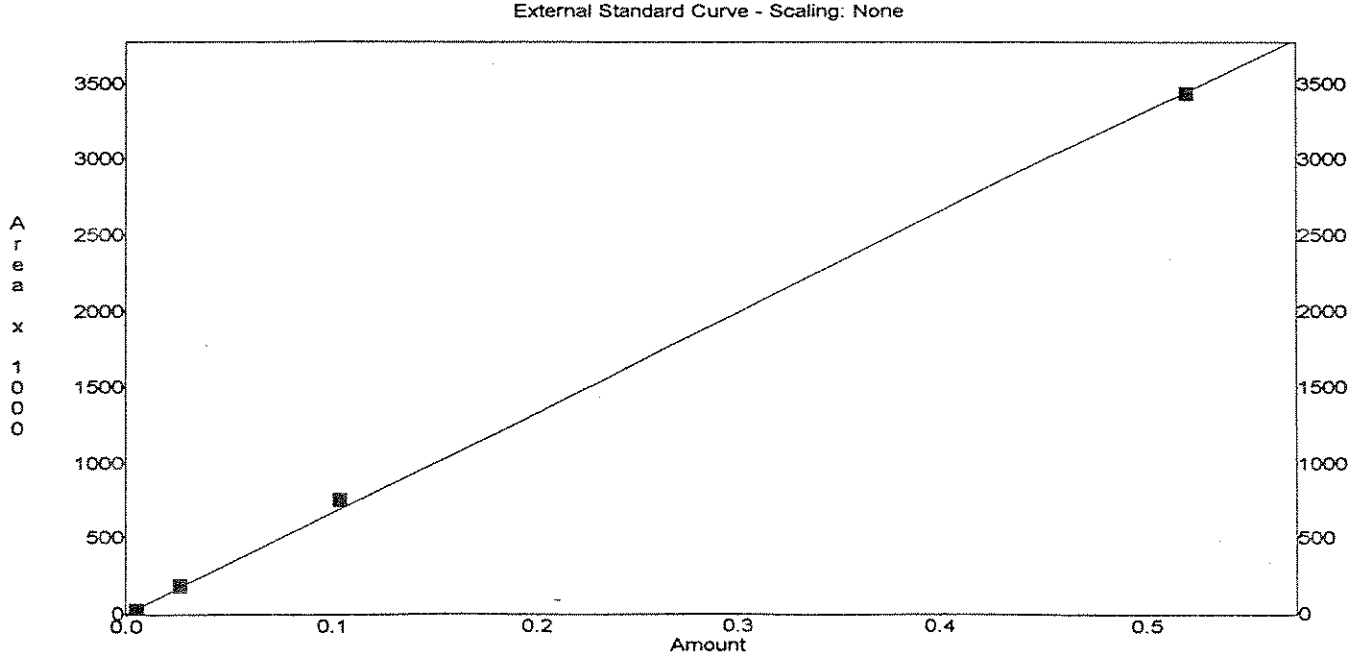
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	25038	0.00519	2.073e-007	25038					0	0
2	180629	0.026	1.439e-007	180629					0	0
3	751012	0.1038	1.382e-007	751012					0	
4	3438298	0.519	1.509e-007	3438298					0	

Average RF: 1.60098e-007
RF StdDev: 3.18888e-008
RF %RSD: 19.9183

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.504e-007 x Area + 0.000e+000
R^2 = 0.9995



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:35:02
Channel : B
Peak : TCE

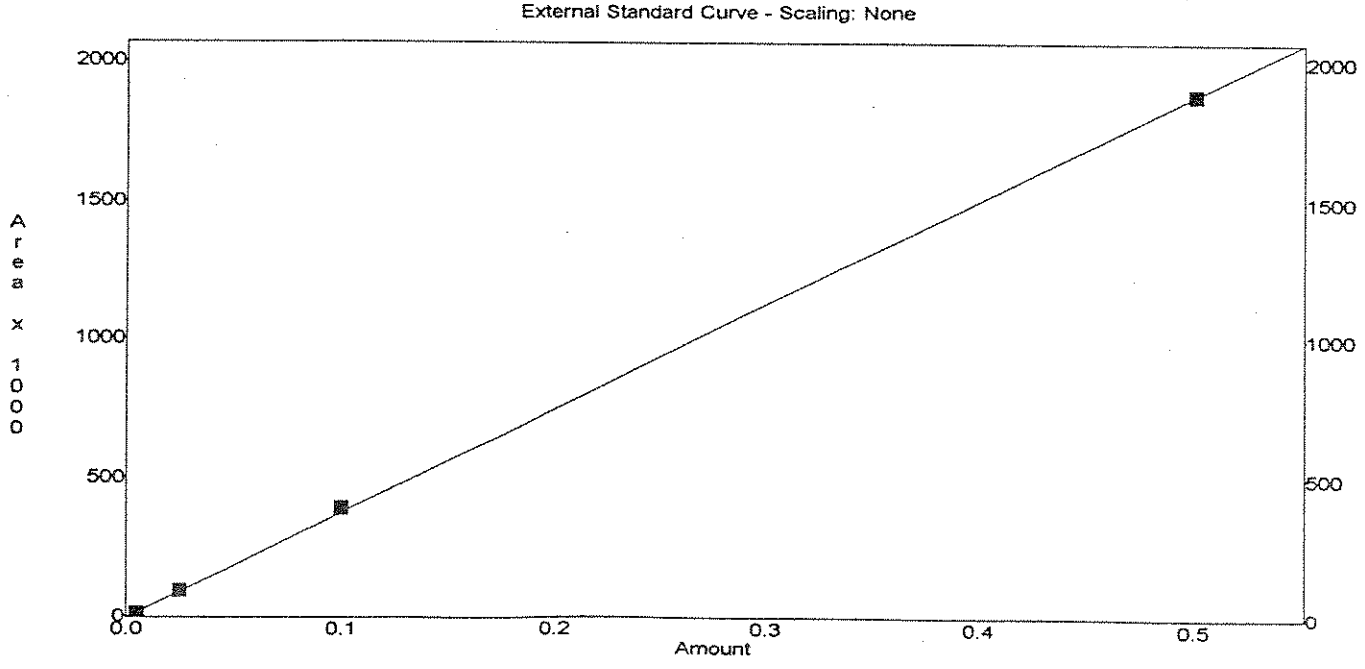
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	13588	0.00501	3.687e-007	13588					0	0
2	94855	0.0251	2.646e-007	94855					0	0
3	389491	0.1002	2.573e-007	389491					0	0
4	1883071	0.501	2.661e-007	1883071					0	0

Average RF: 2.89162e-007
RF StdDev: 5.3179e-008
RF %RSD: 18.3907

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 2.657e-007 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:35:04
Channel : B
Peak : DCPE13C

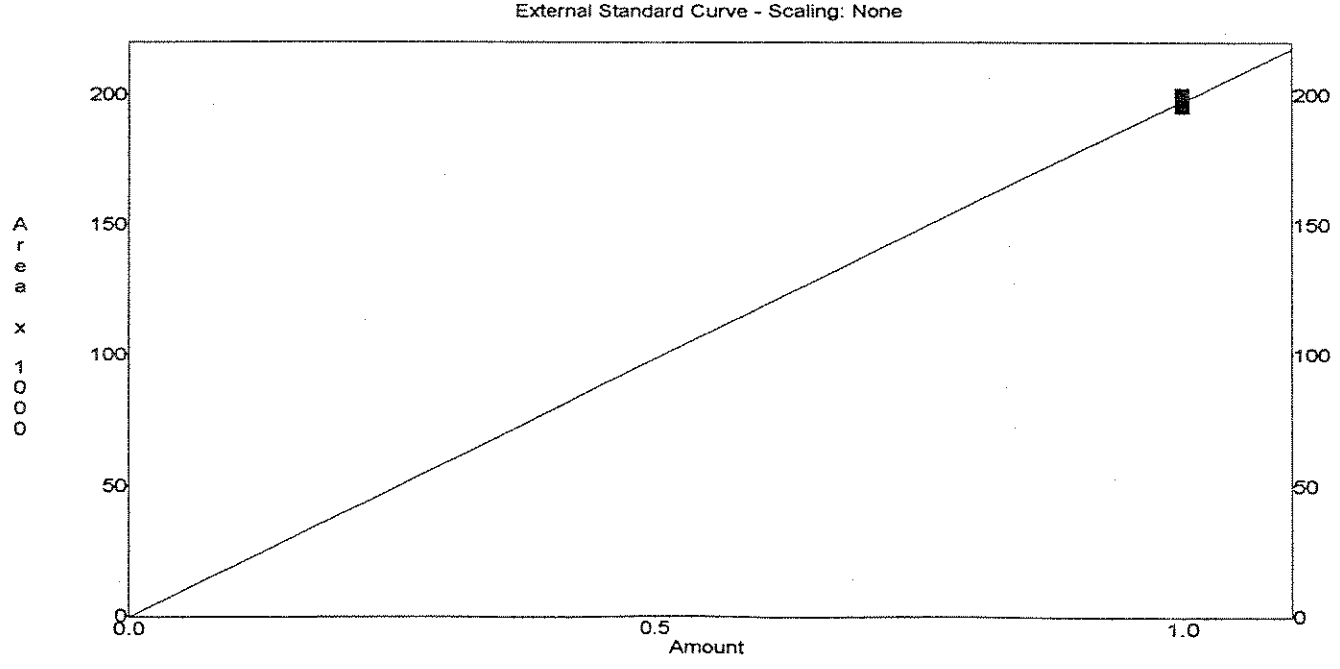
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	195555	1	5.114e-006	195555					0	0
2	195413	1	5.117e-006	195413					0	0
3	199933	1	5.002e-006	199933					0	
4	199448	1	5.014e-006	199448					0	

Average RF: 5.06163e-006
RF StdDev: 6.24308e-008
RF %RSD: 1.23341

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 5.060e-006 x Area + 0.000e+000
R^2 = 0.0000



HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L126S

Sample I.D.: SV-38-5B

Probe Depth (ft): 5

Time Sampled: 1217

Sampled by: BV

Date Sampled: 12-20-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 75

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 17

Purge Volume (liters): 240ml

Equilibrium Time: 1sec

Purge Time: 2sec.

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Sahamara

Volume Analyzed (ml): 1

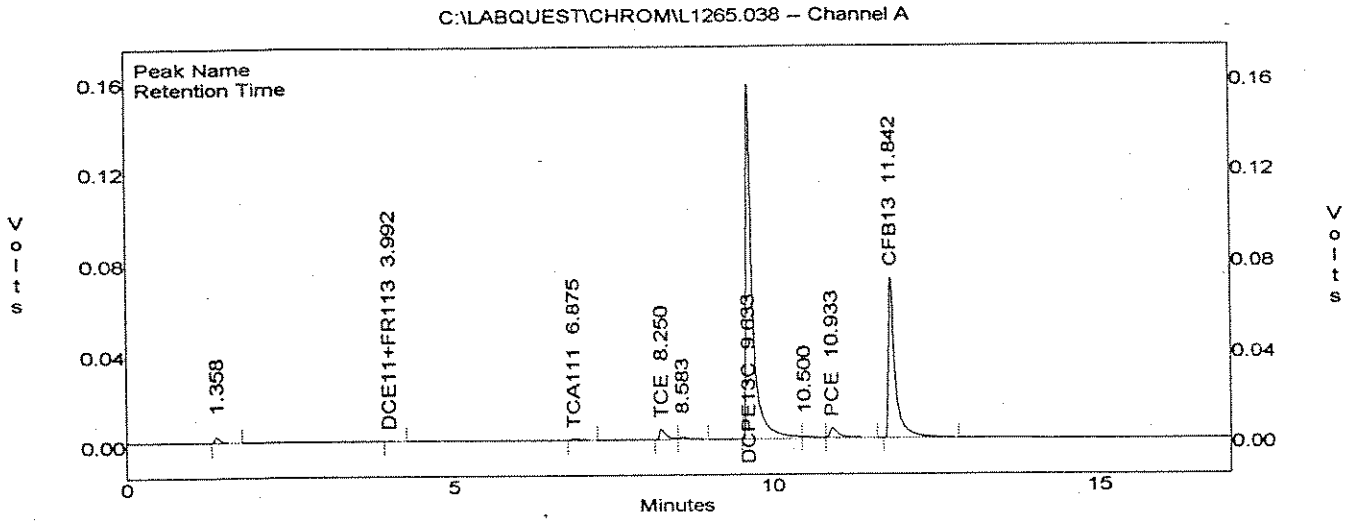
Date: 12-20-95 Time: 1203

Time Injected: 1224 Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	2.9 ✓	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	3.2 ✓				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 92 91 % PID: 96 97 % FID: 100 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.038
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-38-5B
Acquired : Dec 20, 1995 12:25:26
Printed : Dec 20, 1995 12:42:47
User : PAS



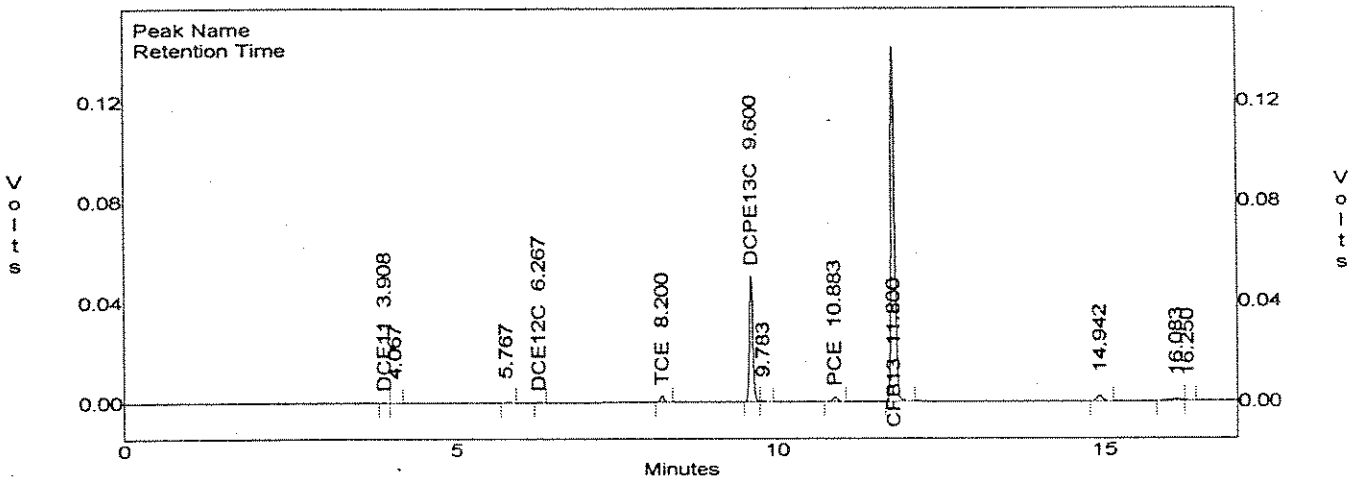
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.358	15688	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
2	DCE11+FR113	3.992	1836	0.254	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
3	TCA111	6.875	7815	0.749	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
4	TCE	8.250	33912	3.209	0
5		8.583	9064	0.000	0
6	DCPE13C	9.633	1093696	924.358	0
7		10.500	12031	0.000	0
--	TCA112	10.760	0	0.000	0
8	PCE	10.933	44014	2.894	0
9	CFB13	11.842	519631	910.137	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1737689	1841.601	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.038
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-38-5B
Acquired : Dec 20, 1995 12:25:26
Printed : Dec 20, 1995 12:42:51
User : PAS

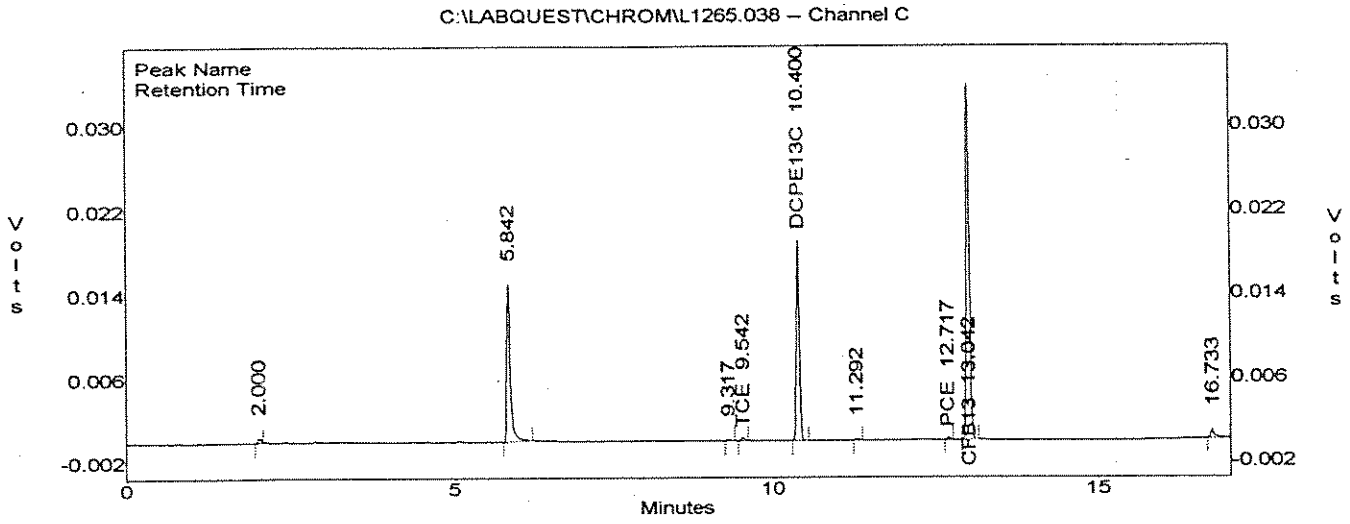
C:\LABQUEST\CHROM\L1265.038 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.908	1542	0.535	0
2		4.067	538	0.000	0
--	DCE12T	4.910	0	0.000	0
3		5.767	902	0.000	0
4	DCE12C	6.267	711	0.214	0
--	BNZ	7.300	0	0.000	0
5	TCE	8.200	9979	2.651	0
6	DCPE13C	9.600	189021	956.540	0
7		9.783	1610	0.000	0
--	TOL	10.050	0	0.000	0
8	PCE	10.883	8242	2.680	0
9	CFB13	11.800	572786	969.850	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
10		14.942	14180	0.000	0
11		16.083	8010	0.000	0
12		16.250	1257	0.000	0
Totals :			808782	1932.472	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.038
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-38-5B
Acquired : Dec 20, 1995 12:25:26
Printed : Dec 20, 1995 12:42:53
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.000	1717	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.842	58975	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.317	564	0.000	0
4	TCE	9.542	1082	3.631	0
5	DCPE13C	10.400	66047	1002.105	0
--	TCA112	11.110	0	0.000	0
6		11.292	557	0.000	0
--	TOL	11.430	0	0.000	0
7	PCE	12.717	774	3.255	0
8	CFB13	13.042	121323	1003.976	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
9		16.733	4342	0.000	0
Totals :			255383	2012.968	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-38-5C

Probe Depth (ft): 5

Time Sampled: 1219

Sampled by: BV

Date Sampled: 12-20-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 75

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80 ml

Max. Purge Vacuum (in. Hg): 17

Purge Volume (liters): 400 ml

Equilibrium Time: 2 sec

Purge Time: 2 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

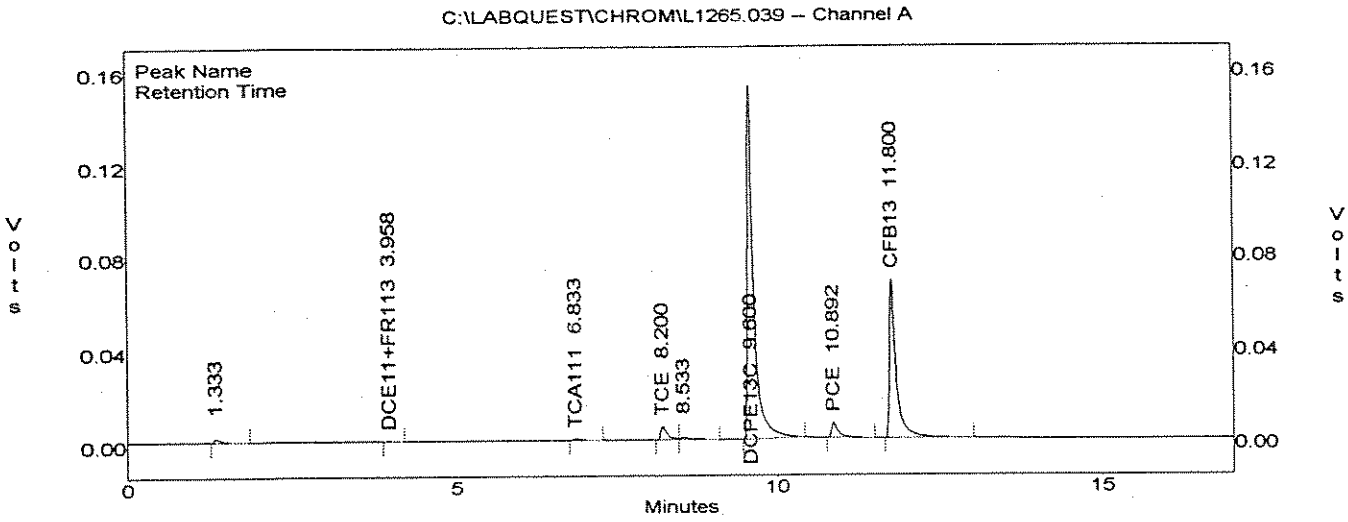
Date: 12-20-95 Time: 1223

Time Injected: 1246 Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	3.4	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	4.0				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 88 87 % PID: 93 93 % FID: 100 99 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.039
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-38-5C
Acquired : Dec 20, 1995 12:48:15
Printed : Dec 20, 1995 13:05:35
User : PAS

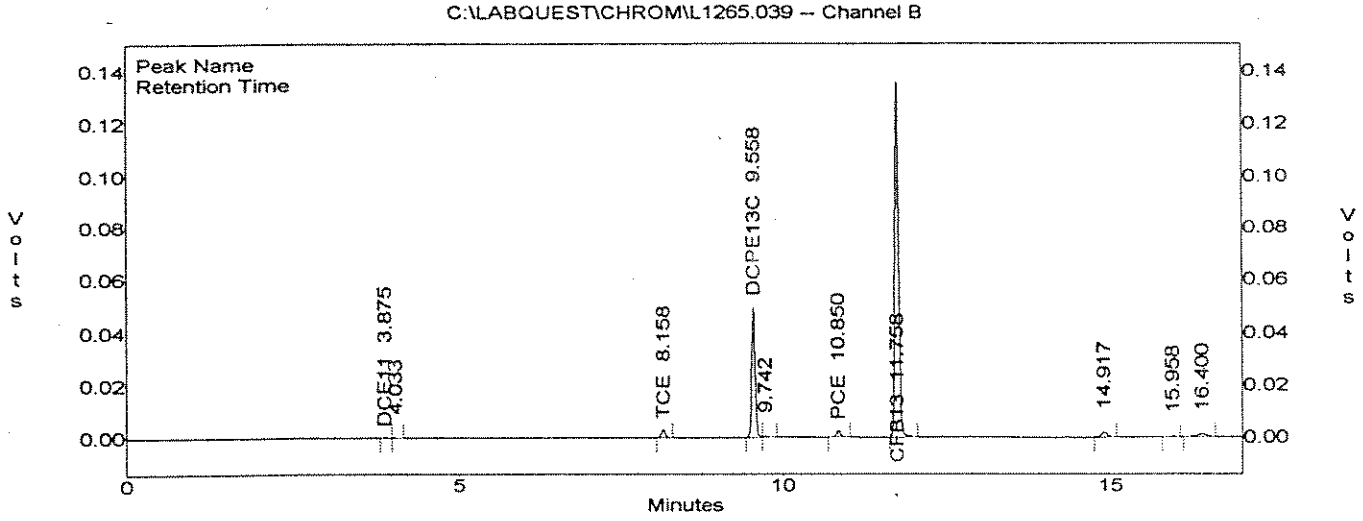


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.333	12600	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
2	DCE11+FR113	3.958	1742	0.241	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
3	TCA111	6.833	7221	0.692	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
4	TCE	8.200	42083	3.983	0
5		8.533	11466	0.000	0
6	DCPE13C	9.600	1045661	883.760	0
--	TCA112	10.760	0	0.000	0
7	PCE	10.892	51129	3.362	0
8	CFB13	11.800	499252	874.444	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1671158	1766.481	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.039
Method : C:\LABQUEST\METHODS\L1265_2.MET
SampleID : SV-38-5C
Acquired : Dec 20, 1995 12:48:15
Printed : Dec 20, 1995 13:05:39
User : PAS



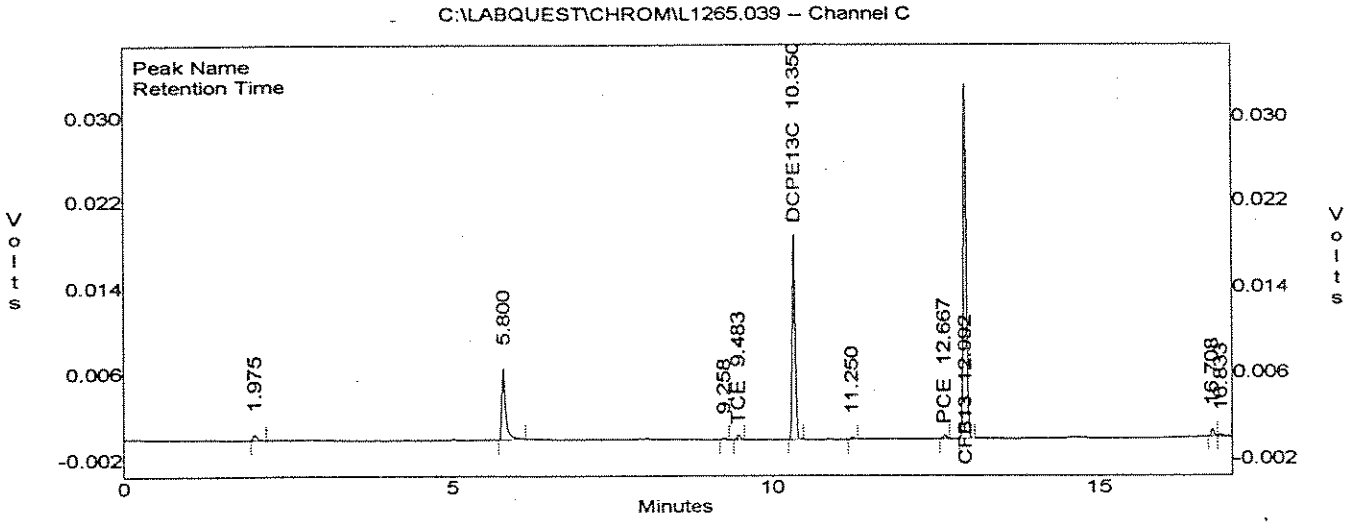
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.875	1420	0.493	0
2		4.033	508	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
3	TCE	8.158	12019	3.194	0
4	DCPE13C	9.558	184312	932.707	0
5		9.742	1612	0.000	0
--	TOL	10.050	0	0.000	0
6	PCE	10.850	11275	3.667	0
7	CFB13	11.758	551972	934.608	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
8		14.917	11747	0.000	0
9		15.958	968	0.000	0
10		16.400	10013	0.000	0

Totals :

	785849	1874.668

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.039
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-38-5C
Acquired : Dec 20, 1995 12:48:15
Printed : Dec 20, 1995 13:05:40
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.975	2206	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.800	27663	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.258	560	0.000	0
4	TCE	9.483	1428	4.790	0
5	DCPE13C	10.350	65860	999.276	0
--	TCA112	11.110	0	0.000	0
6		11.250	618	0.000	0
--	TOL	11.430	0	0.000	0
7	PCE	12.667	1186	4.990	0
8	CFB13	12.992	119447	988.451	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
9		16.708	2215	0.000	0
10		16.833	1595	0.000	0
Totals :			222783	1997.507	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: SV-28-5

Probe Depth (ft): 5

Time Sampled: 1320

Sampled by: BV

Date Sampled: 12-20-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 75

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 15

Purge Volume (liters): 400 ml

Equilibrium Time: 2 sec

Purge Time: 2 sec.

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1

Date: 12-20-95 Time: 1325

Time Injected: 1325

Loop #: manual

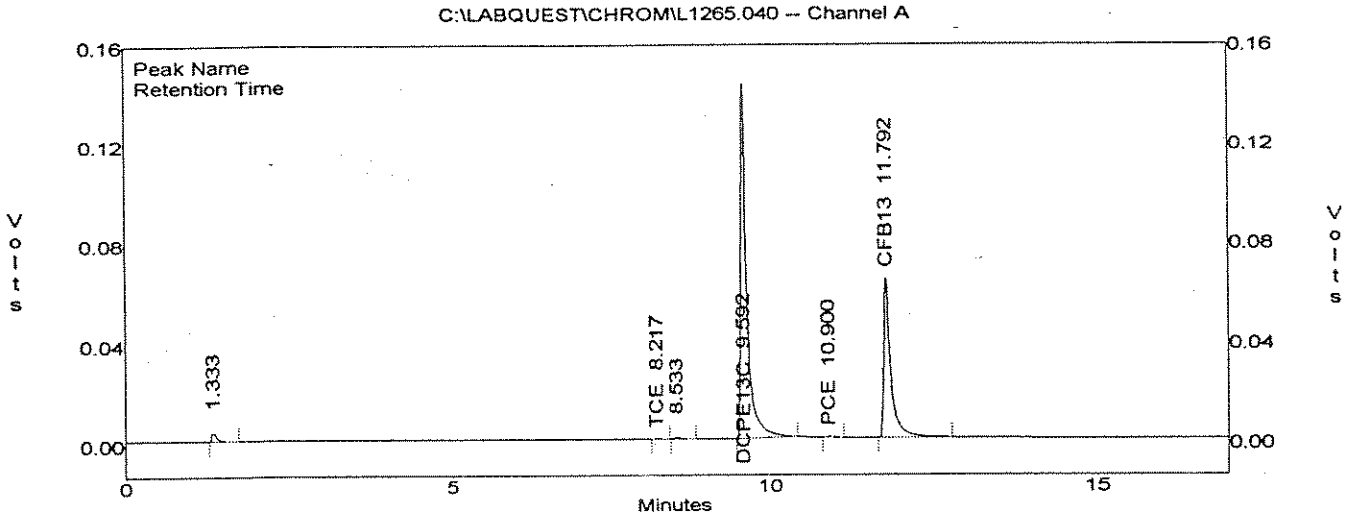
Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1	<1	Tetrachloroethene	<1	<1
Vinyl Chloride	<1	<1	1,1,1,2 PCA	<1	<1
Chloroethane	<1	<1	1,1,2,2 PCA	<1	<1
Freon 11	<1	<1	1,1-Dichloroethene	<1	<1
Dichloromethane	<1	<1	Benzene	<1	<1
trans-1,2-Dichloroethene	<1	<1	Toluene	<1	<1
1,1-Dichloroethane	<1	<1	Ethyl Benzene	<1	<1
cis-1,2-Dichloroethene	<1	<1	m/p-xylene	<1	<1
Chloroform	<1	<1	o-Xylene	<1	<1
1,1,1-trichloroethane	<1	<1			
Carbon Tetrachloride	<1	<1			
1,2-Dichloroethane	<1	<1	Freon 113	<1	<1
Trichloroethene	<1	<1			
1,1,2-Trichloroethane	<1	<1			

Surrogate Recovery ELCD: 81 82 % PID: 93 93 % FID: 100 99 %

88 83 92 93 99 99

BGPAA 0307

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.040
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-28-5
Acquired : Dec 20, 1995 13:25:18
Printed : Dec 20, 1995 13:42:38
User : PAS

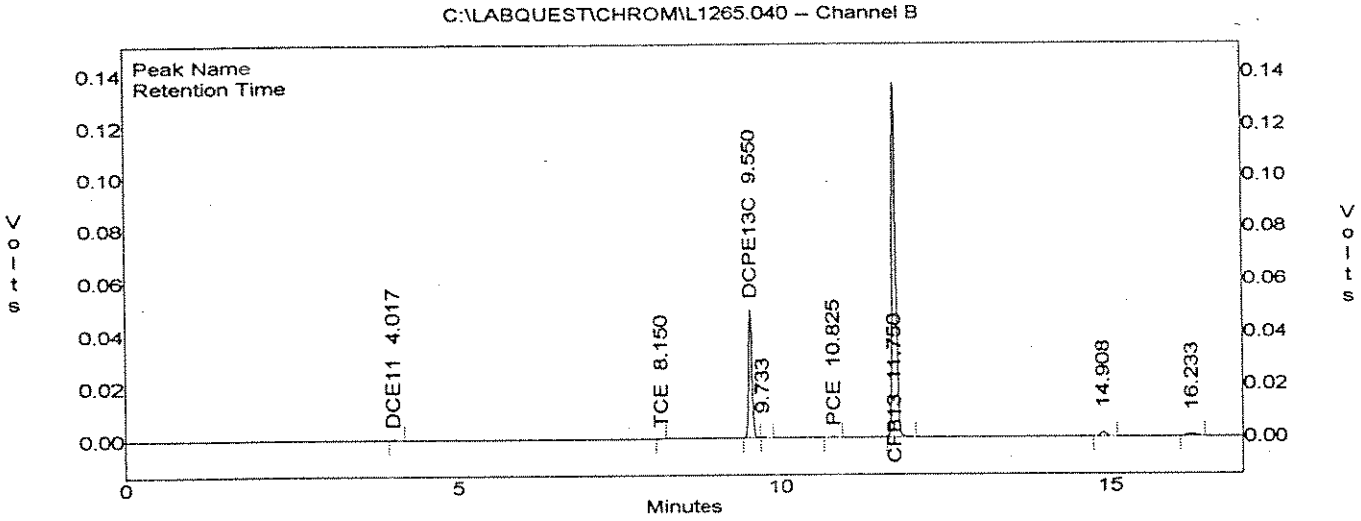


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.333	19549	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.217	1710	0.162	0
3		8.533	4148	0.000	0
4	DCPE13C	9.592	958957	810.480	0
--	TCA112	10.760	0	0.000	0
5	PCE	10.900	2634	0.173	0
6	CFB13	11.792	468784	821.079	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1455783	1631.894	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

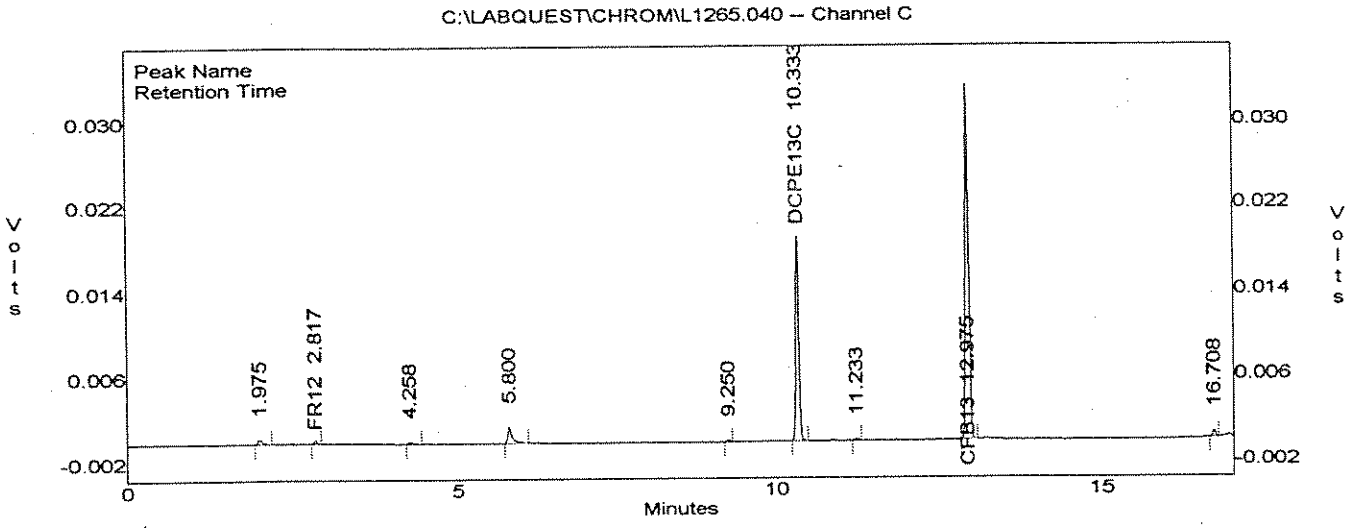
File : C:\LABQUEST\CHROM\L1265.040
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-28-5
Acquired : Dec 20, 1995 13:25:18
Printed : Dec 20, 1995 13:42:41
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.017	1934	0.671	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
2	TCE	8.150	632	0.168	0
3	DCPE13C	9.550	183064	926.394	0
4		9.733	1337	0.000	0
--	TOL	10.050	0	0.000	0
5	PCE	10.825	1591	0.518	0
6	CFB13	11.750	548981	929.543	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
7		14.908	11277	0.000	0
8		16.233	7151	0.000	0
Totals :			755970	1857.294	

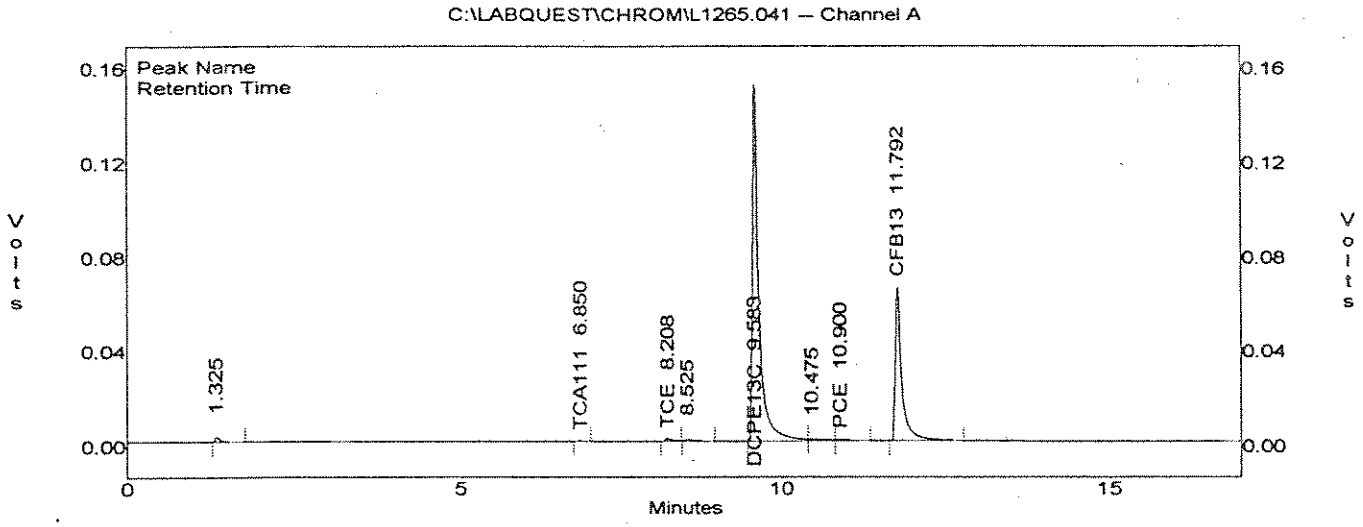
Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.040
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-28-5
Acquired : Dec 20, 1995 13:25:18
Printed : Dec 20, 1995 13:42:43
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.975	2121	0.000	0
2	FR12	2.817	1196	2.313	0
--	VC	3.640	0	0.000	0
3		4.258	685	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
4		5.800	7283	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
5		9.250	535	0.000	0
--	TCE	9.520	0	0.000	0
6	DCPE13C	10.333	65594	995.240	0
--	TCA112	11.110	0	0.000	0
7		11.233	569	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
8	CFB13	12.975	119088	985.476	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
9		16.708	1890	0.000	0
Totals :			198964	1983.029	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.041
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-28-5
Acquired : Dec 20, 1995 13:52:30
Printed : Dec 20, 1995 14:09:44
User : PAS



Channel A Results

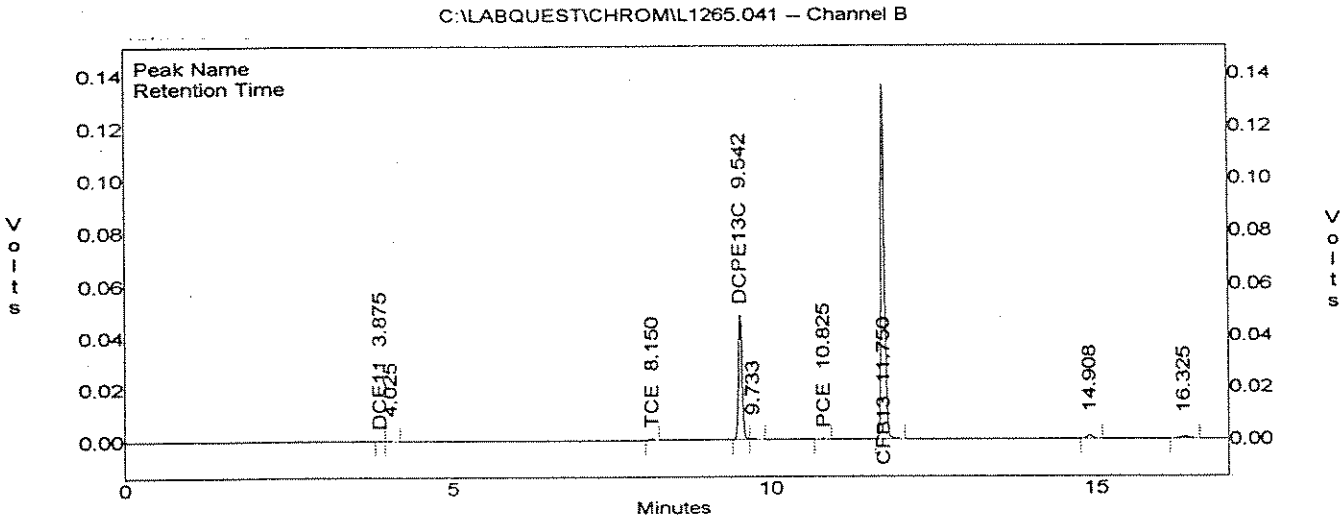
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.325	12553	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
2	TCA111	6.850	1134	0.109	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.208	8514	0.806	0
4		8.525	6949	0.000	0
5	DCPE13C	9.583	1043449	881.891	0
6		10.475	11770	0.000	0
--	TCA112	10.760	0	0.000	0
7	PCE	10.900	7292	0.479	0
8	CFB13	11.792	471361	825.592	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

	1563025	1708.877

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.041
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-28-5
Acquired : Dec 20, 1995 13:52:30
Printed : Dec 20, 1995 14:09:47
User : PAS

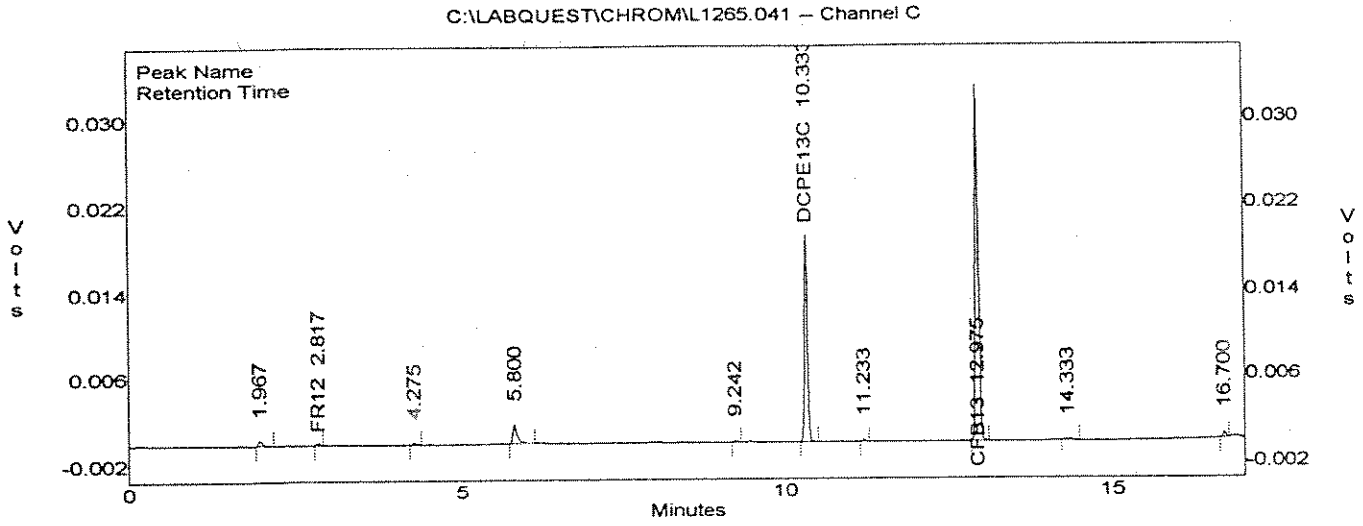


Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.875	1010	0.351	0
2		4.025	1248	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
3	TCE	8.150	2625	0.697	0
4	DCPE13C	9.542	182237	922.209	0
5		9.733	1617	0.000	0
--	TOL	10.050	0	0.000	0
6	PCE	10.825	1505	0.490	0
7	CFB13	11.750	547965	927.823	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
8		14.908	9194	0.000	0
9		16.325	7646	0.000	0

Totals : 755051 1851.569

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.041
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-28-5
Acquired : Dec 20, 1995 13:52:30
Printed : Dec 20, 1995 14:09:49
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.967	2165	0.000	0
2	FR12	2.817	749	1.448	0
--	VC	3.640	0	0.000	0
3		4.275	649	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
4		5.800	8119	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
5		9.242	543	0.000	0
--	TCE	9.520	0	0.000	0
6	DCPE13C	10.333	65489	993.639	0
--	TCA112	11.110	0	0.000	0
7		11.233	599	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
8	CFB13	12.975	119327	987.458	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
9		14.333	681	0.000	0
--	XYLO	14.830	0	0.000	0
10		16.700	1501	0.000	0
Totals :			199824	1982.546	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-37-5

Probe Depth (ft): 5

Time Sampled: 1402

Sampled by: BV

Date Sampled: 12-20-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 75

Wind dir/speed: South/ 1mph.

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 16

Purge Volume (liters): 400 ml

Equilibrium Time: 1 sec

Purge Time: 2 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1

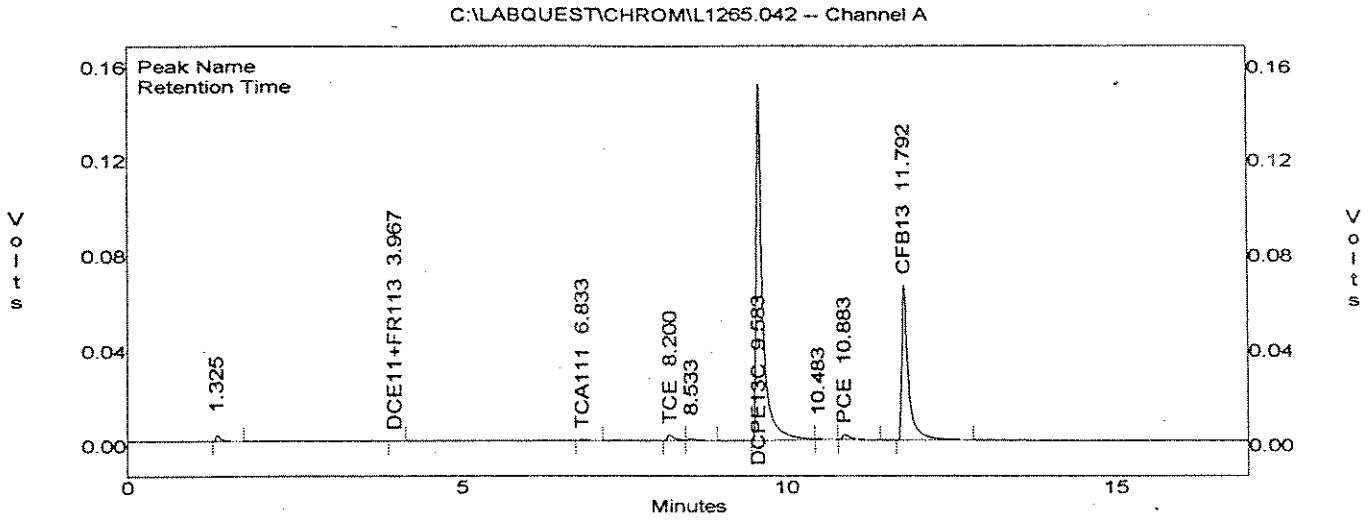
Date: 12-20-95 Time: 1405

Time Injected: 1414 Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	1.2 J	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	1.8 J				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 86 83 % PID: 92 93 % FID: 100 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.042
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-37-5
Acquired : Dec 20, 1995 14:15:32
Printed : Dec 20, 1995 14:32:54
User : PAS



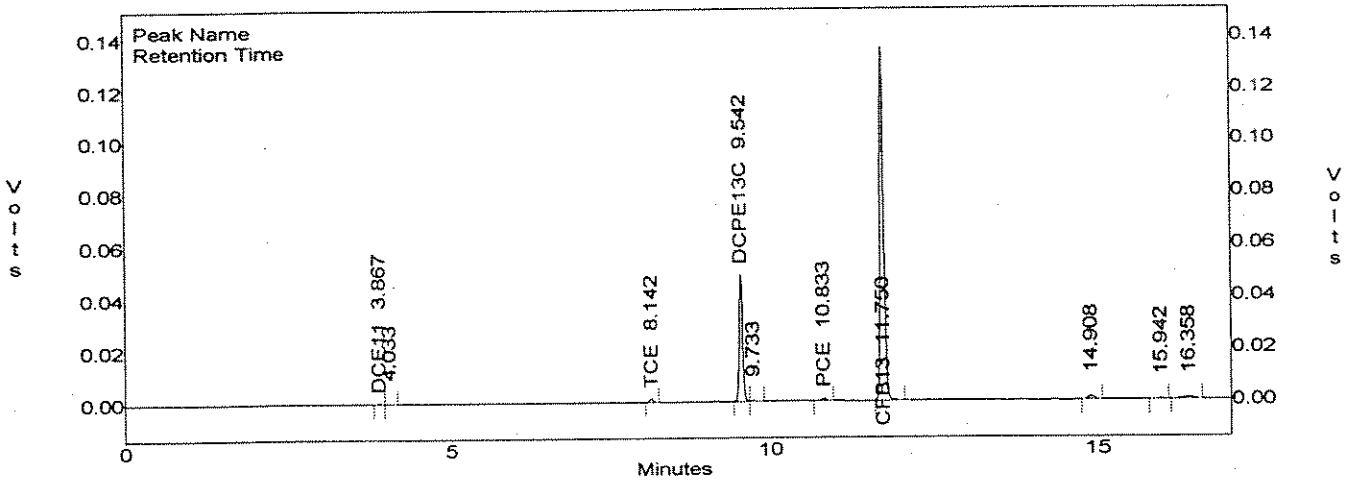
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.325	14954	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
2	DCE11+FR113	3.967	887	0.123	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
3	TCA111	6.833	4322	0.414	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
4	TCE	8.200	18805	1.780	0
5		8.533	7538	0.000	0
6	DCPE13C	9.583	1014367	857.311	0
7		10.483	4503	0.000	0
--	TCA112	10.760	0	0.000	0
8	PCE	10.883	18310	1.204	0
9	CFB13	11.792	473480	829.303	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1557168	1690.135	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.042
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-37-5
Acquired : Dec 20, 1995 14:15:32
Printed : Dec 20, 1995 14:32:58
User : PAS

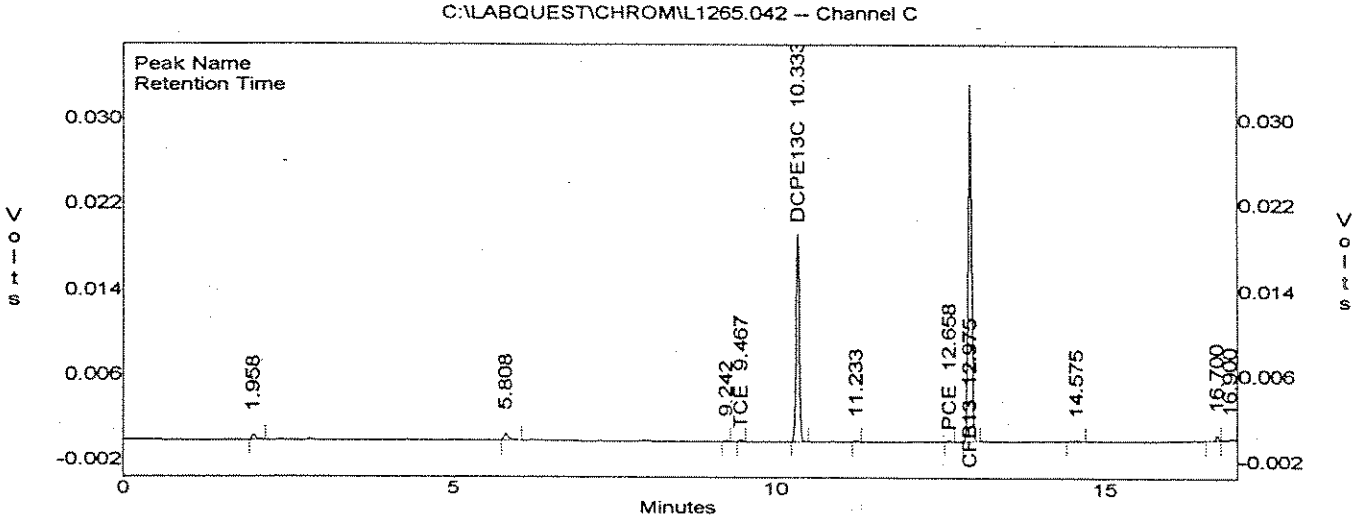
C:\LABQUEST\CHROM\L1265.042 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.867	1073	0.372	0
2		4.033	575	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
3	TCE	8.142	5694	1.513	0
4	DCPE13C	9.542	181981	920.911	0
5		9.733	1587	0.000	0
--	TOL	10.050	0	0.000	0
6	PCE	10.833	4743	1.542	0
7	CFB13	11.750	550342	931.848	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
8		14.908	9128	0.000	0
9		15.942	1605	0.000	0
10		16.358	7855	0.000	0
Totals :			764585	1856.187	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.042
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-37-5
Acquired : Dec 20, 1995 14:15:32
Printed : Dec 20, 1995 14:32:59
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.958	2124	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.808	3398	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.242	555	0.000	0
4	TCE	9.467	758	2.545	0
5	DCPE13C	10.333	66065	1002.386	0
--	TCA112	11.110	0	0.000	0
6		11.233	590	0.000	0
--	TOL	11.430	0	0.000	0
7	PCE	12.658	506	2.130	0
8	CFB13	12.975	120762	999.331	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
9		14.575	622	0.000	0
--	XYLO	14.830	0	0.000	0
10		16.700	1835	0.000	0
11		16.900	1423	0.000	0

Totals :

	198642	2006.393

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-27-5

Probe Depth (ft): 5

Time Sampled: 1455

Sampled by: BV

Date Sampled: 12-20-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 75

Wind dir/speed: South/1mph

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 12

Purge Volume (liters): 400

Equilibrium Time: 2sec

Purge Time: 2sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

Date: 12-20-95 Time: 1500

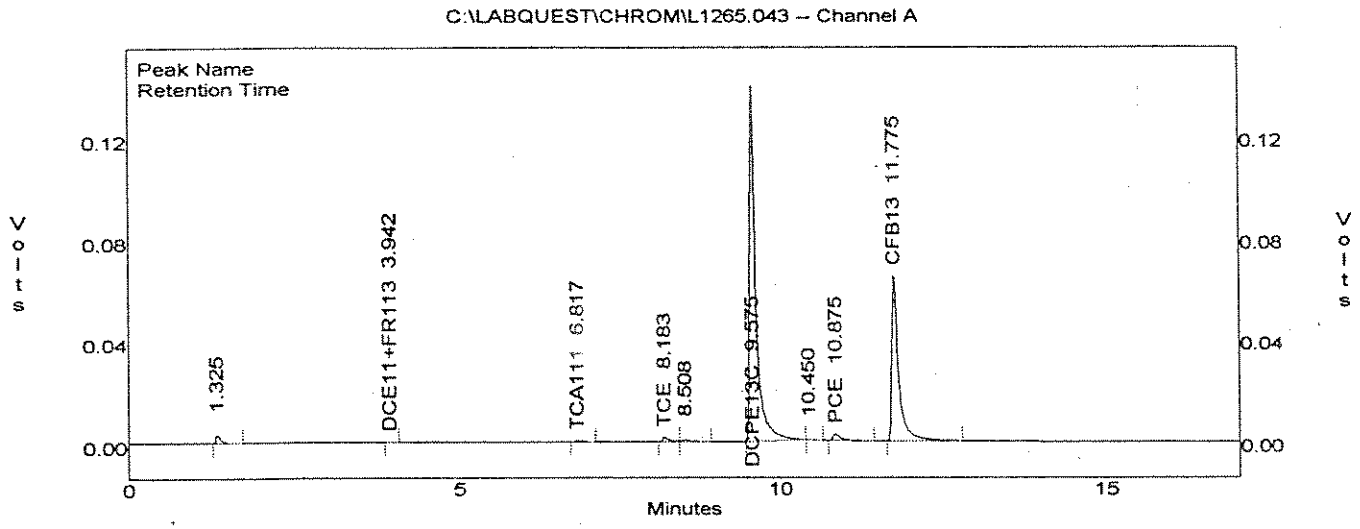
Time Injected: 1501

Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	1.4 J	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1 J		Freon 113	<1	
Trichloroethene	1.2				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 80 83 % PID: 92 93 % FID: 99 99 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.043
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-27-5
Acquired : Dec 20, 1995 14:59:29
Printed : Dec 20, 1995 15:16:48
User : PAS



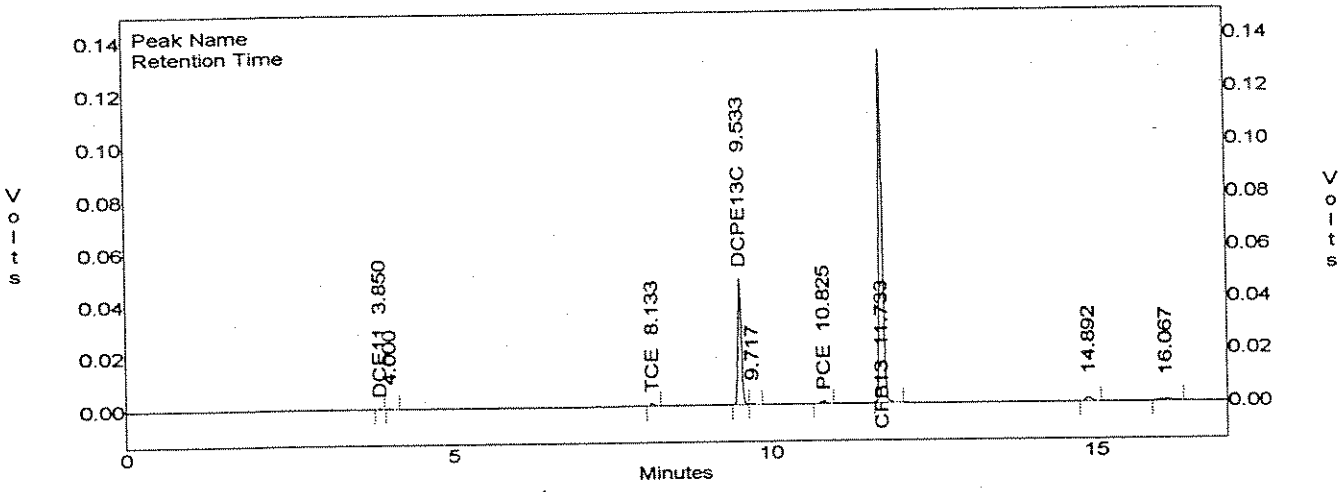
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.325	16447	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
2	DCE11+FR113	3.942	504	0.070	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
3	TCA111	6.817	3026	0.290	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
4	TCE	8.183	12195	1.154	0
5		8.508	6271	0.000	0
6	DCPE13C	9.575	943067	797.051	0
7		10.450	600	0.000	0
--	TCA112	10.760	0	0.000	0
8	PCE	10.875	21665	1.425	0
9	CFB13	11.775	475720	833.227	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1479499	1633.217	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.043
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-27-5
Acquired : Dec 20, 1995 14:59:29
Printed : Dec 20, 1995 15:16:51
User : PAS

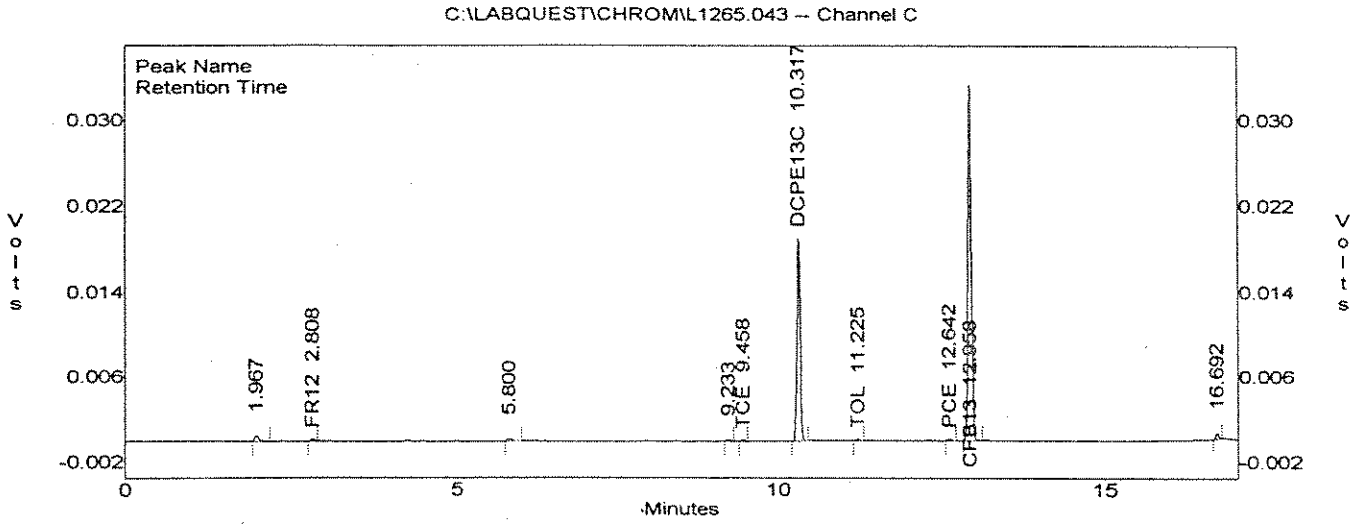
C:\LABQUEST\CHROM\L1265.043 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.850	978	0.339	0
2		4.000	1550	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
3	TCE	8.133	4203	1.117	0
4	DCPE13C	9.533	180945	915.669	0
5		9.717	1581	0.000	0
--	TOL	10.050	0	0.000	0
6	PCE	10.825	5357	1.742	0
7	CFB13	11.733	545614	923.841	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
8		14.892	10509	0.000	0
9		16.067	7916	0.000	0
Totals :			758655	1842.708	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.043
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-27-5
Acquired : Dec 20, 1995 14:59:29
Printed : Dec 20, 1995 15:16:53
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.967	2256	0.000	0
2	FR12	2.808	753	~~1.456~~ Not on	0
--	VC	3.640	0	0.000 Hall	0
--	CLET	4.450	0	0.000 PCO	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
3		5.800	1251	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
4		9.233	563	0.000	0
5	TCE	9.458	562	1.886	0
6	DCPE13C	10.317	65543	994.466	0
--	TCA112	11.110	0	0.000	0
7	TOL	11.225	596	0.395	0
8	PCE	12.642	587	2.469	0
9	CFB13	12.958	120141	994.190	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
10		16.692	1733	0.000	0

Totals :

193988 1994.862

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-36-5

Probe Depth (ft): 5

Time Sampled: 1522

Sampled by: BV

Date Sampled: 12-20-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 75

Wind dir/speed: South/1 mph

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 17

Purge Volume (liters): 400ml

Equilibrium Time: 2sec

Purge Time: 2sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

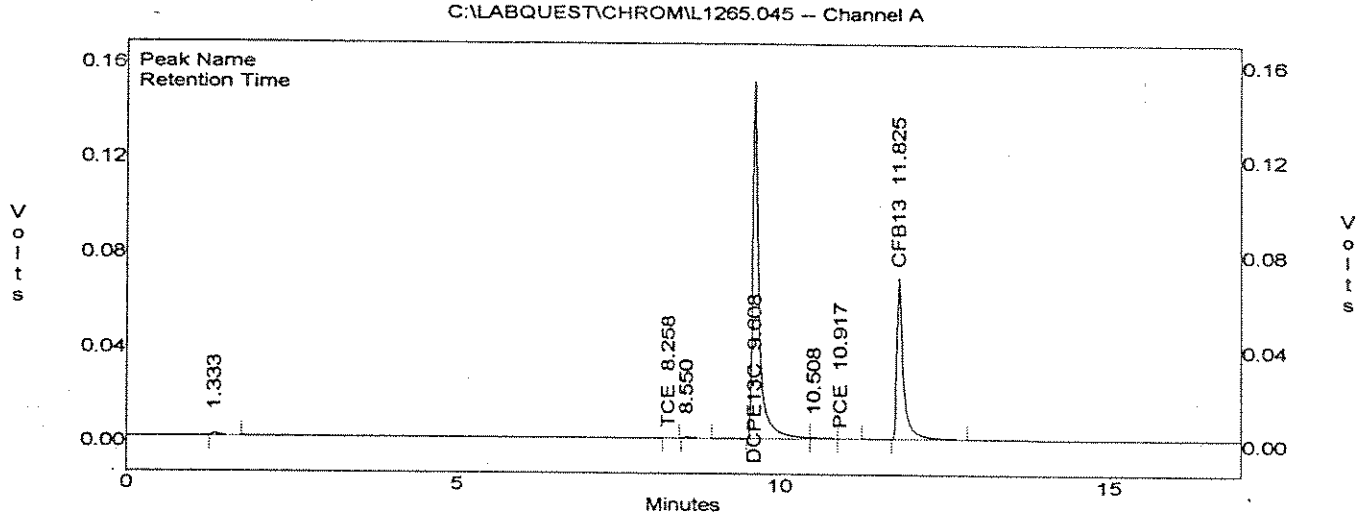
Date: 12-20-95 Time: 1530

Time Injected: 1530 Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 85 85 % PID: 92 92 % FID: 100 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.045
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-36-5
Acquired : Dec 20, 1995 15:31:07
Printed : Dec 20, 1995 15:48:26
User : PAS



Channel A Results

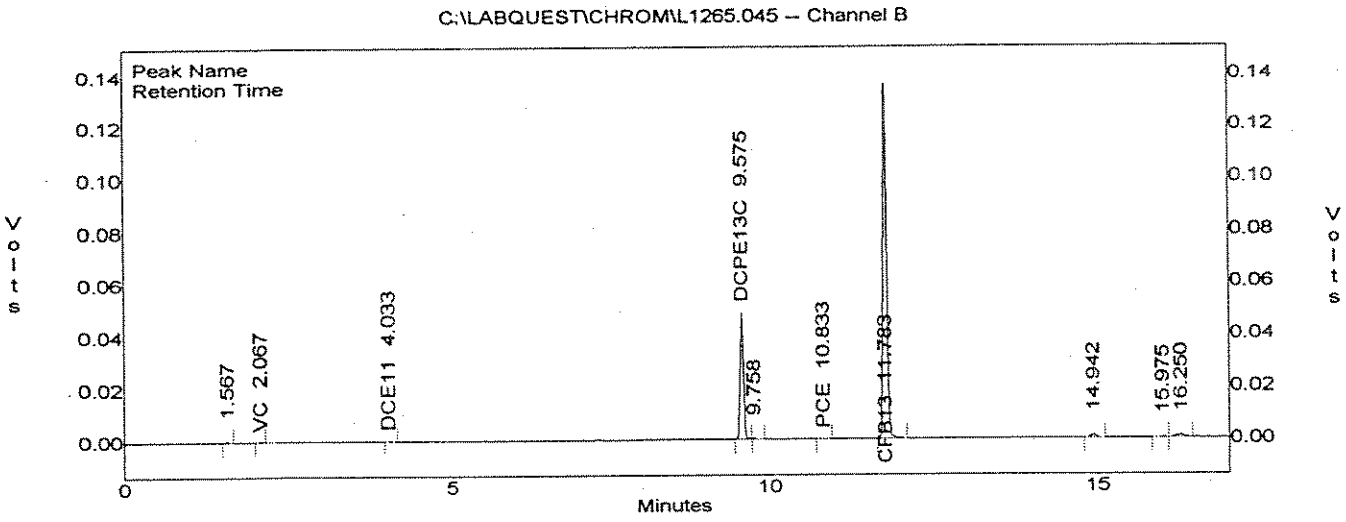
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.333	9067	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.258	734	0.069	0
3		8.550	4582	0.000	0
4	DCPE13C	9.608	1011371	854.780	0
5		10.508	10461	0.000	0
--	TCA112	10.760	0	0.000	0
6	PCE	10.917	2387	0.157	0
7	CFB13	11.825	486062	851.340	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

	1524667	1706.347

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

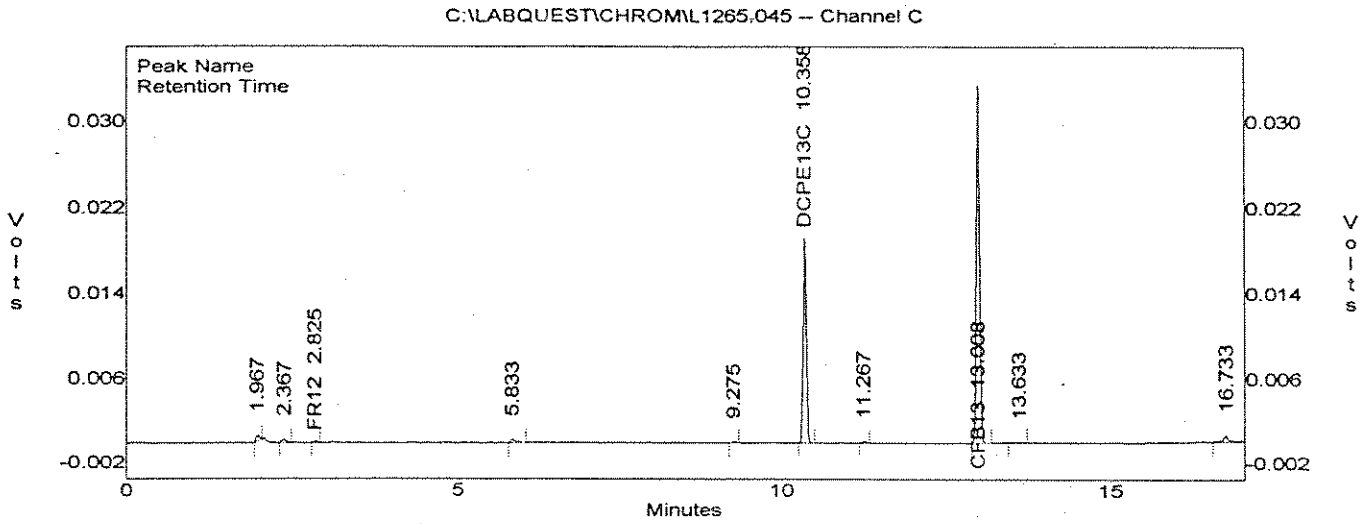
File : C:\LABQUEST\CHROM\L1265.045
Method : C:\LABQUEST\METHODS\L1265_2.MET
SampleID : SV-36-5
Acquired : Dec 20, 1995 15:31:07
Printed : Dec 20, 1995 15:48:29
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1		1.567	1735	0.000	0
2	VC	2.067	773	~~0.783~~ PS	0
3	DCE11	4.033	823	~~0.286~~	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
4	DCPE13C	9.575	181301	917.472	0
5		9.758	1399	0.000	0
--	TOL	10.050	0	0.000	0
6	PCE	10.833	744	0.242	0
7	CFB13	11.783	547236	926.589	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
8		14.942	8513	0.000	0
9		15.975	1183	0.000	0
10		16.250	7757	0.000	0
Totals :			751466	1845.372	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.045
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-36-5
Acquired : Dec 20, 1995 15:31:07
Printed : Dec 20, 1995 15:48:31
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.967	2218	0.000	0
2		2.367	1347	0.000	0
3	FR12	2.825	574	~~1.110~~ Not	0
--	VC	3.640	0	0.000 on	0
--	CLET	4.450	0	0.000 Hall	0
--	DCE11+DCM	5.050	0	0.000 PS	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
4		5.833	1813	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
5		9.275	565	0.000	0
--	TCE	9.520	0	0.000	0
6	DCPE13C	10.358	66086	1002.708	0
--	TCA112	11.110	0	0.000	0
7		11.267	623	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
8	CFB13	13.008	121323	1003.976	0
--	PCA1112	13.490	0	0.000	0
9		13.633	643	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
10		16.733	4086	0.000	0

Totals :

		199280	2007.794

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 6 S

Sample I.D.: SV-31-5

Probe Depth (ft): 5

Time Sampled: 1548

Sampled by: BV

Date Sampled: 12-20-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 72

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 14

Purge Volume (liters): 400

Equilibrium Time: 2sec

Purge Time: 2sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

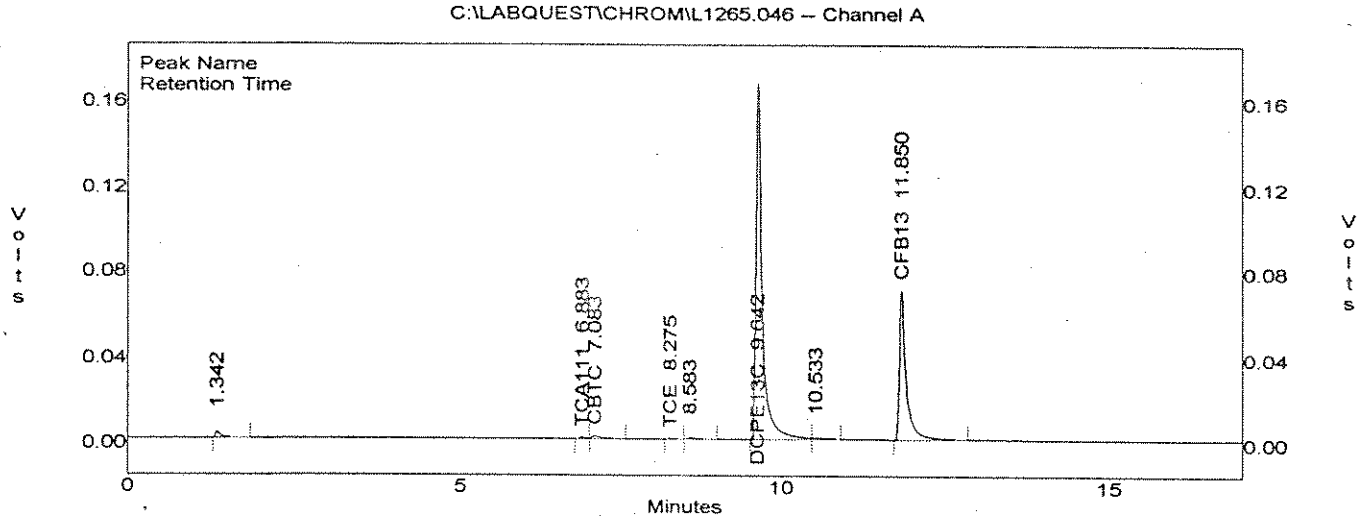
Date: 12-20-95 Time: 1550

Time Injected: 1550 Loop #: manual

Compound	Concentration (ug/1)	Compound	Concentration (ug/1)
Freon 12	<1	Tetrachloroethene	<1
Vinyl Chloride	<1	1,1,1,2 PCA	<1
Chloroethane	<1	1,1,2,2 PCA	<1
Freon 11	<1	1,1-Dichloroethene	<1
Dichloromethane	<1	Benzene	<1
trans-1,2-Dichloroethene	<1	Toluene	<1
1,1-Dichloroethane	<1	Ethyl Benzene	<1
cis-1,2-Dichloroethene	<1	m/p-xylene	<1
Chloroform	<1	o-Xylene	<1
1,1,1-trichloroethane	<1		
Carbon Tetrachloride	~~<1~~ PS 1.0 ✓		
1,2-Dichloroethane	<1	Freon 113	<1
Trichloroethene	<1		
1,1,2-Trichloroethane	<1		

Surrogate Recovery ELCD: 95 88 % PID: 92 93 % FID: 101 101 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.046
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-31-5
Acquired : Dec 20, 1995 15:55:02
Printed : Dec 20, 1995 16:12:23
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.342	17087	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
2	TCA111	6.883	4183	0.401	0
3	CBTC	7.083	12673	~~1.036~~	0
--	DCA12	7.390	0	0.000	0
4	TCE	8.275	2593	0.245	0
5		8.583	6373	0.000	0
6	DCPE13C	9.642	1128260	953.570	0
7		10.533	7229	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
8	CFB13	11.850	503779	882.372	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

can't OK 12-21-95 PS
confirm on FID

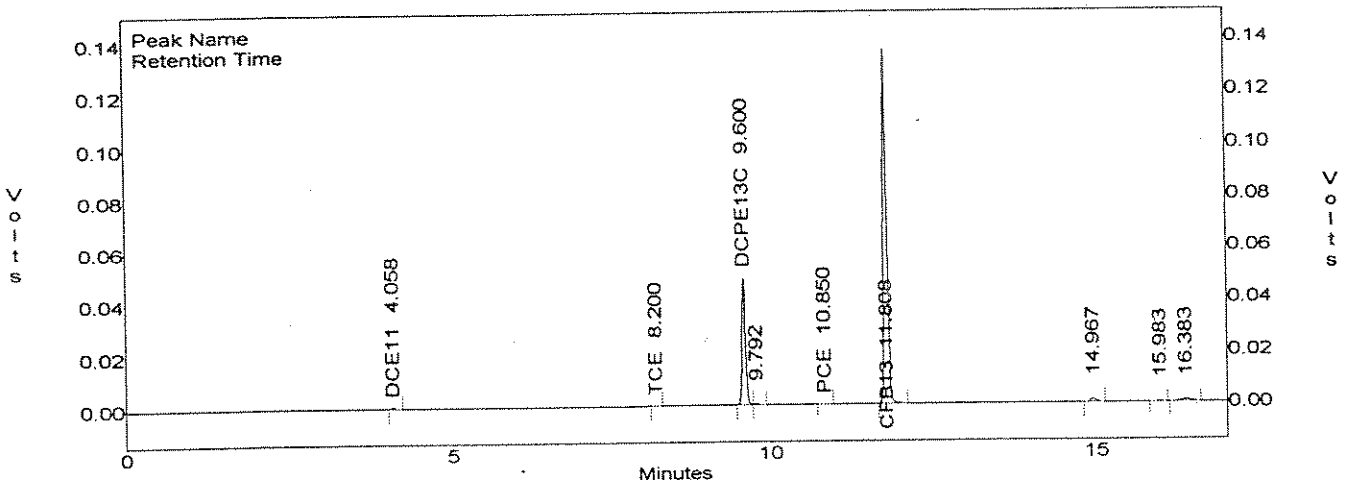
Totals :

	1682180	1837.624

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.046
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-31-5
Acquired : Dec 20, 1995 15:55:02
Printed : Dec 20, 1995 16:12:27
User : PAS

C:\LABQUEST\CHROM\L1265.046 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.058	2409	~~0.036~~ Not	0
--	DCE12T	4.910	0	0.000 on	0
--	DCE12C	6.190	0	0.000 Hell	0
--	BNZ	7.300	0	0.000	0
2	TCE	8.200	604	0.160	0
3	DCPE13C	9.600	181157	916.744	0
4		9.792	1542	0.000	0
--	TOL	10.050	0	0.000	0
5	PCE	10.850	845	0.275	0
6	CFB13	11.808	549740	930.828	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
7		14.967	8850	0.000	0
8		15.983	1283	0.000	0
9		16.383	7841	0.000	0
Totals :			754274	1848.844	

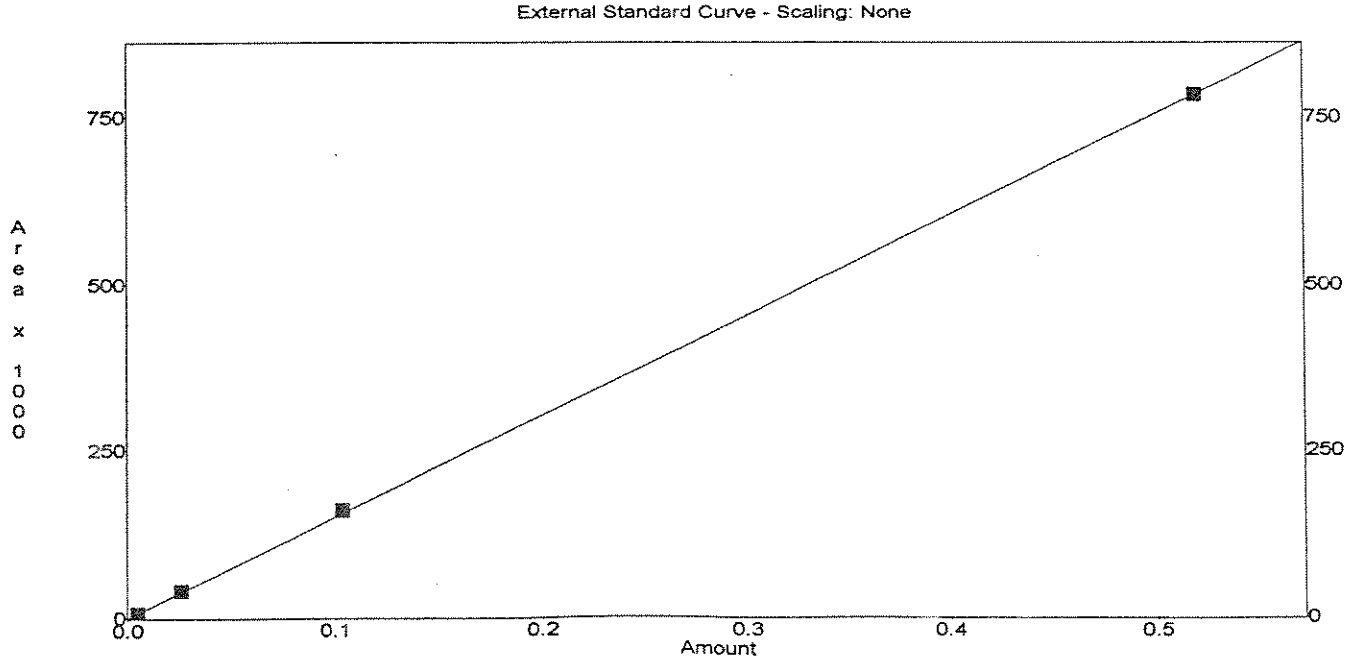
ethod : C:\LABQUEST\METHODS\L1265_2.MET * - Replicate Not Used
rinted : Dec 20, 1995 09:27:25
Channel : C
Peak : BNZ

evel	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	7259	0.00519	7.15e-007	7259					0	0
2	41172	0.026	6.315e-007	41172					0	0
3	161202	0.1038	6.439e-007	161202					0	0
4	783851	0.519	6.621e-007	783851					0	0

erage RF: 6.63128e-007
F StdDev: 3.6792e-008
F %RSD: 5.54824

Definition: Amount / Area
eighting Method: None
Fit Through Zero: Yes

near Fit: Amount = 6.613e-007 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:26
Channel : C
Peak : CBTC

* - Replicate Not Used

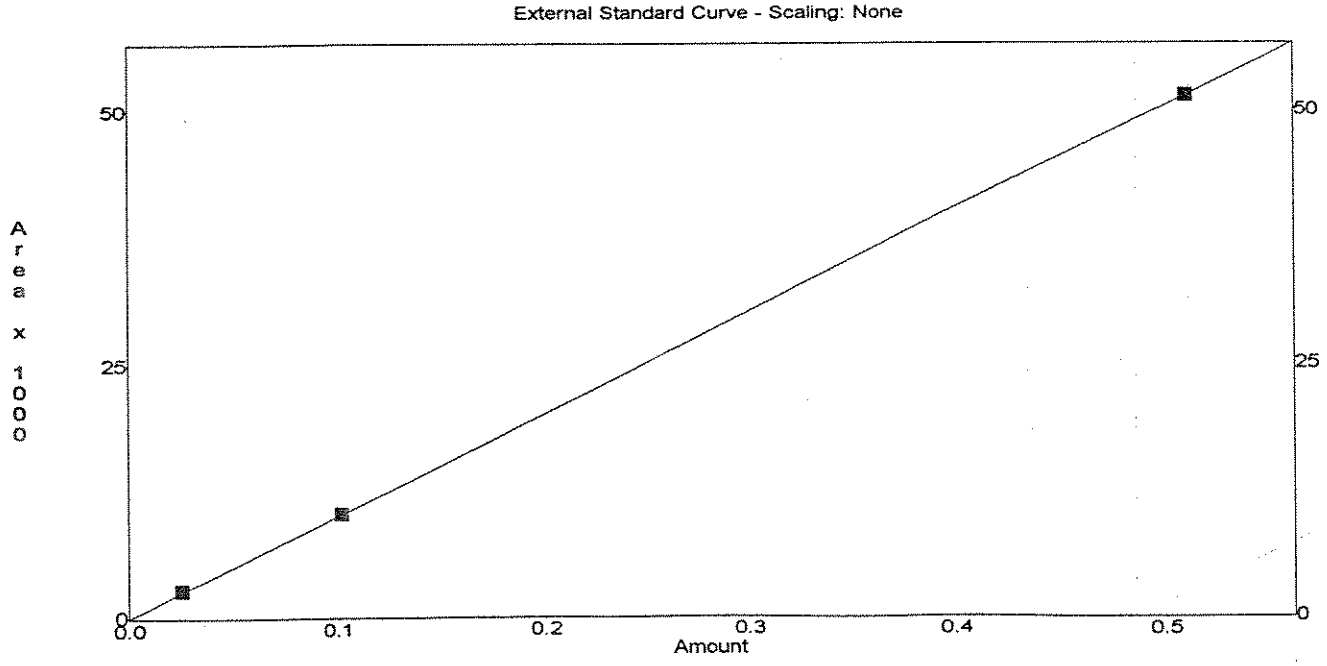
Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
2	2698	0.0255	9.451e-006	2698					0	0
3	10346	0.102	9.859e-006	10346					0	0
4	51445	0.51	9.913e-006	51445					0	0

Average RF: 9.74125e-006
RF StdDev: 2.52459e-007
RF %RSD: 2.59164

Dee Hall

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 9.910e-006 x Area + 0.000e+000
R^2 = 1.0000



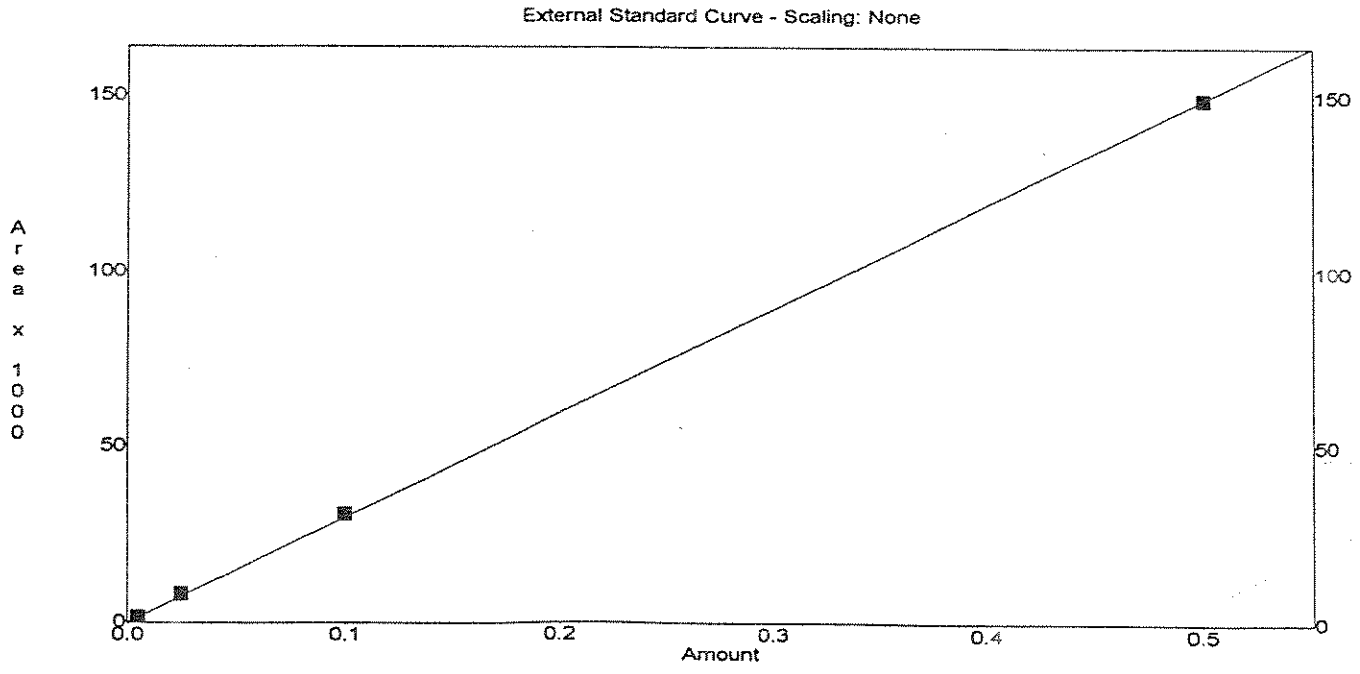
Method : C:\LABQUEST\METHODS\L1265_2.MET * - Replicate Not Used
Printed : Dec 20, 1995 09:27:28
Channel : C
Peak : TCE

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	1333	0.00501	3.758e-006	1333					0	0
2	7920	0.0251	3.169e-006	7920					0	0
3	30674	0.1002	3.267e-006	30674					0	0
4	149166	0.501	3.359e-006	149166					0	0

Average RF: 3.38827e-006
RF StdDev: 2.58612e-007
RF %RSD: 7.63258

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 3.354e-006 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:29
Channel : C
Peak : DCPE13C

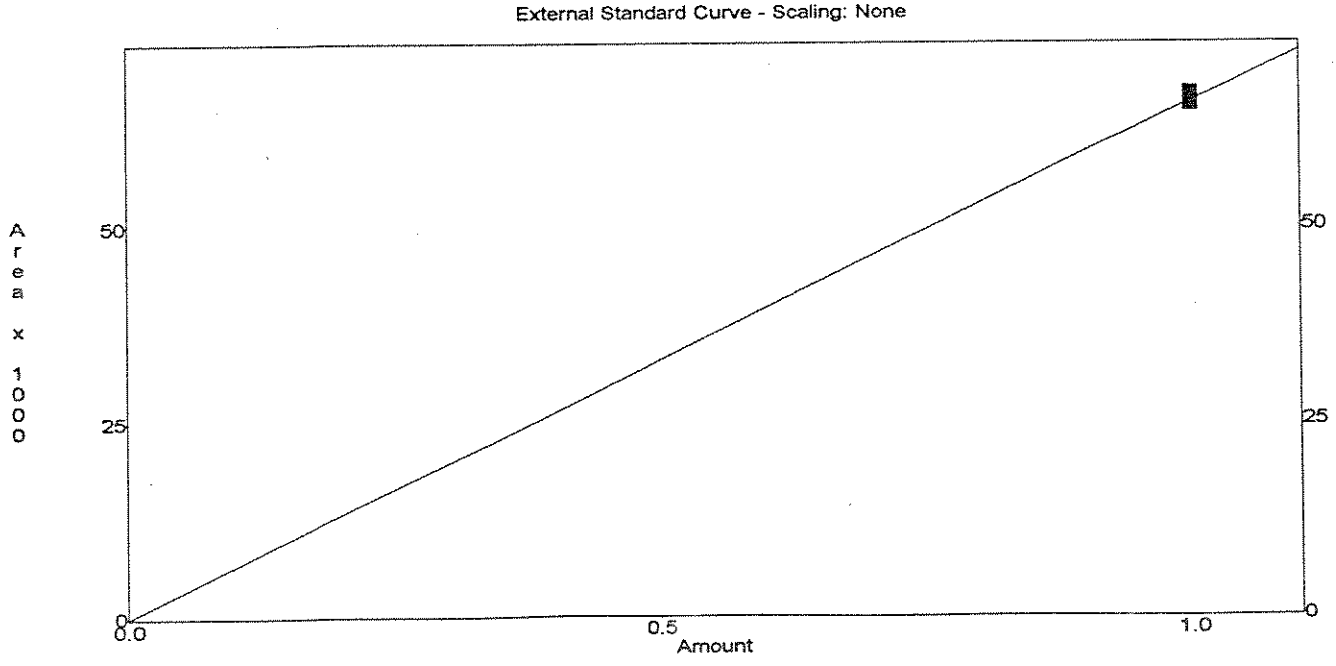
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	65391	1	1.529e-005	65391					0	
2	65528	1	1.526e-005	65528					0	
3	65719	1	1.522e-005	65719					0	
4	66972	1	1.493e-005	66972					0	0

Average RF: 1.51754e-005
RF StdDev: 1.65473e-007
RF %RSD: 1.0904

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.517e-005 x Area + 0.000e+000
R^2 = 0.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET

Printed : Dec 20, 1995 09:27:30

Channel : C

Peak : TCA112

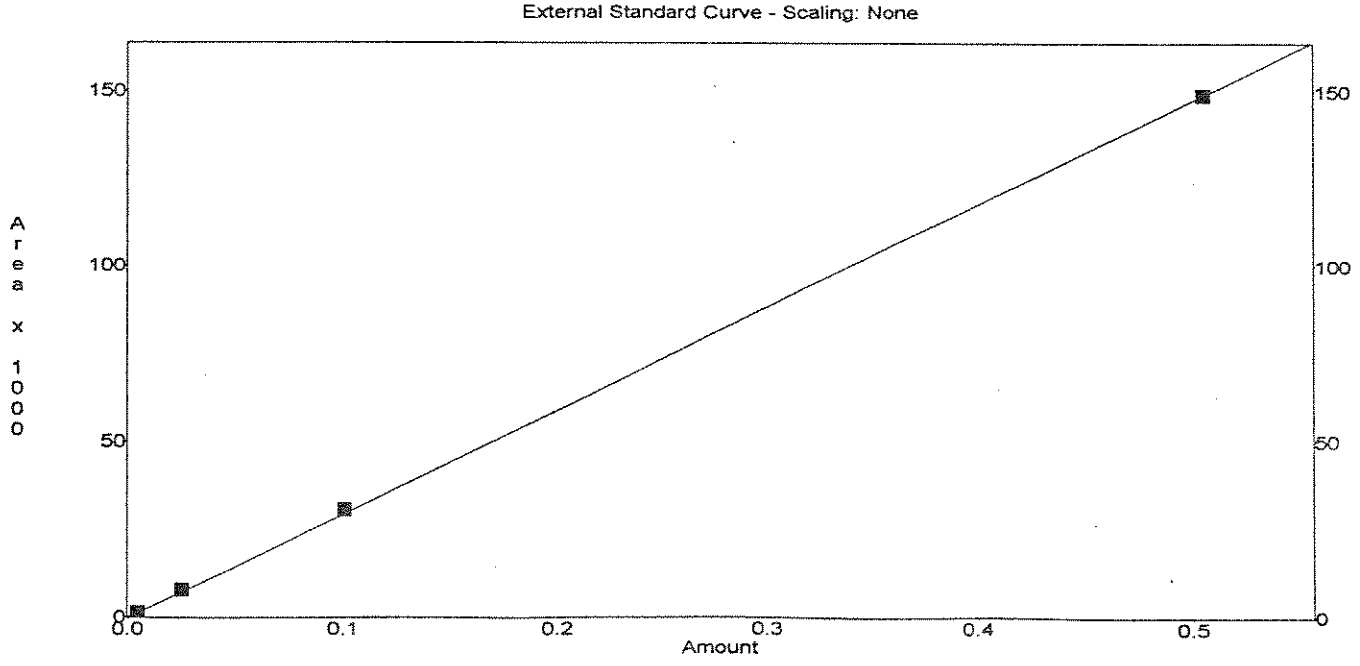
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	1447	0.00505	3.491e-006	1447					0	0
2	7966	0.0253	3.176e-006	7966					0	0
3	30882	0.101	3.27e-006	30882					0	0
4	149059	0.505	3.388e-006	149059					0	0

Average RF: 3.33128e-006
RF StdDev: 1.3705e-007
RF %RSD: 4.11403

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 3.383e-006 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:31
Channel : C
Peak : TOL

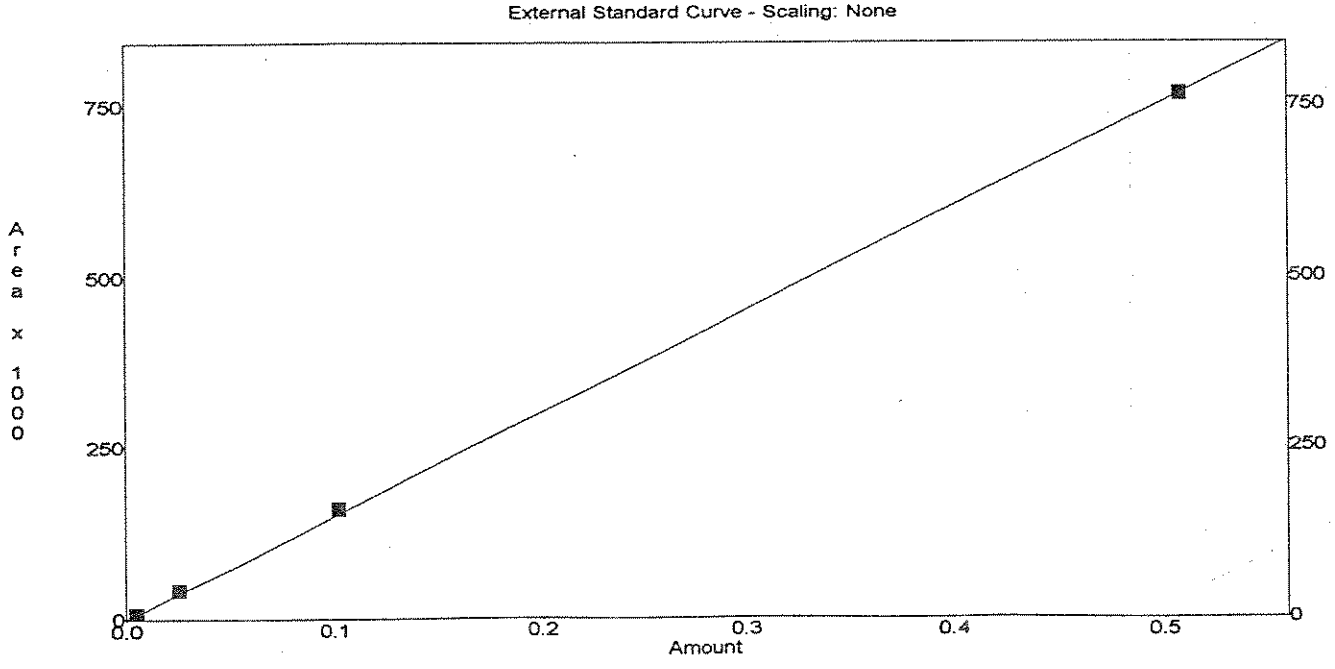
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	6934	0.00508	7.327e-007	6934					0	0
2	41395	0.0254	6.136e-007	41395					0	0
3	160581	0.102	6.352e-007	160581					0	0
4	766235	0.508	6.63e-007	766235					0	0

Average RF: 6.61107e-007
RF StdDev: 5.18038e-008
RF %RSD: 7.83592

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 6.617e-007 x Area + 0.000e+000
R^2 = 0.9999



Method : C:\LABQUEST\METHODS\L1265_2.MET

Printed : Dec 20, 1995 09:27:32

Channel : C

Peak : PCE

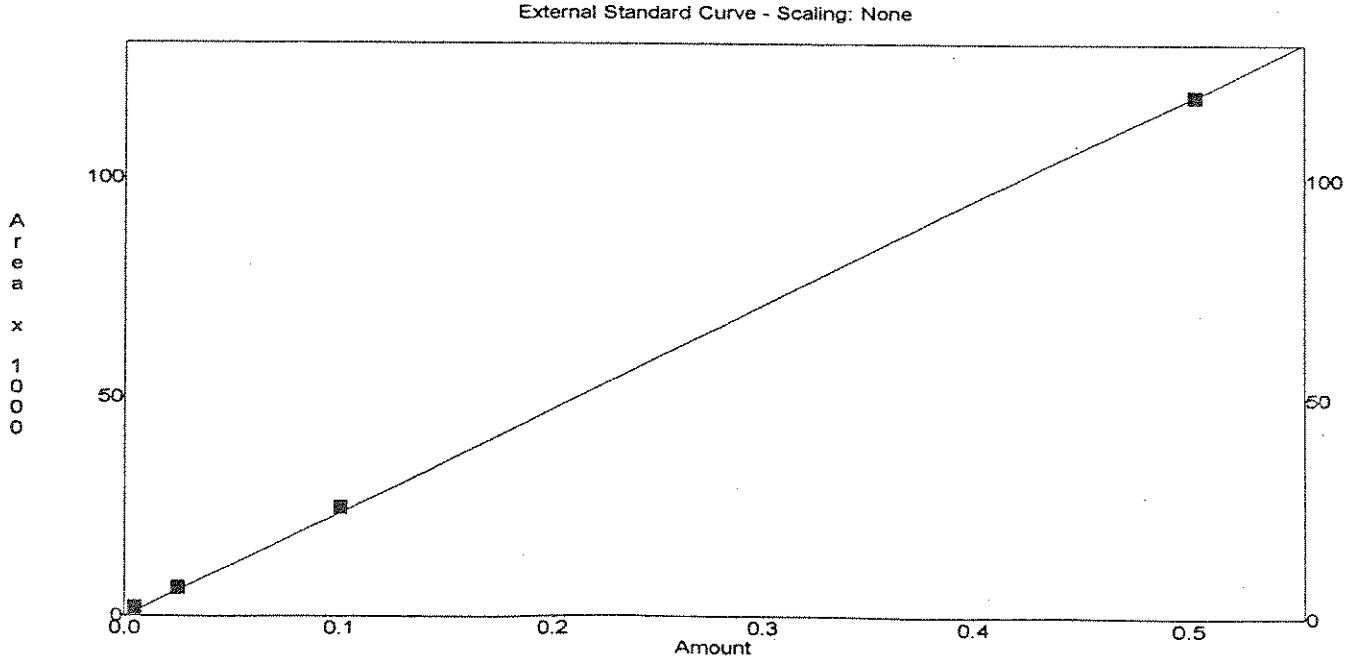
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	1777	0.00503	2.831e-006	1777					0	0
2	6391	0.0252	3.943e-006	6391					0	0
3	24960	0.1006	4.03e-006	24960					0	0
4	119351	0.503	4.214e-006	119351					0	0

Average RF: 3.7548e-006
RF StdDev: 6.25912e-007
RF %RSD: 16.6696

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 4.206e-006 x Area + 0.000e+000
R^2 = 0.9998



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:34
Channel : C
Peak : CFB13

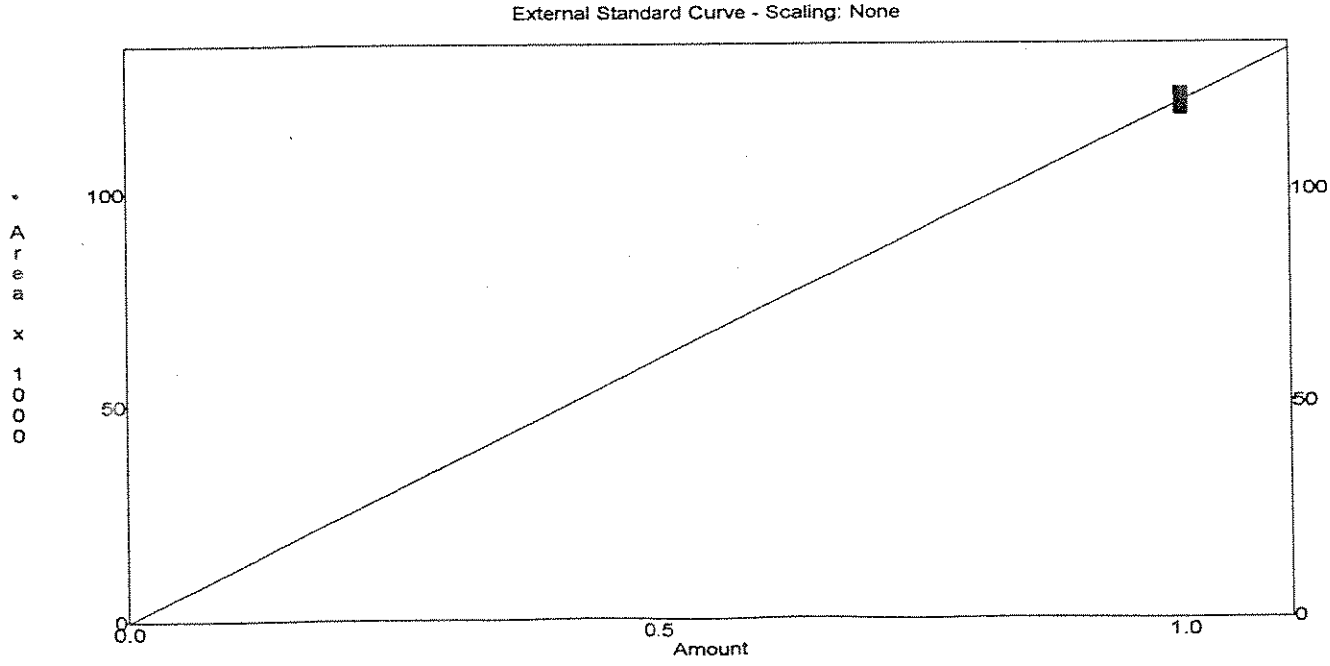
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	121651	1	8.22e-006	121651					0	0
2	120053	1	8.33e-006	120053					0	0
3	119155	1	8.392e-006	119155					0	0
4	122459	1	8.166e-006	122459					0	0

Average RF: 8.2771e-006
RF StdDev: 1.02684e-007
RF %RSD: 1.24058

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 8.275e-006 x Area + 0.000e+000
R^2 = 0.0000



Method : C:\LABQUEST\METHODS\L1265_2.MET

Printed : Dec 20, 1995 09:27:35

Channel : C

Peak : PCA1112

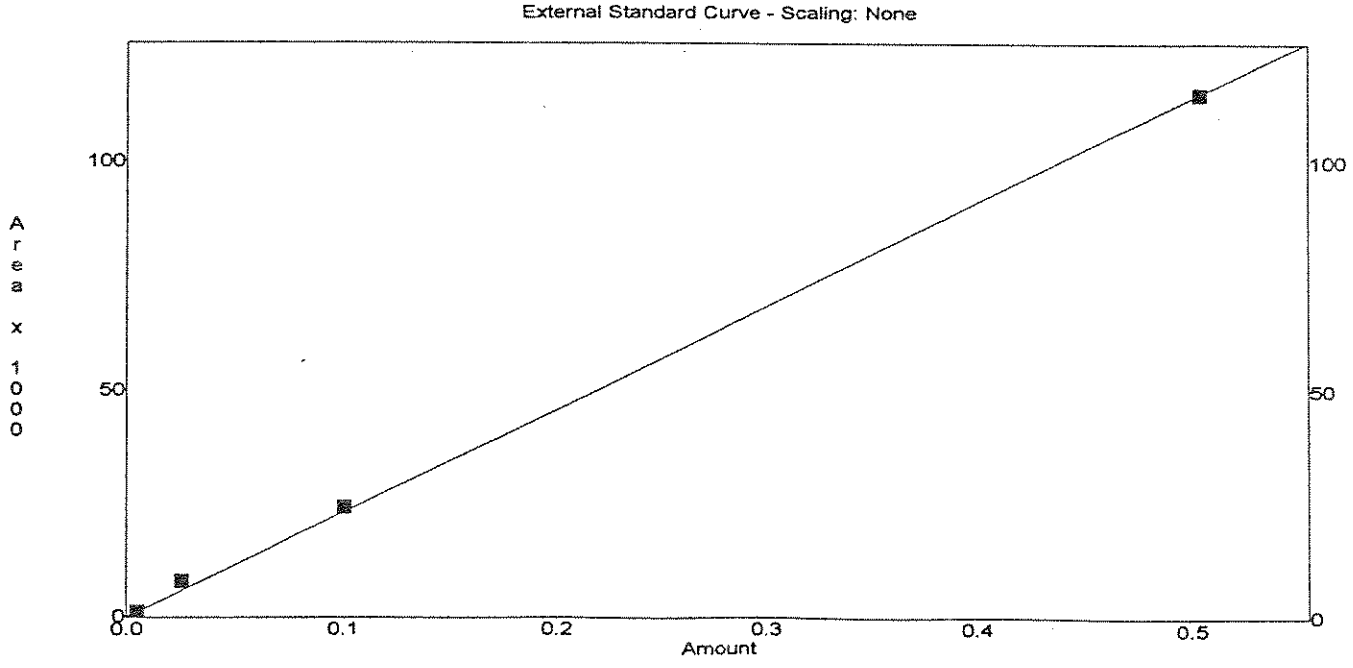
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	1093	0.00504	4.61e-006	1093					0	0
2	7829	0.0252	3.219e-006	7829					0	0
3	23885	0.1008	4.22e-006	23885					0	0
4	114959	0.504	4.384e-006	114959					0	0

Average RF: 4.10834e-006
RF StdDev: 6.14183e-007
RF %RSD: 14.9497

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 4.372e-006 x Area + 0.000e+000
R^2 = 0.9994



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:36
Channel : C
Peak : PCA1122+EB

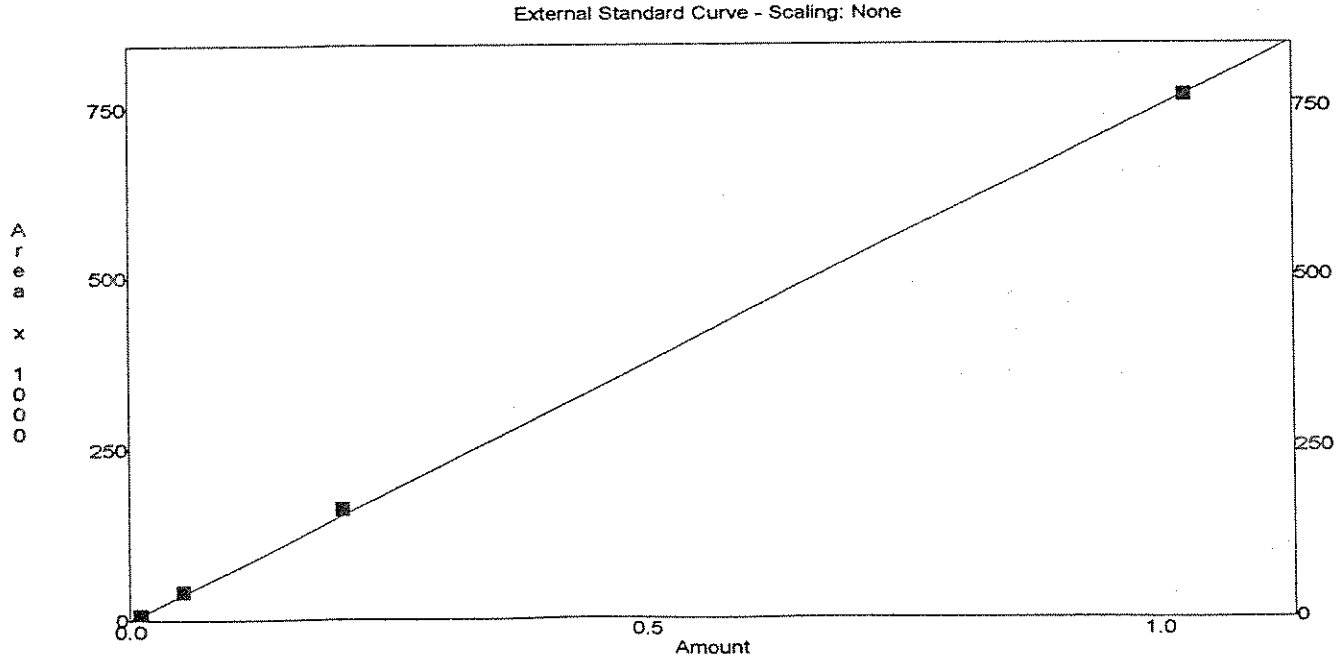
* - Replicate Not Used

Level	Area *	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	7172	0.01027	1.432e-006	7172					0	0
2	42082	0.05135	1.22e-006	42082					0	0
3	162285	0.2054	1.266e-006	162285					0	0
4	766863	1.027	1.339e-006	766863					0	0

Average RF: 1.31429e-006
RF StdDev: 9.25425e-008
RF %RSD: 7.04126

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 1.336e-006 x Area + 0.000e+000
R^2 = 0.9998



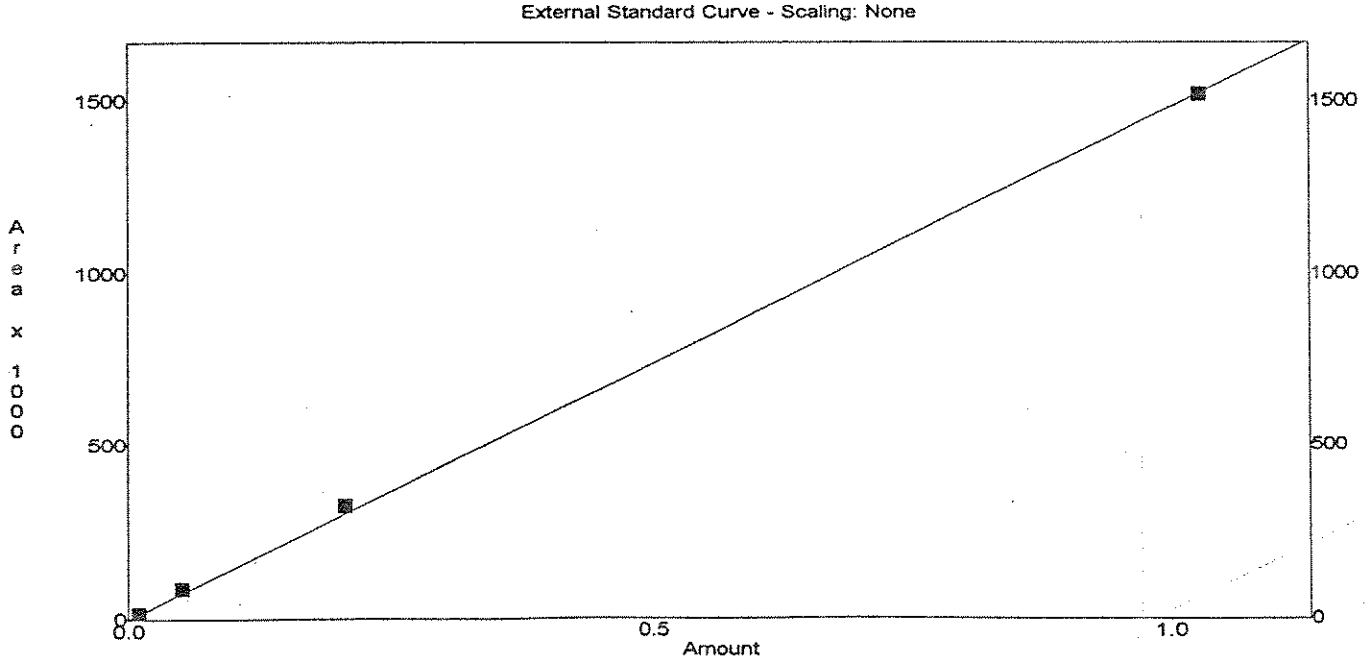
Method : C:\LABQUEST\METHODS\L1265_2.MET * - Replicate Not Used
Printed : Dec 20, 1995 09:27:37
Channel : C
Peak : XYLMP

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	14450	0.01028	7.114e-007	14450					0	0
2	86573	0.0514	5.937e-007	86573					0	0
3	325641	0.2056	6.314e-007	325641					0	0
4	1518246	1.028	6.771e-007	1518246					0	0

Average RF: 6.53407e-007
RF StdDev: 5.1568e-008
RF %RSD: 7.89216

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 6.748e-007 x Area + 0.000e+000
R^2 = 0.9996



Method : C:\LABQUEST\METHODS\L1265_2.MET
Printed : Dec 20, 1995 09:27:38
Channel : C
Peak : XYLO

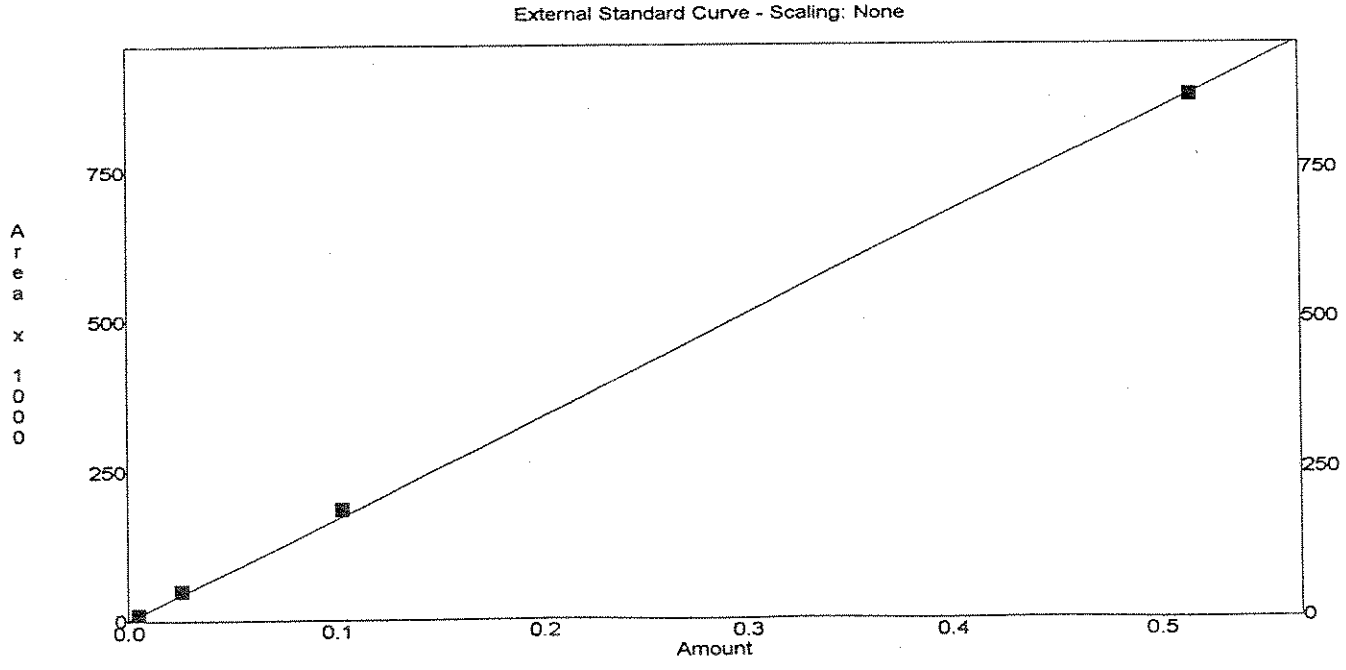
* - Replicate Not Used

Level	Area	Amount	RF	Rep Area 1	Rep Area 2	Rep Area 3	Rep Area 4	Rep Area 5	StdDev	%RSD
1	8599	0.00515	5.989e-007	8599					0	
2	48885	0.0258	5.278e-007	48885					0	
3	187526	0.103	5.493e-007	187526					0	0
4	873025	0.515	5.899e-007	873025					0	0

Average RF: 5.66463e-007
RF StdDev: 3.36468e-008
RF %RSD: 5.93981

RF Definition: Amount / Area
Weighting Method: None
Fit Through Zero: Yes

Linear Fit: Amount = 5.879e-007 x Area + 0.000e+000
R^2 = 0.9996



HYDRO GEO CHEM, INC.

LCS Results
Project #: L1265
Fugro/Burbank

Date Analyzed:	12-20-95
Time Analyzed:	07:21
Labquest File #:	L1265.028
Standard Used:	CAL9517
Volume used:	1000ul

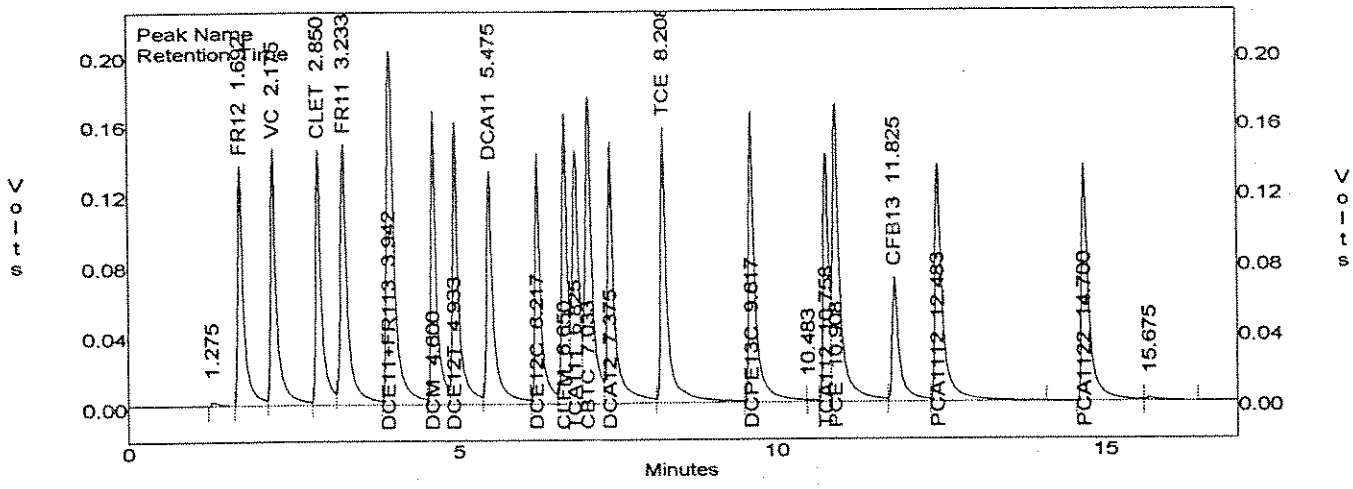
Compound Name	Detector	Retention Time	Mass Injected	Area	Rf	Rf (IC)	RPD	Control Limits (%)	Comments
Dichlorodifluoromethane	ELCD	1.69	0.113	829503	1.4E-07	1.4E-07	3	+/- 25	
Vinyl Chloride	ELCD	2.17	0.116	920795	1.3E-07	1.3E-07	3	+/- 25	
Chloroethane	ELCD	2.85	0.12	865685	1.4E-07	1.5E-07	8	+/- 25	
Trichlorofluoromethane	ELCD	3.23	0.104	1115714	9.3E-08	8.3E-08	-12	+/- 25	
Dichloromethane	ELCD	4.6	0.0985	986257	1E-07	1E-07	0	+/- 15	
trans-1,2-Dichloroethene	ELCD	3.94	0.099	1049335	9.4E-08	9.4E-08	-0	+/- 15	
1,1-Dichloroethane	ELCD	4.93	0.0996	997149	1E-07	9.4E-08	-6	+/- 15	
cis-1,2-Dichloroethene	ELCD	5.48	0.1	903010	1.1E-07	1E-07	-11	+/- 15	
Chloroform	ELCD	6.22	0.0995	935110	1.1E-07	8.8E-08	-21	+/- 15	See FID data
Chloroform	FID	6.65	0.0995	11323	8.8E-06	8.2E-06	-7	+/- 15	
1,1,1-Trichloroethane	ELCD	6.82	0.0985	1035986	9.5E-08	8.6E-08	-11	+/- 15	
Carbon Tetrachloride	ELCD	7.03	0.102	1367082	7.5E-08	7.1E-08	-5	+/- 15	
1,2-Dichloroethane	ELCD	7.37	0.1	1132822	8.8E-08	8.6E-08	-3	+/- 15	
Trichloroethene	ELCD	8.21	0.0994	1198145	8.3E-08	8.2E-08	-1	+/- 15	
1,1,2-Trichloroethane	FID	11.09	0.1	28167	3.6E-06	3.3E-06	-7	+/- 15	
Tetrachloroethene	ELCD	10.91	0.1	1403037	7.1E-08	6.6E-08	-8	+/- 15	
1112 tetrachloroethane	ELCD	12.48	0.0994	1089027	9.1E-08	8.2E-08	-11	+/- 15	
1122 tetrachloroethane	ELCD	14.7	0.102	1017055	1E-07	9E-08	-11	+/- 15	
1,1-Dichloroethene + F113	ELCD	3.94	0.2034	1674752	1.2E-07	1.1E-07	-10	+/- 15	
Benzene	PID	7.28	0.104	635805	1.6E-07	1.6E-07	-2	+/- 15	
Toluene	FID	10.04	0.104	145225	7.2E-07	6.6E-07	-9	+/- 15	
Ethyl Benzene	PID	12.49	0.102	510652	2E-07	1.8E-07	-11	+/- 15	
m/p-Xylene	PID	12.7	0.207	1300519	1.6E-07	1.5E-07	-6	+/- 15	
o-Xylene	FID	14.82	0.102	165940	6.1E-07	5.7E-07	-9	+/- 15	
1,1,2-Trichlorotrifluoroethane	FID	5.41	0.0996	15374	6.5E-06	5.9E-06	-10	+/- 25	

Preliminary Data

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.028
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 1000UL CAL9517 (LCS
Acquired : Dec 20, 1995 07:21:07
Printed : Dec 20, 1995 10:07:54
User : PAS

Reprocessed against new calibration curve

C:\LABQUEST\CHROM\L1265.028 -- Channel A



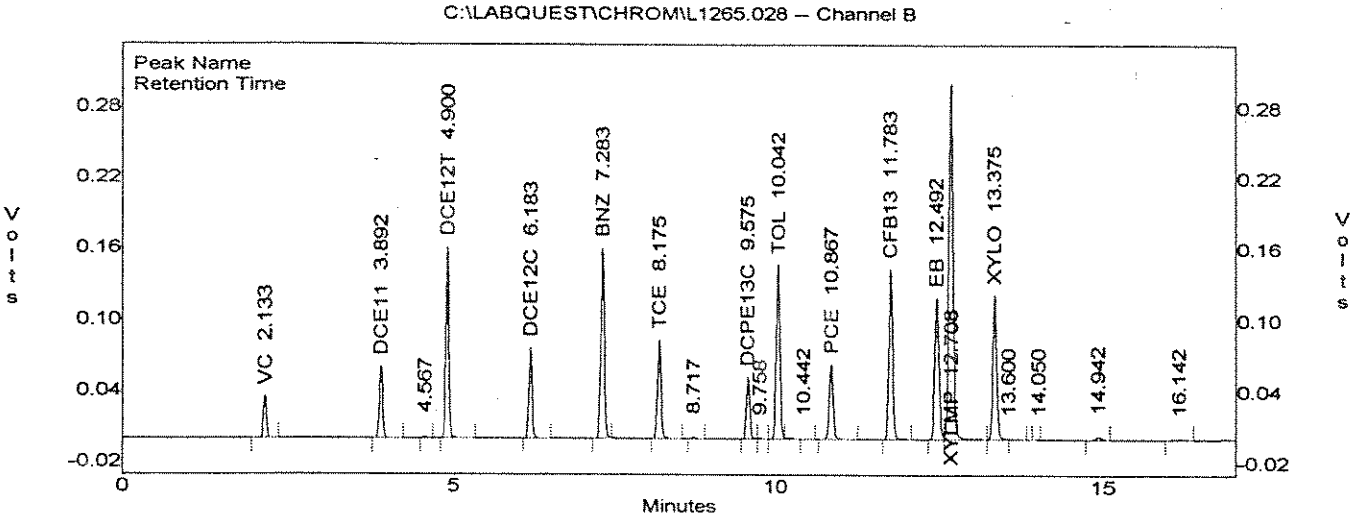
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.275	20404	0.000	0
2	FR12	1.692	829503	0.116	0
3	VC	2.175	920795	0.133	0
4	CLET	2.850	865685	0.136	0
5	FR11	3.233	1115714	0.102	0
6	DCE11+FR113	3.942	1674752	0.231	0
7	DCM	4.600	986257	0.106	0
8	DCE12T	4.933	1049335	0.110	0
9	DCA11	5.475	997149	0.097	0
10	DCE12C	6.217	903010	0.100	0
11	CLFM	6.650	~~927290~~ ~~935110~~	0.080 935110 ps	0
12	TCA111	6.825	1035986	0.099	0
13	CBTC	7.033	1367082	0.112	0
14	DCA12	7.375	1132822	0.111	0
15	TCE	8.208	1198145	0.113	0
16	DCPE13C	9.617	1158926	0.979	0
17		10.483	11909	0.000	0
18	TCA112	10.758	794478	PS 0.043 ~~0.86~~	~~0.86~~ see FID for 112tcc
19	PCE	10.908	~~1403037~~ ~~1462900~~ ps		0
20	CFB13	11.825	539735	0.945	0
21	PCA1112	12.483	1089027	0.101	0
22	PCA1122	14.700	1017055	0.102	0
23		15.675	23575	0.000	0

Totals : 21061686 3.911

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

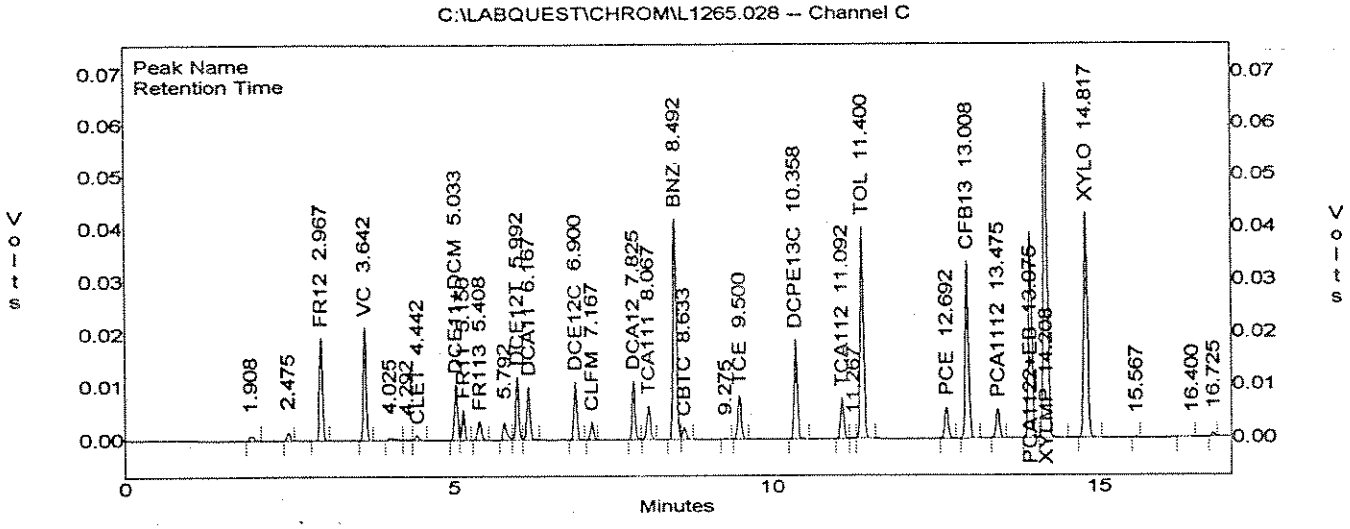
File : C:\LABQUEST\CHROM\L1265.028
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 1000UL CAL9517 (LCS
Acquired : Dec 20, 1995 07:21:07
Printed : Dec 20, 1995 10:07:59
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1	VC	2.133	121092	0.123	0
2	DCE11	3.892	220883	0.077	0
3		4.567	4457	0.000	0
4	DCE12T	4.900	524657	0.088	0
5	DCE12C	6.183	274526	0.083	0
6	BNZ	7.283	635805	0.096	0
7	TCE	8.175	326906	0.087	0
8		8.717	5113	0.000	0
9	DCPE13C	9.575	196347	0.994	0
10		9.758	1619	0.000	0
11	TOL	10.042	597102	0.108	0
12		10.442	966	0.000	0
13	PCE	10.867	266385	0.087	0
14	CFB13	11.783	580141	0.982	0
15	EB	12.492	510652	0.091	0
16	XYLMP	12.708	1300519	0.223	0
17	XYLO	13.375	521520	0.091	0
18		13.600	2305	0.000	0
19		14.050	3486	0.000	0
20		14.942	14651	0.000	0
21		16.142	6370	0.000	0
Totals :			6115510	3.128	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.028
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 1000UL CAL9517 (LCS
Acquired : Dec 20, 1995 07:21:07
Printed : Dec 20, 1995 10:08:01
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.908	4434	0.000	0
2		2.475	5388	0.000	0
3	FR12	2.967	66854	0.129	0
4	VC	3.642	68385	0.135	0
5		4.025	3600	0.000	0
6		4.292	913	0.000	0
7	CLET	4.442	3490	0.086	0
8	DCE11+DCM	5.033	34838	0.172	0
9	FR11	5.150	17243	0.086	0
10	FR113	5.408	15374	0.083	0
11		5.792	13603	0.000	0
12	DCE12T	5.992	37239	0.093	0
13	DCA11	6.167	35664	0.088	0
14	DCE12C	6.900	36192	0.089	0
15	CLFM	7.167	11323	0.088	0
16	DCA12	7.825	37203	0.093	0
17	TCA111	8.067	26095	0.086	0
18	BNZ	8.492	146601	0.097	0
19	CBTC	8.633	9115	0.090	0
20		9.275	530	0.000	0
21	TCE	9.500	29552	0.099	0
22	DCPE13C	10.358	65667	0.996	0
23	TCA112	11.092	28167	0.095	0
24		11.267	576	0.000	0
25	TOL	11.400	145225	0.096	0
26	PCE	12.692	22214	0.093	0
27	CFB13	13.008	120474	0.997	0
28	PCA1112	13.475	21585	0.094	0
29	PCA1122+EB	13.975	142400	0.190	0
30	XYLMP	14.208	296320	0.200	0
31	XYLO	14.817	165940	0.098	0
32		15.567	529	0.000	0
33		16.400	559	0.000	0

Continued...

.ile : C:\LABQUEST\CHROM\L1265.028
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 1000UL CAL9517 (LCS
Acquired : Dec 20, 1995 07:21:07
Printed : Dec 20, 1995 10:08:03
User : PAS

Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
34		16.725	2351	0.000	0
Totals :			1615657	4.375	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: FB20Dec95

Time Sampled: 1035

Date Sampled: 12-20-95

Probe Depth (ft): —

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: inside lab

Air Temp (F): 72

Ground Surface: —

Wind dir/speed: —

Sample Parameters

Probe Volume (ml): 2500

Purge Volume (liters): 7.5

Purge Time: 1 min

Notes:

Max. Purge Vacuum (in. Hg): —

Equilibrium Time: 1 sec

Sample Volume (ml): 10

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-20-95 Time: 1035

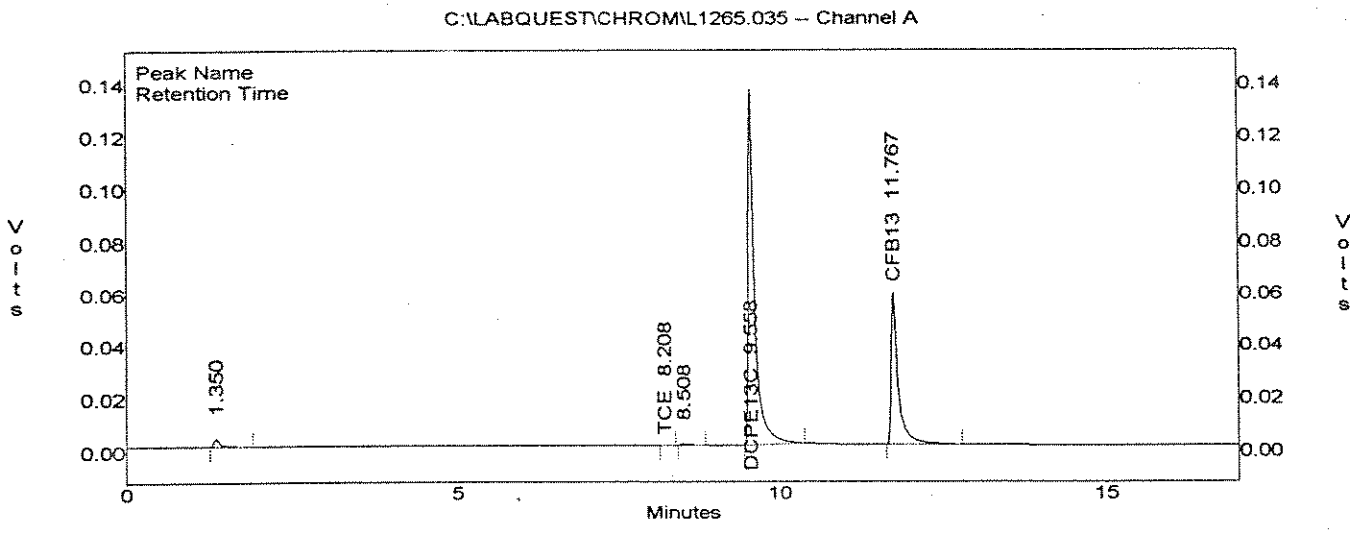
Volume Analyzed (ml): 1.0

Time Injected: 1036 Loop #: man

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 80 76 % PID: 96 95 % FID: 99 99 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.035
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : FB20DEC95
Acquired : Dec 20, 1995 10:36:35
Printed : Dec 20, 1995 10:53:50
User : PAS

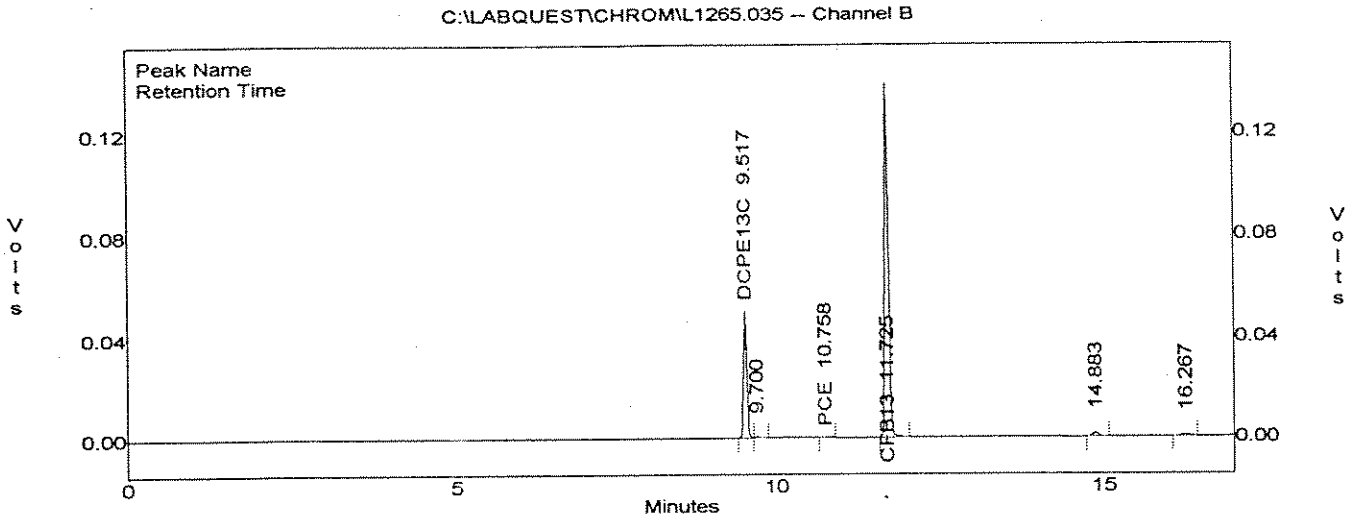


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	22475	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.208	552	0.052	0
3		8.508	4417	0.000	0
4	DCPE13C	9.558	945952	799.489	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
5	CFB13	11.767	432830	758.104	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1406227	1557.646	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

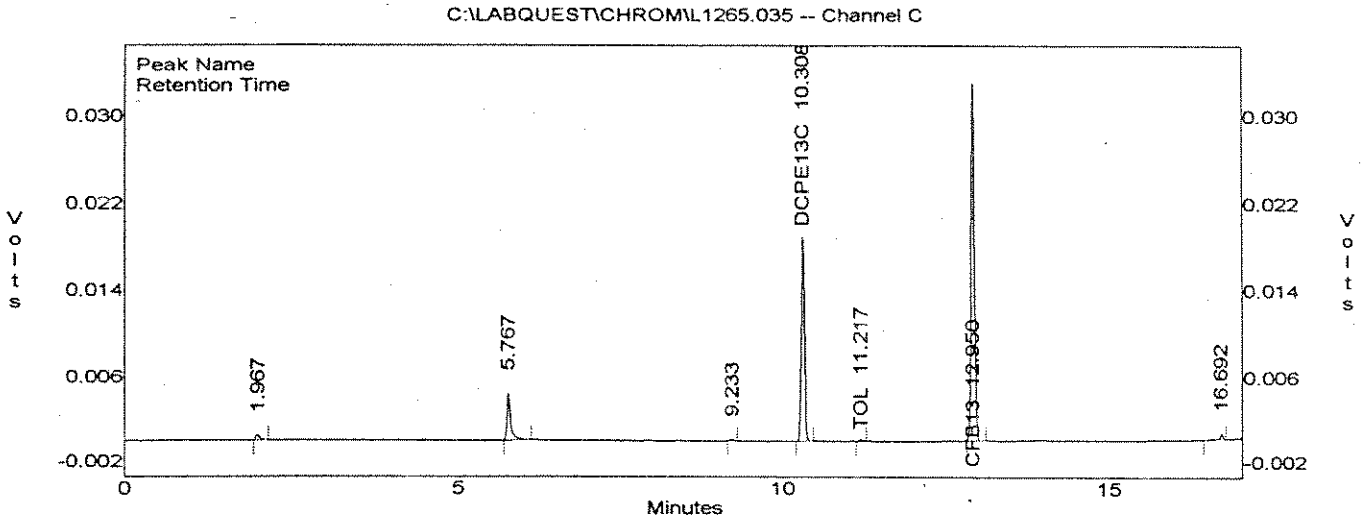
File : C:\LABQUEST\CHROM\L1265.035
Method : C:\LABQUEST\METHODS\L1265_2.MET
SampleID : FB20DEC95
Acquired : Dec 20, 1995 10:36:35
Printed : Dec 20, 1995 10:53:52
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
--	DCE11	3.890	0	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
1	DCPE13C	9.517	189430	958.608	0
2		9.700	1704	0.000	0
--	TOL	10.050	0	0.000	0
3	PCE	10.758	891	0.290	0
4	CFB13	11.725	563675	954.423	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
5		14.883	9996	0.000	0
6		16.267	5295	0.000	0
Totals :			770993	1913.321	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.035
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : FB20DEC95
Acquired : Dec 20, 1995 10:36:35
Printed : Dec 20, 1995 10:53:54
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.967	2149	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.767	18226	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.233	501	0.000	0
--	TCE	9.520	0	0.000	0
4	DCPE13C	10.308	65571	994.894	0
--	TCA112	11.110	0	0.000	0
5	TOL	11.217	570	0.377	0
--	PCE	12.710	0	0.000	0
6	CFB13	12.950	119182	986.261	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
7		16.692	1890	0.000	0

Totals :

		208091	1981.532

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 6S

Sample I.D.: SV-38-5A

Probe Depth (ft): 5

Time Sampled: 1111

Sampled by: BV

Date Sampled: 12-20-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 75

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80ml

Max. Purge Vacuum (in. Hg): 18

Purge Volume (liters): 80ml

Equilibrium Time: 1sec

Purge Time: 1sec

Sample Volume (ml): 20

Notes: Purge test

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

Date: 12-20-95 Time: 1117

Time Injected: 1117 Loop #manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1	<1	Tetrachloroethene	2.10	1.75
Vinyl Chloride	<1	<1	1,1,1,2 PCA	<1	<1
Chloroethane	<1	<1	1,1,2,2 PCA	<1	<1
Freon 11	<1	<1	1,1-Dichloroethene	<1	<1
Dichloromethane	<1	<1	Benzene	<1	<1
trans-1,2-Dichloroethene	<1	<1	Toluene	<1	<1
1,1-Dichloroethane	<1	<1	Ethyl Benzene	<1	<1
cis-1,2-Dichloroethene	<1	<1	m/p-xylene	<1	<1
Chloroform	<1	<1	o-Xylene	<1	<1
1,1,1-trichloroethane	<1	<1			
Carbon Tetrachloride	<1	<1			
1,2-Dichloroethane	<1	<1	Freon 113	<1	<1
Trichloroethene	1.56	2.09			
1,1,2-Trichloroethane	<1	<1			

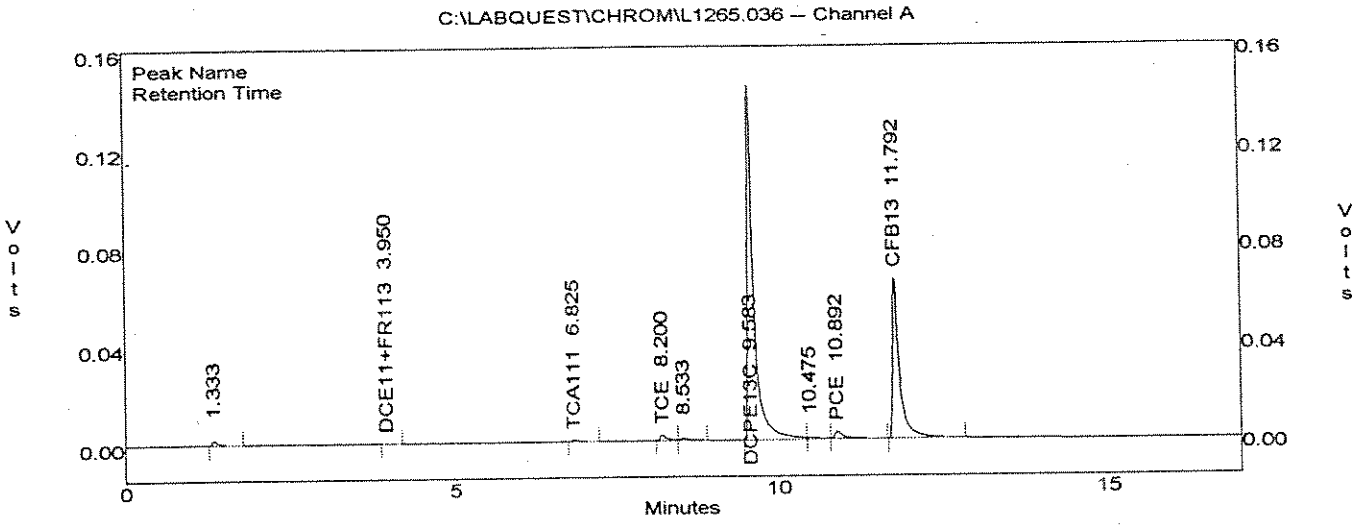
Surrogate Recovery ELCD: 86 83 % PID: 96 97 % FID: 100 100 %

91 89 95 96 100 100

Duplicate result not reported.
Note peak at 5.78 minutes on FID only both runs

BGPAA 0350

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.036
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-38-5A
Acquired : Dec 20, 1995 11:16:29
Printed : Dec 20, 1995 11:33:50
User : PAS

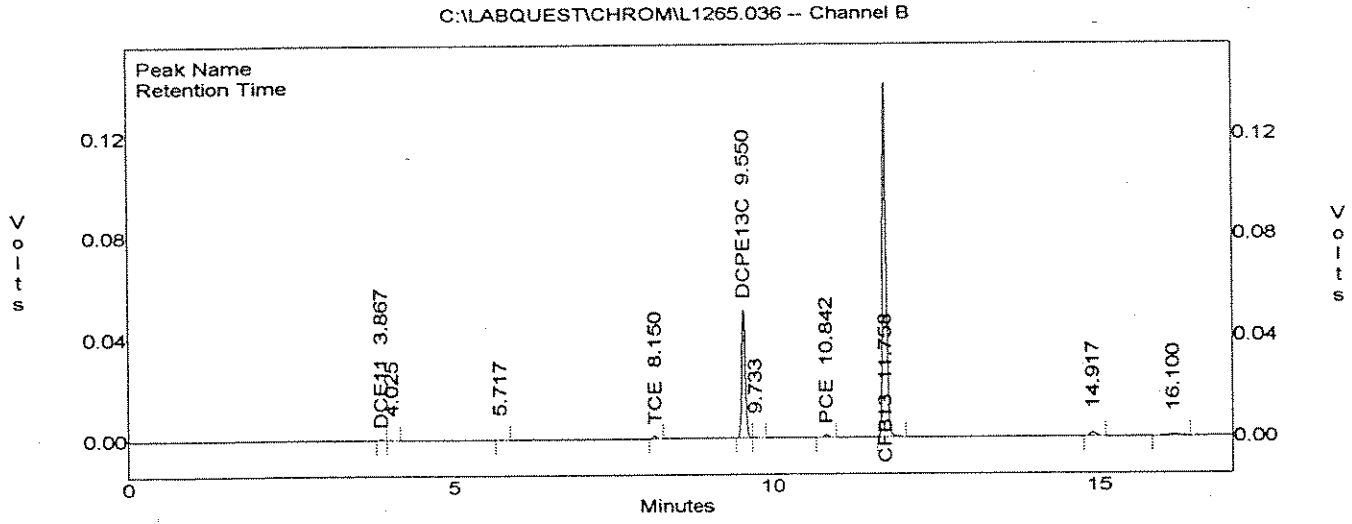


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.333	12393	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
2	DCE11+FR113	3.950	1324	0.183	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
3	TCA111	6.825	5564	0.533	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
4	TCE	8.200	16485	1.560	0
5		8.533	7337	0.000	0
6	DCPE13C	9.583	1014350	857.297	0
7		10.475	11599	0.000	0
--	TCA112	10.760	0	0.000	0
8	PCE	10.892	31880	2.096	0
9	CFB13	11.792	473594	829.503	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1574530	1691.173	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

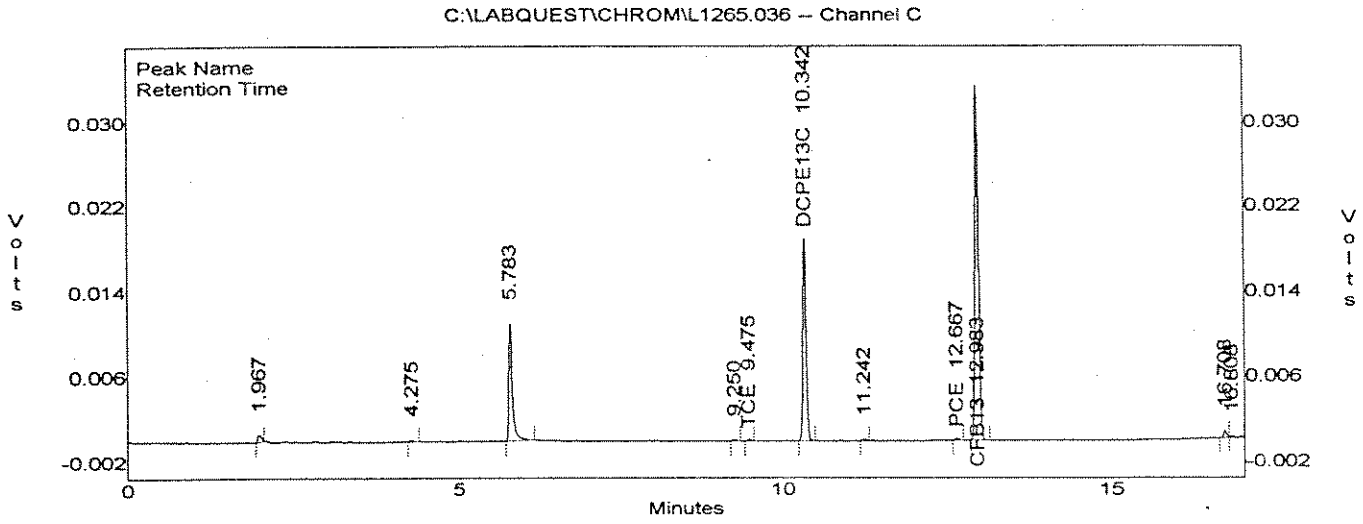
File : C:\LABQUEST\CHROM\L1265.036
Method : C:\LABQUEST\METHODS\L1265_2.MET
SampleID : SV-38-5A
Acquired : Dec 20, 1995 11:16:29
Printed : Dec 20, 1995 11:33:53
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.867	1766	~~0.613~~ PS	0
2		4.025	838	0.000	0
--	DCE12T	4.910	0	0.000	0
3		5.717	740	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
4	TCE	8.150	5160	1.371 ✓	0
5	DCPE13C	9.550	189537	959.150	0
6		9.733	1634	0.000	0
--	TOL	10.050	0	0.000	0
7	PCE	10.842	5716	1.859 ✓	0
8	CFB13	11.758	570408	965.823	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
9		14.917	10478	0.000	0
10		16.100	8435	0.000	0
Totals :			794716	1928.816	

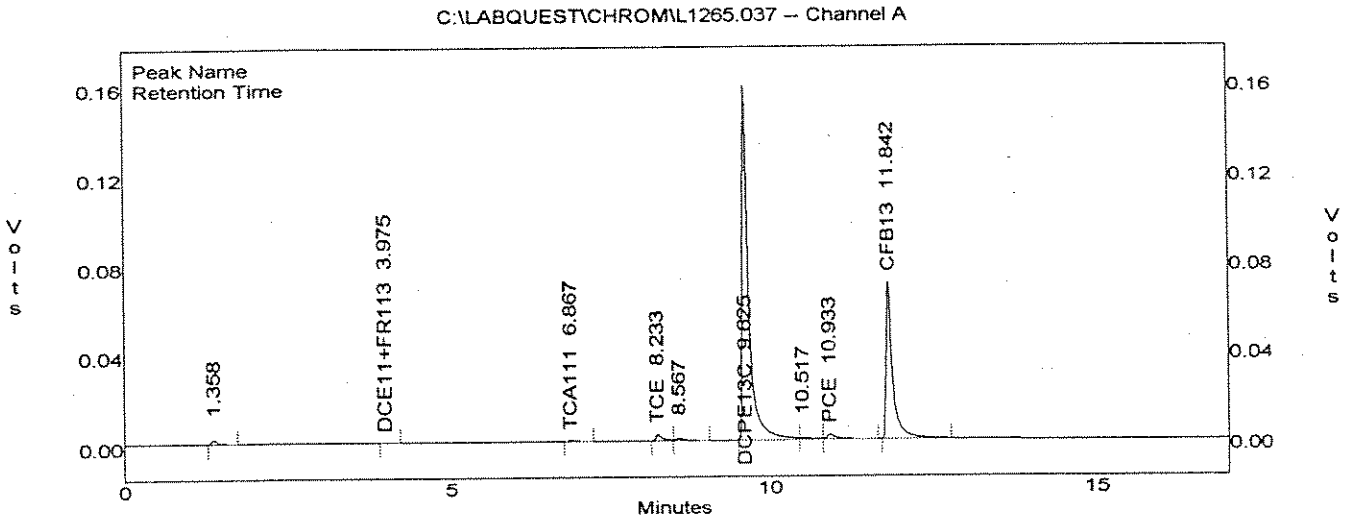
Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.036
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-38-5A
Acquired : Dec 20, 1995 11:16:29
Printed : Dec 20, 1995 11:33:55
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.967	2357	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
2		4.275	540	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
3		5.783	43338	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
4		9.250	585	0.000	0
5	TCE	9.475	636	2.134	0
6	DCPE13C	10.342	65983	1001.146	0
--	TCA112	11.110	0	0.000	0
7		11.242	581	0.000	0
--	TOL	11.430	0	0.000	0
8	PCE	12.667	577	2.427	0
9	CFB13	12.983	120492	997.101	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
10		16.708	2233	0.000	0
11		16.808	1537	0.000	0
Totals :			238864	2002.808	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.037
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-38-5A
Acquired : Dec 20, 1995 11:40:04
Printed : Dec 20, 1995 11:57:27
User : PAS



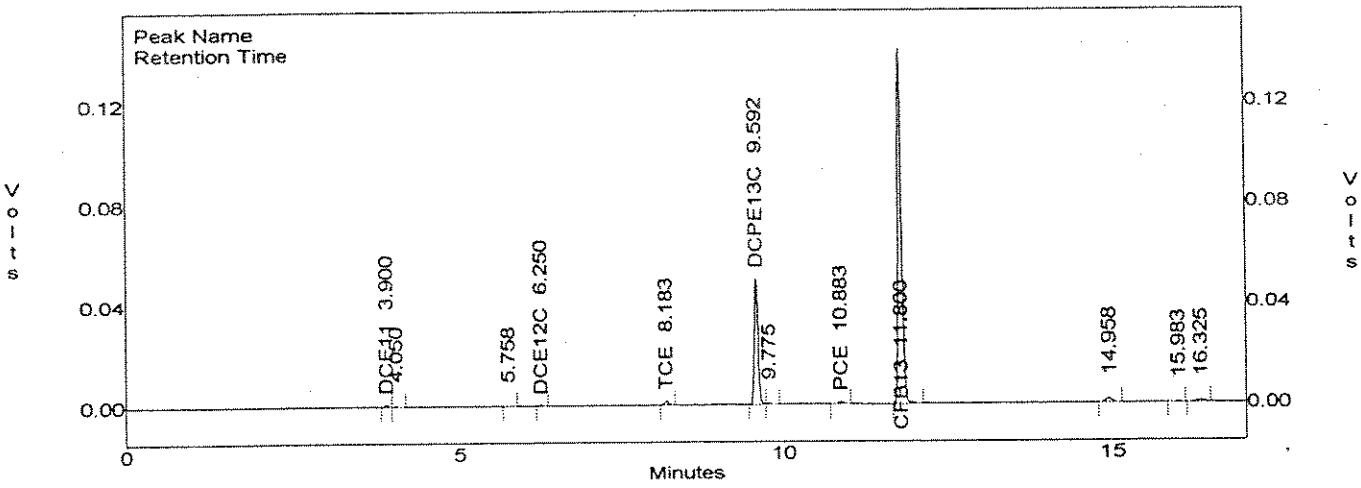
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.358	14130	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
2	DCE11+FR113	3.975	1395	0.193	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
3	TCA111	6.867	5835	0.559	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
4	TCE	8.233	22090	2.091	0
5		8.567	9177	0.000	0
6	DCPE13C	9.625	1078608	911.606	0
7		10.517	12682	0.000	0
--	TCA112	10.760	0	0.000	0
8	PCE	10.933	26658	1.753	0
9	CFB13	11.842	505809	885.928	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1676387	1802.129	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.037
Method : C:\LABQUEST\METHODS\L1265_2.MET
SampleID : SV-38-5A
Acquired : Dec 20, 1995 11:40:04
Printed : Dec 20, 1995 11:57:31
User : PAS

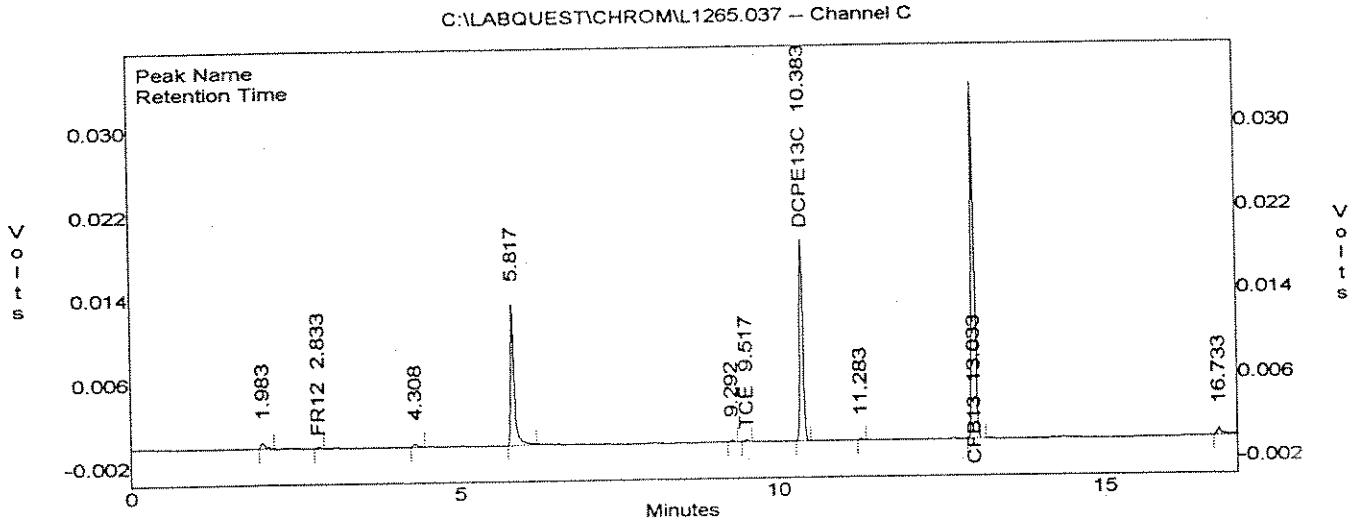
C:\LABQUEST\CHROM\L1265.037 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.900	2776	0.963	0
2		4.050	1216	0.000	0
--	DCE12T	4.910	0	0.000	0
3		5.758	664	0.000	0
4	DCE12C	6.250	828	0.250	0
--	BNZ	7.300	0	0.000	0
5	TCE	8.183	6309	1.676	0
6	DCPE13C	9.592	188632	954.570	0
7		9.775	1703	0.000	0
--	TOL	10.050	0	0.000	0
8	PCE	10.883	4524	1.471	0
9	CFB13	11.800	568331	962.307	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
10		14.958	10769	0.000	0
11		15.983	972	0.000	0
12		16.325	6299	0.000	0
Totals :			793027	1921.238	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.037
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-38-5A
Acquired : Dec 20, 1995 11:40:04
Printed : Dec 20, 1995 11:57:32
User : PAS



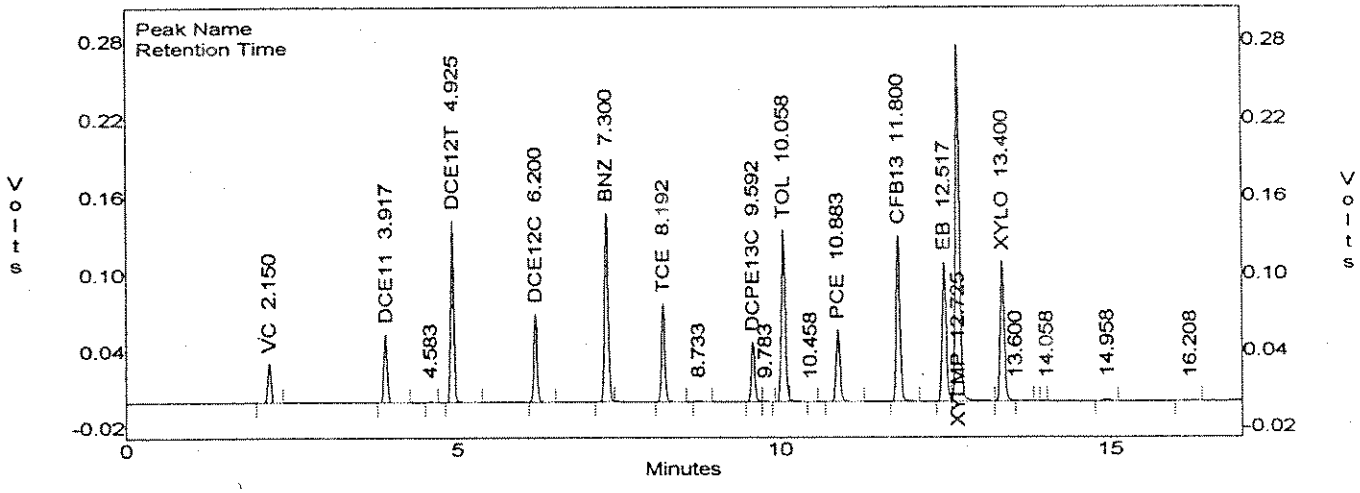
Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.983	2867	0.000	0
2	FR12	2.833	515	0.996	0
--	VC	3.640	0	0.000	0
3		4.308	1184	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
4		5.817	53183	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
5		9.292	551	0.000	0
6	TCE	9.517	742	2.490	0
7	DCPE13C	10.383	65909	1000.023	0
--	TCA112	11.110	0	0.000	0
8		11.283	536	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
9	CFB13	13.033	120663	998.510	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
10		16.733	3886	0.000	0
Totals :			250040	2002.019	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.053
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 1000UL CAL9517 (LCS
Acquired : Dec 21, 1995 07:48:50
Printed : Dec 21, 1995 08:06:18
User : PAS

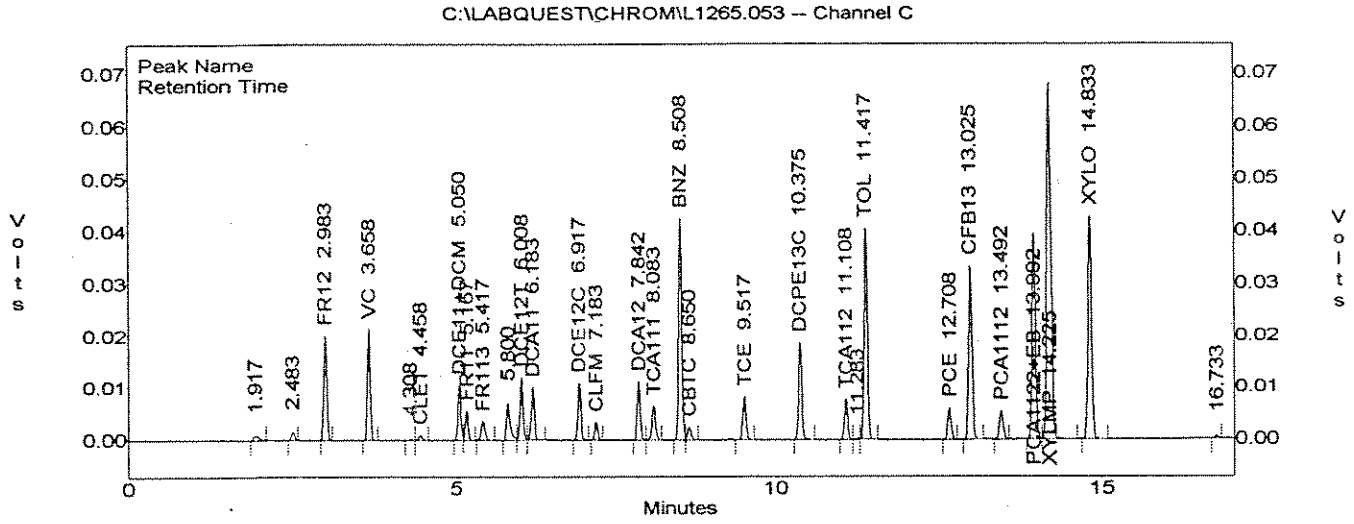
C:\LABQUEST\CHROM\L1265.053 – Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1	VC	2.150	108303	0.110	0
2	DCE11	3.917	200347	0.070	0
3		4.583	4026	0.000	0
4	DCE12T	4.925	472020	0.079	0
5	DCE12C	6.200	248616	0.075	0
6	BNZ	7.300	576109	0.087	0
7	TCE	8.192	299276	0.080	0
8		8.733	4620	0.000	0
9	DCPE13C	9.592	177692	0.899	0
10		9.783	1679	0.000	0
11	TOL	10.058	541926	0.098	0
12		10.458	671	0.000	0
13	PCE	10.883	241378	0.078	0
14	CFB13	11.800	526529	0.892	0
15	EB	12.517	464759	0.083	0
16	XYLMP	12.725	1181537	0.202	0
17	XYLO	13.400	471187	0.082	0
18		13.600	2798	0.000	0
19		14.058	4831	0.000	0
20		14.958	9450	0.000	0
21		16.208	4842	0.000	0
Totals :			5542604	2.834	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.053
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 1000UL CAL9517 (LCS
Acquired : Dec 21, 1995 07:48:50
Printed : Dec 21, 1995 08:06:20
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.917	4665	0.000	0
2		2.483	5515	0.000	0
3	FR12	2.983	67537	0.131	0
4	VC	3.658	69238	0.137	0
5		4.308	588	0.000	0
6	CLET	4.458	3435	0.085	0
7	DCE11+DCM	5.050	35340	0.174	0
8	FR11	5.167	17486	0.087	0
9	FR113	5.417	15676	0.085	0
10		5.800	27552	0.000	0
11	DCE12T	6.008	38203	0.096	0
12	DCA11	6.183	36596	0.090	0
13	DCE12C	6.917	36586	0.090	0
14	CLFM	7.183	11594	0.090	0
15	DCA12	7.842	37591	0.094	0
16	TCA111	8.083	26635	0.088	0
17	BNZ	8.508	148897	0.098	0
18	CBTC	8.650	9361	0.093	0
19	TCE	9.517	30161	0.101	0
20	DCPE13C	10.375	65968	1.001	0
21	TCA112	11.108	28573	0.097	0
22		11.283	521	0.000	0
23	TOL	11.417	147339	0.097	0
24	PCE	12.708	22477	0.095	0
25	CFB13	13.025	121242	1.003	0
26	PCA1112	13.492	21877	0.096	0
27	PCA1122+EB	13.992	144189	0.193	0
28	XYLMP	14.225	300254	0.203	0
29	XYLO	14.833	166542	0.098	0
30		16.733	1770	0.000	0
Totals :			1643420	4.420	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: FB21 Dec 95

Probe Depth (ft): —

Time Sampled: 0829

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: inside lab

Ground Surface: —

Air Temp (F): 62

Wind dir/speed: —

Sample Parameters

Probe Volume (ml): 2500

Max. Purge Vacuum (in. Hg): —

Purge Volume (liters): 7.5

Equilibrium Time: —

Purge Time:

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

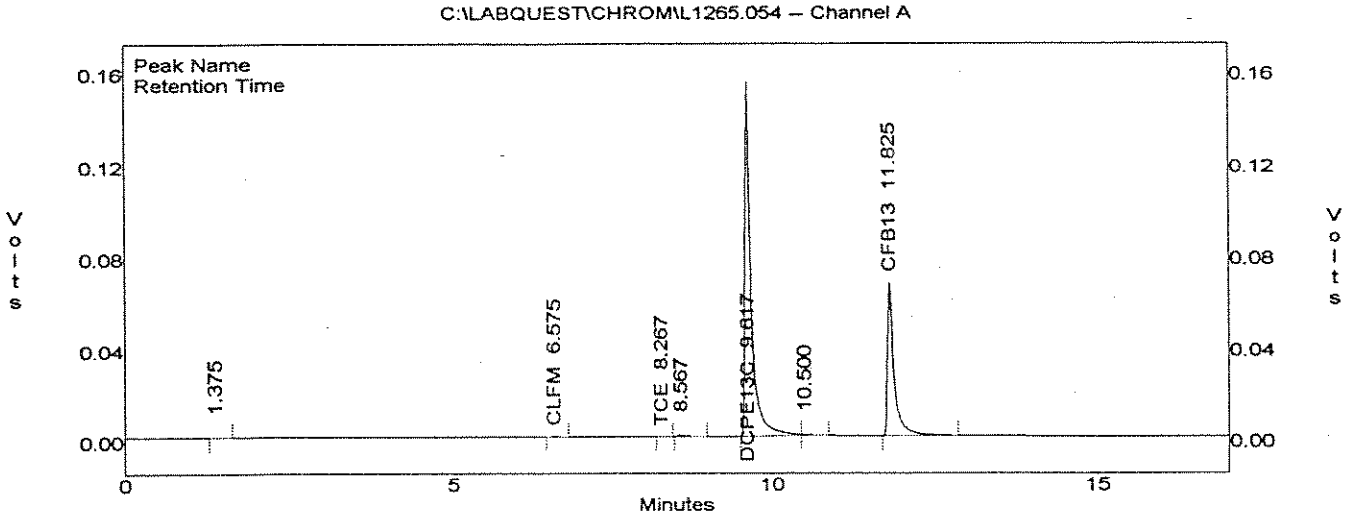
Date: 12-21-95 Time: 0830

Time Injected: 0832 Loop #: 9

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 91 87 % PID: 89 90 % FID: 100 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.054
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : FB21DEC95
Acquired : Dec 21, 1995 08:35:16
Printed : Dec 21, 1995 08:52:38
User : PAS



Channel A Results

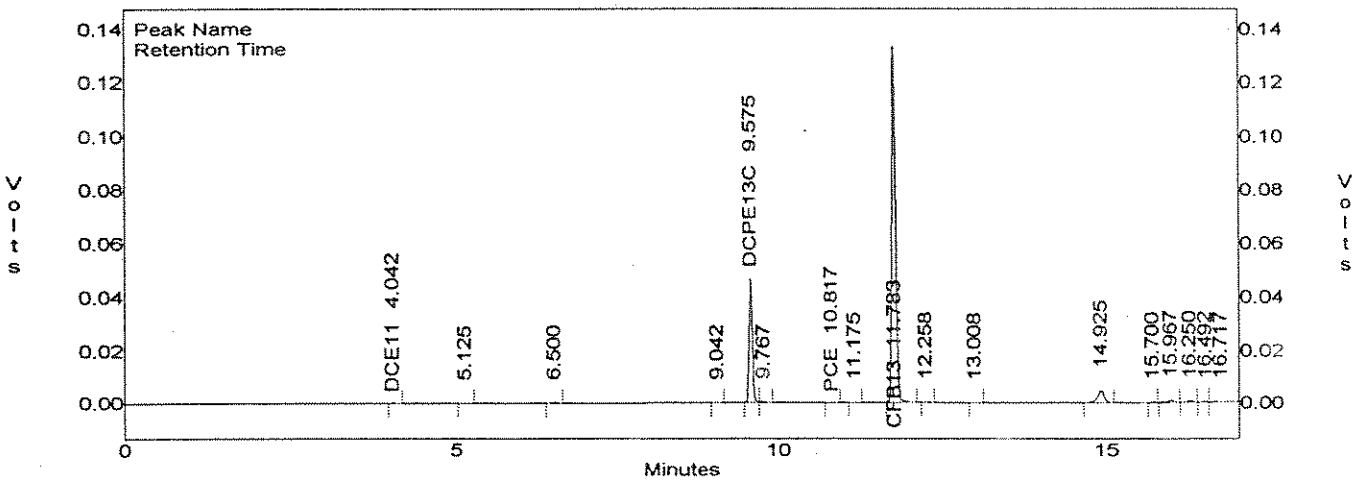
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.375	1131	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
2	CLFM	6.575	1872	0.161 <1	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.267	658	0.062	0
4		8.567	4945	0.000	0
5	DCPE13C	9.617	1075789	909.223	0
6		10.500	7236	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
7	CFB13	11.825	498647	873.383	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals : 1590280 1782.830

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.054
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : FB21DEC95
Acquired : Dec 21, 1995 08:35:16
Printed : Dec 21, 1995 08:52:41
User : PAS

C:\LABQUEST\CHROM\L1265.054 -- Channel B



Channel B Results

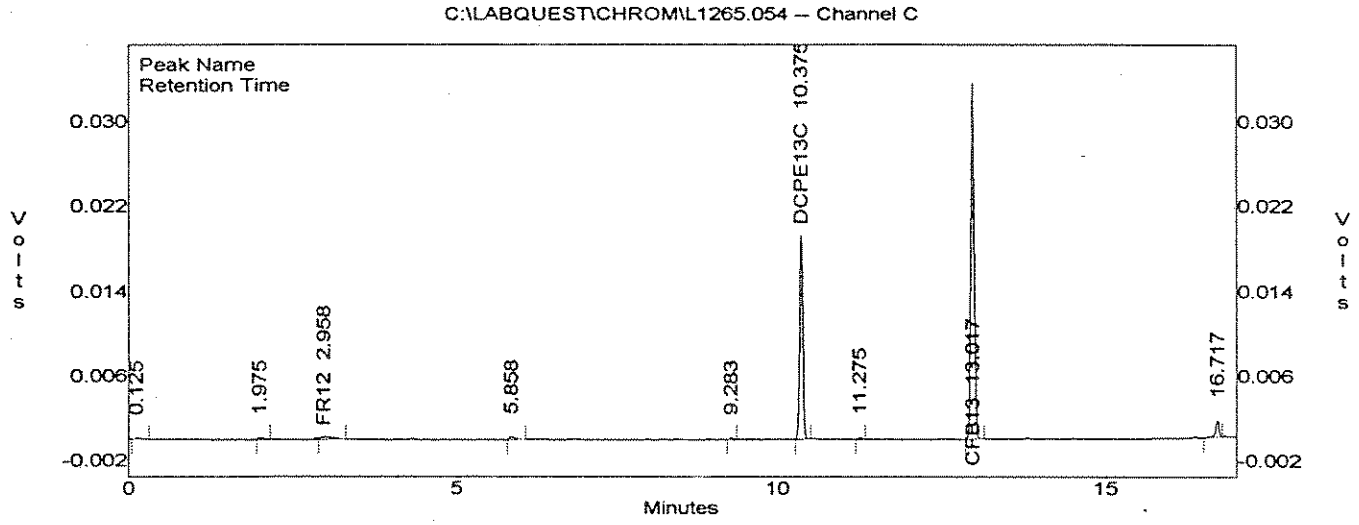
peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.042	1170	0.~~406~~ PS	0
--	DCE12T	4.910	0	0.000	0
2		5.125	652	0.000	0
--	DCE12C	6.190	0	0.000	0
3		6.500	1096	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
4		9.042	746	0.000	0
5	DCPE13C	9.575	176280	892.066	0
6		9.767	1617	0.000	0
--	TOL	10.050	0	0.000	0
7	PCE	10.817	946	~~0.308~~ PS	0
8		11.175	513	0.000	0
9	CFB13	11.783	533043	902.556	0
10		12.258	1276	0.000	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
11		13.008	515	0.000	0
--	XYLO	13.320	0	0.000	0
12		14.925	34127	0.000	0
13		15.700	751	0.000	0
14		15.967	4379	0.000	0
15		16.250	3375	0.000	0
16		16.492	1200	0.000	0
17		16.717	3647	0.000	0

Can't confirm

Totals :

	765338	1795.335

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.054
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : FB21DEC95
Acquired : Dec 21, 1995 08:35:16
Printed : Dec 21, 1995 08:52:43
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		0.125	736	0.000	poor peak shape
2		1.975	910	0.000	0
3	FR12	2.958	2970	~~5.743~~ Not on	0
--	VC	3.640	0	0.000 Hall	0
--	CLET	4.450	0	0.000 PS	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
4		5.858	1579	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
5		9.283	548	0.000	0
--	TCE	9.520	0	0.000	0
6	DCPE13C	10.375	65794	998.267	0
--	TCA112	11.110	0	0.000	0
7		11.275	603	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
8	CFB13	13.017	120461	996.842	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
9		16.717	6111	0.000	0

Totals :

	199714	2000.853

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1205

Sample I.D.: SV-34-5

Probe Depth (ft): 5

Time Sampled: 0855

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 65

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 13

Purge Volume (liters): 400 ml

Equilibrium Time: 1 sec

Purge Time: 2 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml):

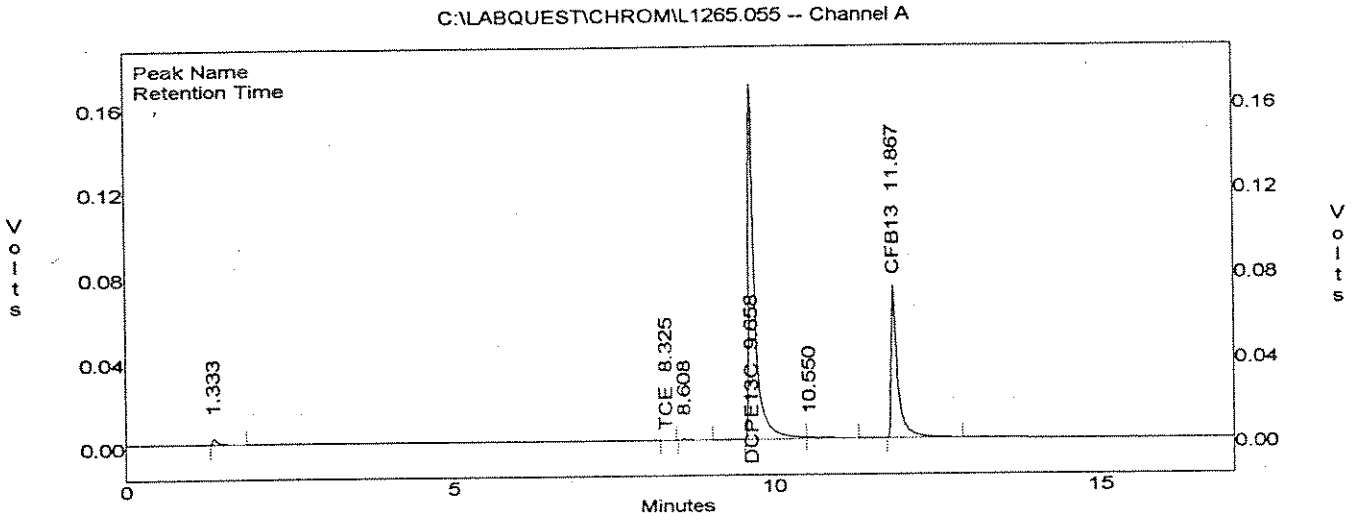
Date: 12-21-95 Time: 0900

Time Injected: Loop #:

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 95 90 % PID: 89 90 % FID: 101 101 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.055
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-34-5
Acquired : Dec 21, 1995 09:01:38
Printed : Dec 21, 1995 09:19:02
User : PAS

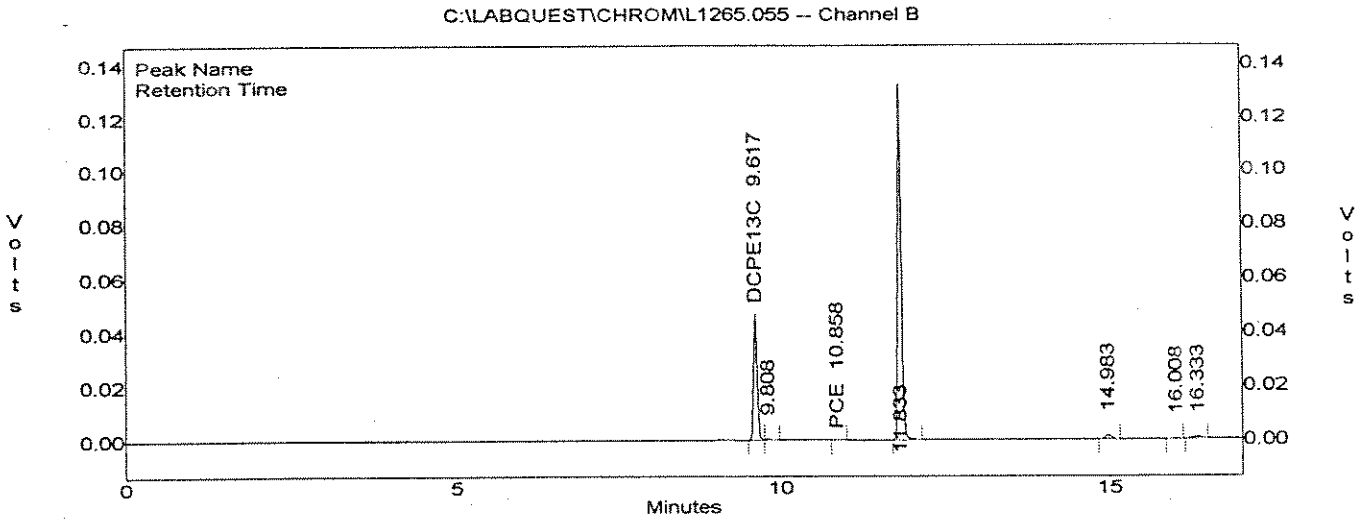


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.333	18037	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.325	651	0.062	0
3		8.608	5154	0.000	0
4	DCPE13C	9.658	1127554	952.974	0
5		10.550	15228	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
6	CFB13	11.867	515820	903.463	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1682447	1856.498	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

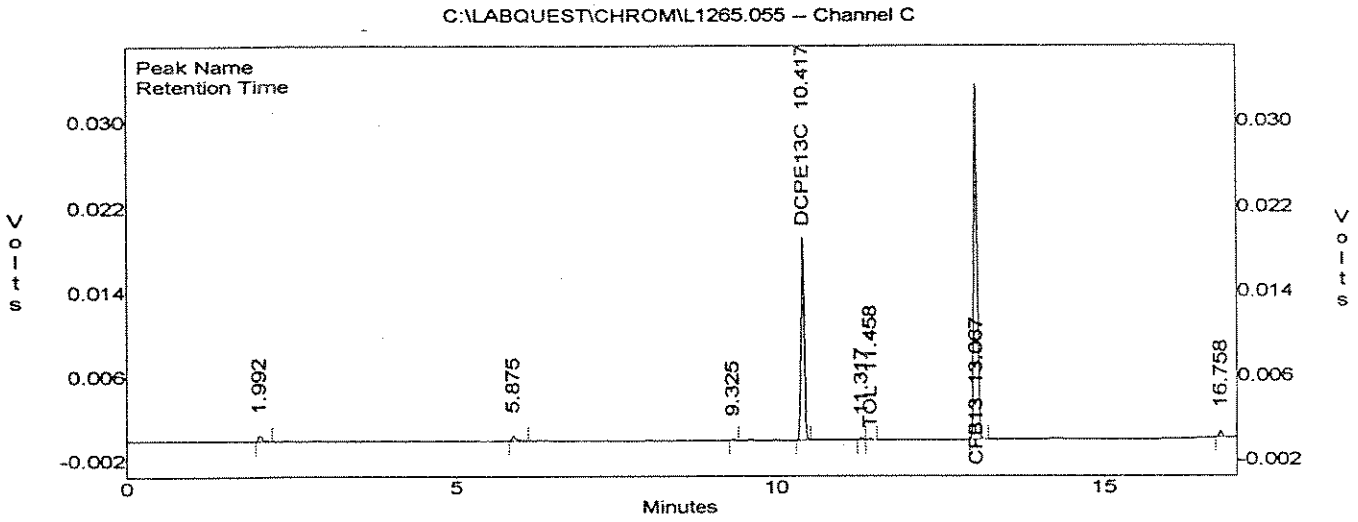
File : C:\LABQUEST\CHROM\L1265.055
Method : C:\LABQUEST\METHODS\L1265_2.MET
SampleID : SV-34-5
Acquired : Dec 21, 1995 09:01:38
Printed : Dec 21, 1995 09:19:06
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
--	DCE11	3.890	0	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
1	DCPE13C	9.617	175885	890.066	0
2		9.808	1613	0.000	0
--	TOL	10.050	0	0.000	0
3	PCE	10.858	824	0 ~~.260~~ Noton	0
--	CFB13	11.730	0	0.000 Hall	0
4		11.833	533231	~~0.000~~ 90% ~~0~~ 1.69e-6	
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
5		14.983	10023	0.000	0
6		16.008	826	0.000	0
7		16.333	6225	0.000	0
Totals :			728630	890.334	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.055
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-34-5
Acquired : Dec 21, 1995 09:01:38
Printed : Dec 21, 1995 09:19:08
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.992	2456	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.875	2698	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.325	516	0.000	0
--	TCE	9.520	0	0.000	0
4	DCPE13C	10.417	66429	1007.901	0
--	TCA112	11.110	0	0.000	0
5		11.317	842	0.000	0
6	TOL	11.458	504	0.334	0
--	PCE	12.710	0	0.000	0
7	CFB13	13.067	121751	1007.517	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
8		16.758	2811	0.000	0

Totals :

	198009	2015.752

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-33-5

Probe Depth (ft): 5

Time Sampled: 0911

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 65

Wind dir/speed: Calm.

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 14

Purge Volume (liters): 400 ml

Equilibrium Time: 2 sec

Purge Time: 2 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

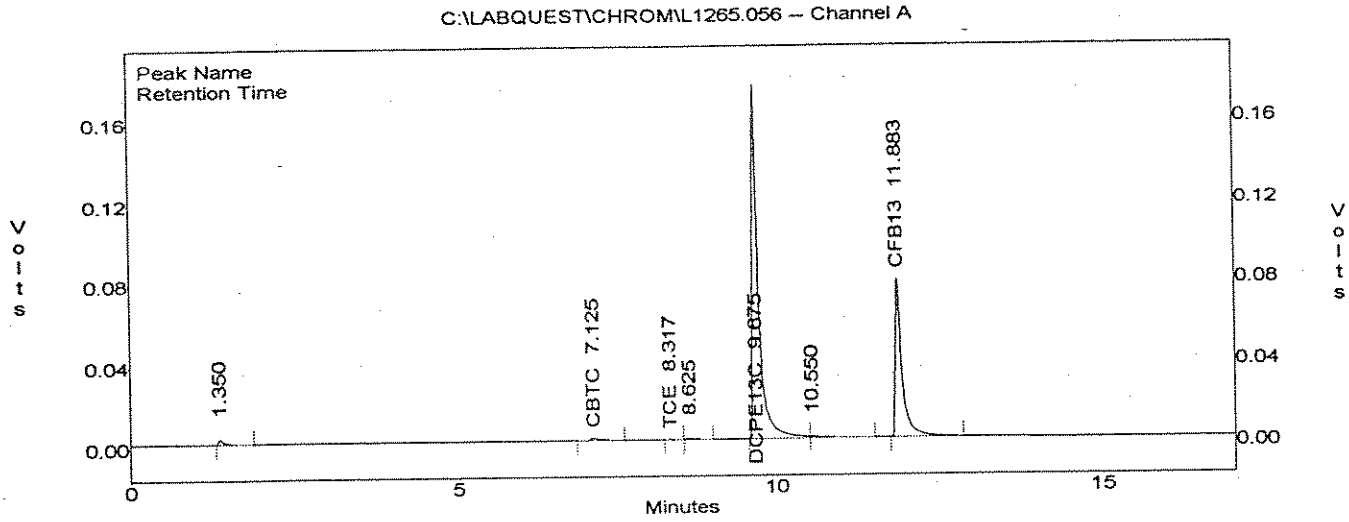
Date: 12-21-95 Time: 0917

Time Injected: 0925 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	~~85~~ 1.0 ✓				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 102 100 % PID: 89 86 % FID: 100 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.056
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-33-5
Acquired : Dec 21, 1995 09:25:20
Printed : Dec 21, 1995 09:42:41
User : PAS



Channel A Results

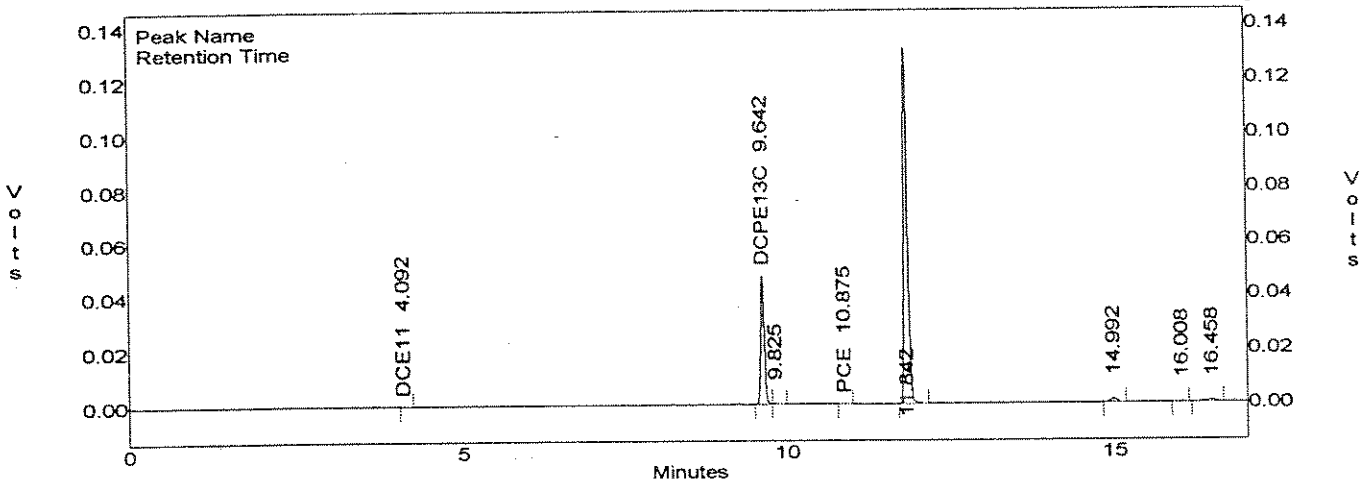
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	16722	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
2	CBTC	7.125	12310	1.006	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.317	1327	0.126	0
4		8.625	4969	0.000	0
5	DCPE13C	9.675	1201378	1015.367	0
6		10.550	18711	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
7	CFB13	11.883	570802	999.763	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals : 1826221 2016.262

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.056
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-33-5
Acquired : Dec 21, 1995 09:25:20
Printed : Dec 21, 1995 09:42:44
User : PAS

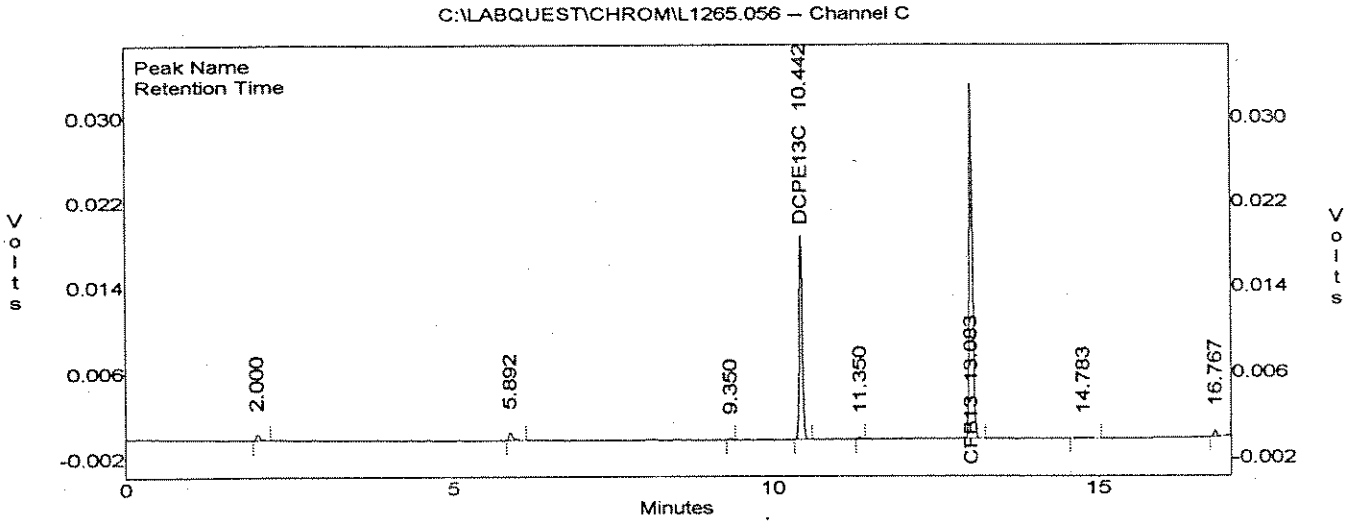
C:\LABQUEST\CHROM\L1265.056 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.092	509	0.177	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.642	175878	890.028	0
3		9.825	1584	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.875	862	0.280	0
--	CFB13	11.730	0	0.000	0
5		11.842	534455	0.000 86%	~~0~~ 1.6e-6
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.992	10142	0.000	0
7		16.008	836	0.000	0
8		16.458	7168	0.000	0
Totals :			731436	890.485	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.056
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-33-5
Acquired : Dec 21, 1995 09:25:20
Printed : Dec 21, 1995 09:42:46
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.000	2503	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.892	3466	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.350	528	0.000	0
--	TCE	9.520	0	0.000	0
4	DCPE13C	10.442	66073	1002.500	0
--	TCA112	11.110	0	0.000	0
5		11.350	569	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
6	CFB13	13.083	121349	1004.193	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
7		14.783	1227	0.000	0
--	XYLO	14.830	0	0.000	0
8		16.767	2664	0.000	0

Totals :

	198382	2006.693

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: SV-26-5

Probe Depth (ft): 5

Time Sampled: 0929

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 68

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 14

Purge Volume (liters): 400ml

Equilibrium Time: 2sec

Purge Time: 2 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1

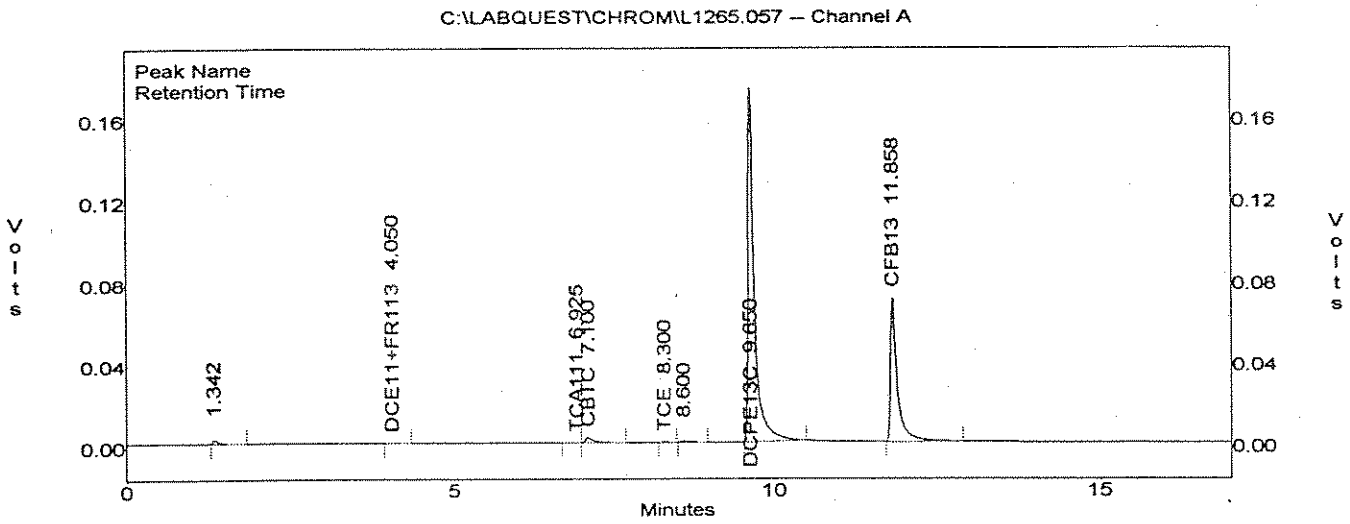
Date: 12-21-95 Time: 0935

Time Injected: 0947 Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	1.8 ✓				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 98 91 % PID: 88 90 % FID: 101 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.057
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-26-5
Acquired : Dec 21, 1995 09:48:50
Printed : Dec 21, 1995 10:06:08
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.342	12655	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
2	DCE11+FR113	4.050	2195	0.303	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
3	TCA111	6.925	1107	0.106	0
4	CBTC	7.100	22497	1.839	0
--	DCA12	7.390	0	0.000	0
5	TCE	8.300	1410	0.133	0
6		8.600	5498	0.000	0
7	DCPE13C	9.650	1163462	983.322	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
8	CFB13	11.858	521106	912.720	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

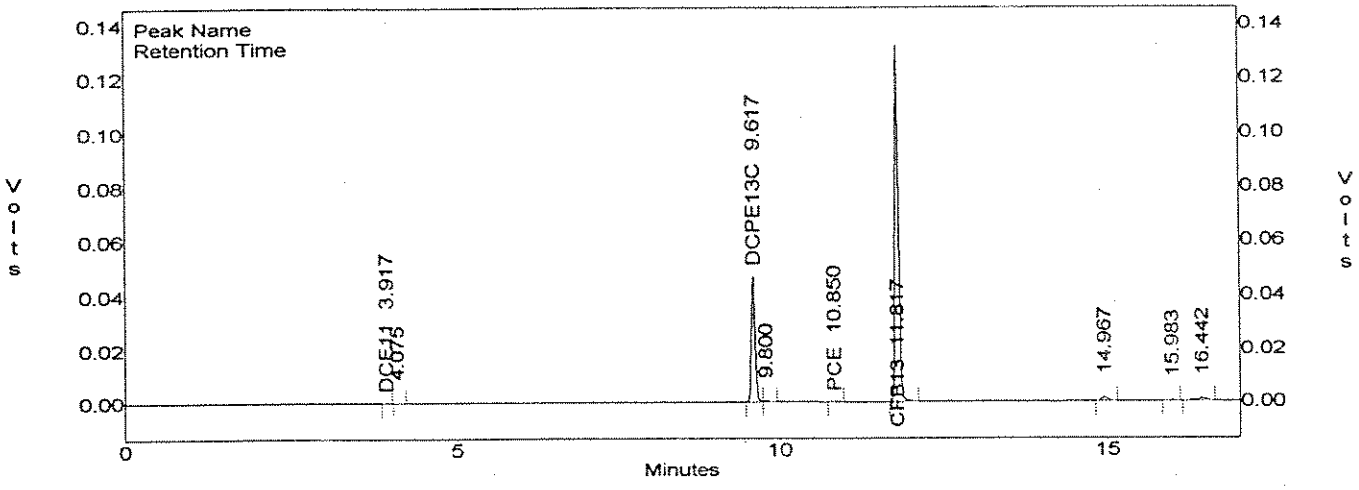
Totals :

	1729932	1898.424

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.057
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-26-5
Acquired : Dec 21, 1995 09:48:50
Printed : Dec 21, 1995 10:06:11
User : PAS

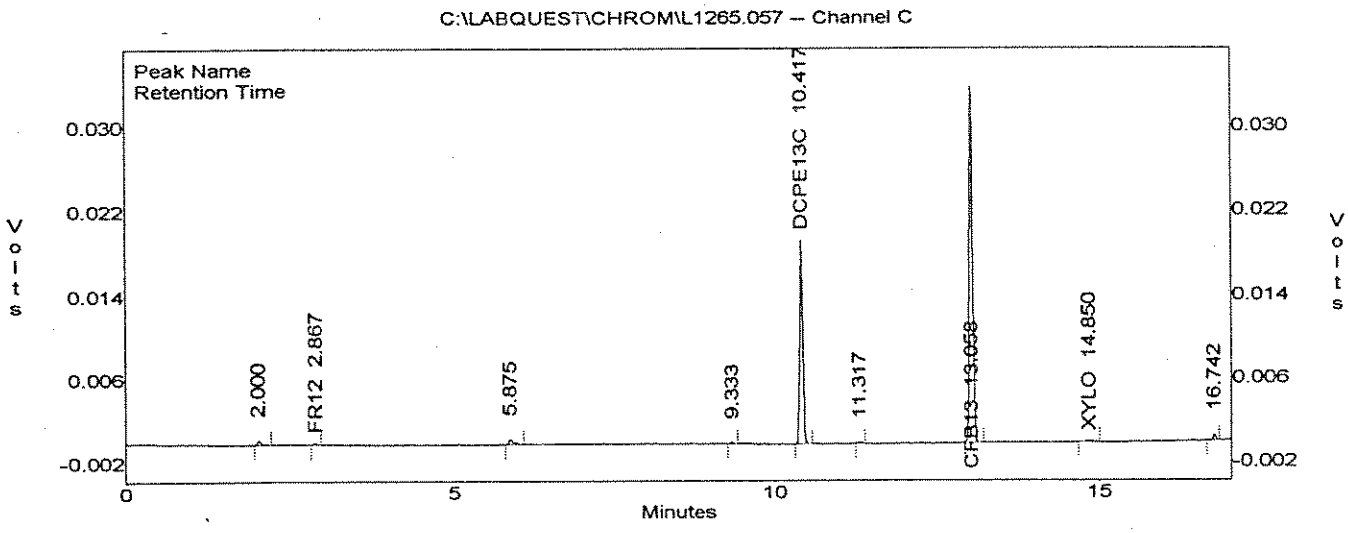
C:\LABQUEST\CHROM\L1265.057 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.917	711	0.247	0
2		4.075	675	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
3	DCPE13C	9.617	174610	883.611	0
4		9.800	1528	0.000	0
--	TOL	10.050	0	0.000	0
5	PCE	10.850	835	0.272	0
6	CFB13	11.817	528681	895.171	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
7		14.967	9355	0.000	0
8		15.983	964	0.000	0
9		16.442	7510	0.000	0
Totals :			724872	1779.300	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.057
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-26-5
Acquired : Dec 21, 1995 09:48:50
Printed : Dec 21, 1995 10:06:13
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.000	1996	0.000	0
2	FR12	2.867	584	~~1.131~~ PS	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
3		5.875	2401	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
4		9.333	573	0.000	0
--	TCE	9.520	0	0.000	0
5	DCPE13C	10.417	66282	1005.671	0
--	TCA112	11.110	0	0.000	0
6		11.317	549	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
7	CFB13	13.058	121242	1003.305	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
8	XYLO	14.850	743	0.437	0
9		16.742	1790	0.000	0
Totals :			196162	2010.544	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-20-5

Probe Depth (ft): 5

Time Sampled: 1040

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 68

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 15

Purge Volume (liters): 400 ml

Equilibrium Time: 2 sec

Purge Time: 2 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

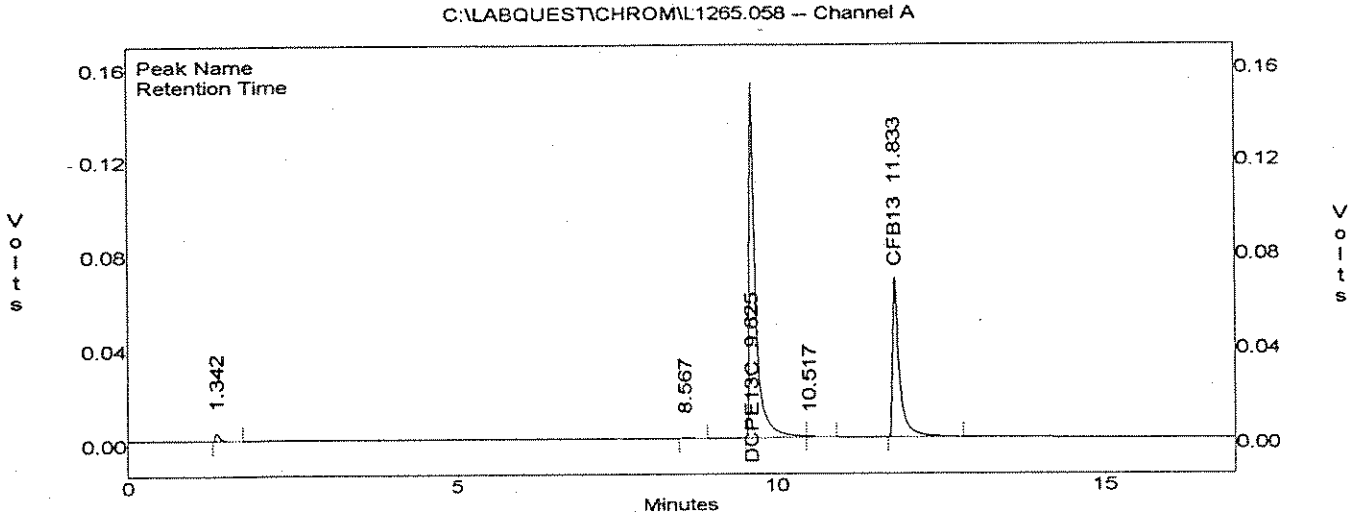
Date: 12-21-95 Time: 1045

Time Injected: 1045 Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 88 87 % PID: 87 88 % FID: 99 99 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.058
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-20-5
Acquired : Dec 21, 1995 10:43:04
Printed : Dec 21, 1995 11:00:24
User : PAS

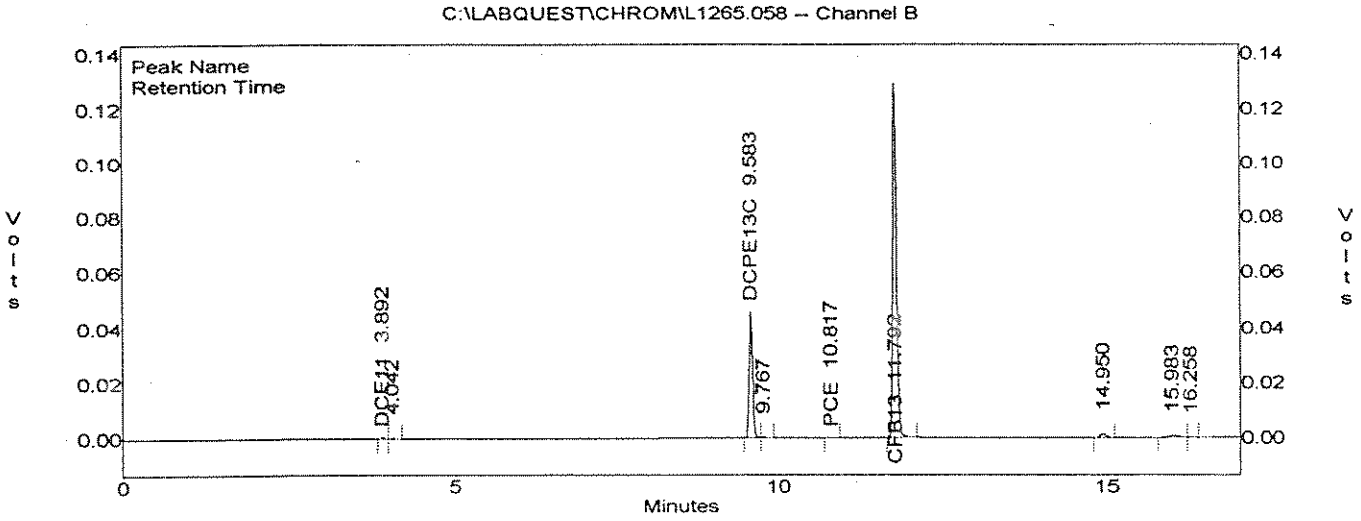


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.342	17085	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
--	TCE	8.220	0	0.000	0
2		8.567	4104	0.000	0
3	DCPE13C	9.625	1035961	875.562	0
4		10.517	6946	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
5	CFB13	11.833	496825	870.193	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1560924	1745.755	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.058
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-20-5
Acquired : Dec 21, 1995 10:43:04
Printed : Dec 21, 1995 11:00:27
User : PAS



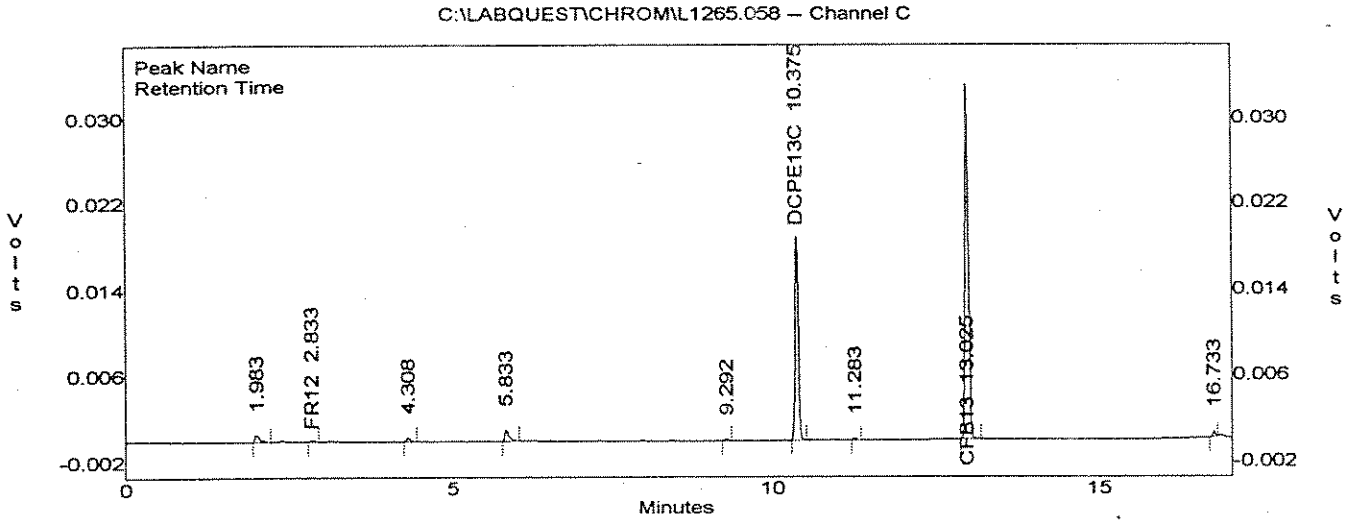
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	3.892	1595	~~0.554~~ PS	0
2		4.042	1222	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
3	DCPE13C	9.583	172055	870.682	0
4		9.767	1363	0.000	0
--	TOL	10.050	0	0.000	0
5	PCE	10.817	774	0.252	0
6	CFB13	11.792	520456	881.245	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
7		14.950	8904	0.000	0
8		15.983	7487	0.000	0
9		16.258	952	0.000	0

Totals :

	714811	1752.732

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.058
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-20-5
Acquired : Dec 21, 1995 10:43:04
Printed : Dec 21, 1995 11:00:29
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.983	3411	0.000	0
2	FR12	2.833	643	~~1.244~~ PS	0
--	VC	3.640	0	0.000	0
3		4.308	1400	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
4		5.833	4605	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
5		9.292	556	0.000	0
--	TCE	9.520	0	0.000	0
6	DCPE13C	10.375	65537	994.375	0
--	TCA112	11.110	0	0.000	0
7		11.283	577	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
8	CFB13	13.025	119757	991.013	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
9		16.733	1436	0.000	0
Totals :			197924	1986.632	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: SV-21-5

Probe Depth (ft): 5

Time Sampled: 1053

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 68

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 13

Purge Volume (liters): 400 ml

Equilibrium Time: 2sec

Purge Time: 2sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

Date: 12-21-95 Time: 1055

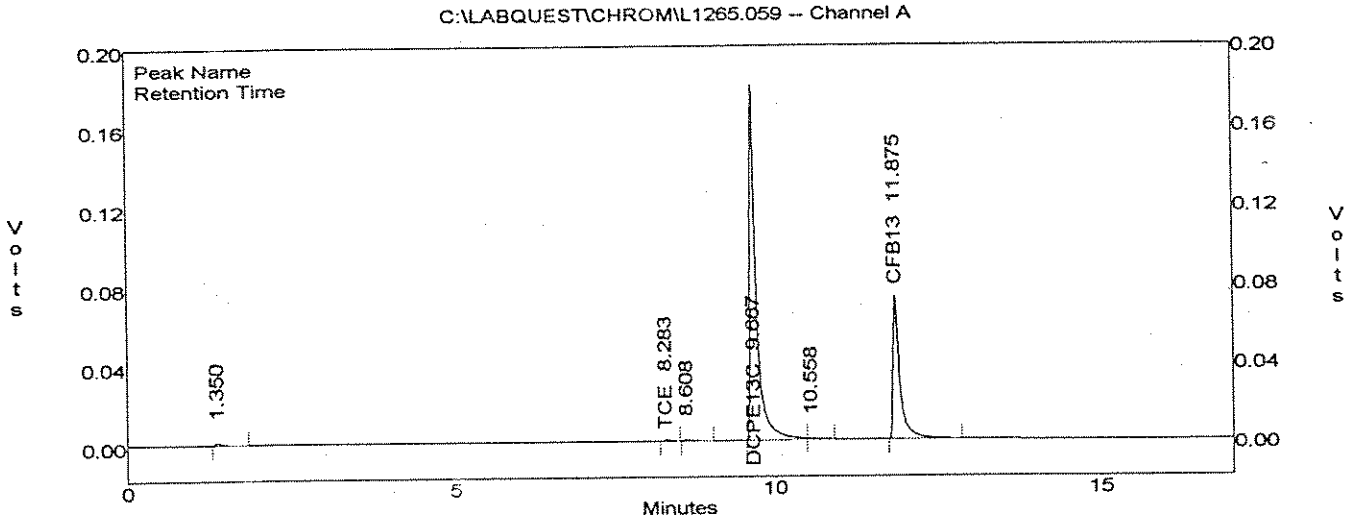
Time Injected: 1105

Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 104 93 % PID: 87 89 % FID: 101 101 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.059
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-21-5
Acquired : Dec 21, 1995 11:06:29
Printed : Dec 21, 1995 11:23:50
User : PAS

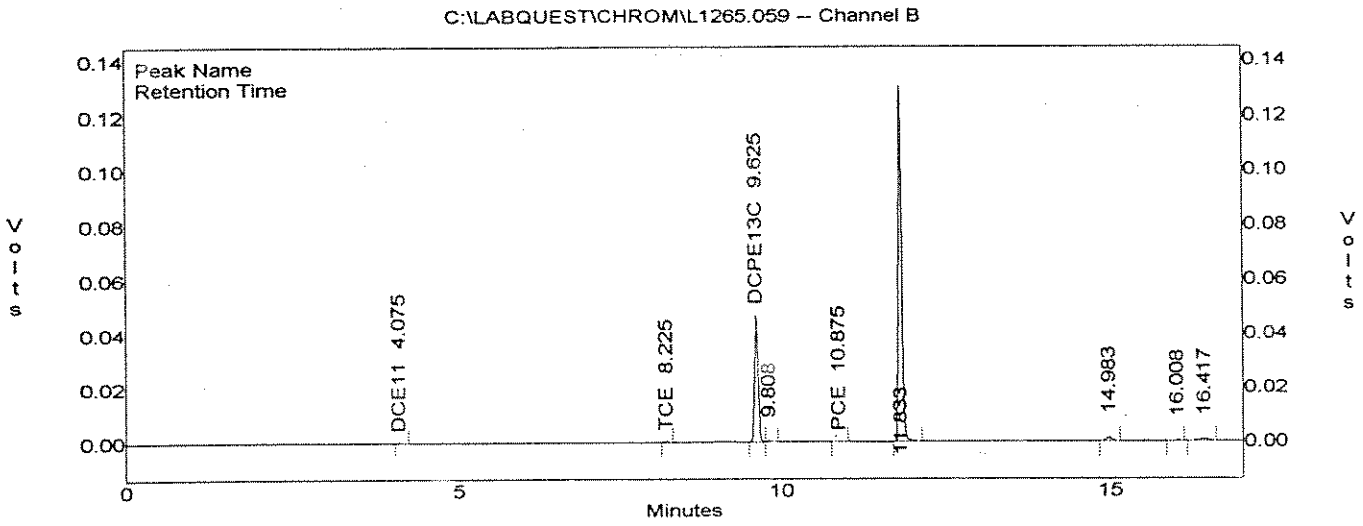


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	10444	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.283	4038	0.382	0
3		8.608	5133	0.000	0
4	DCPE13C	9.667	1231480	1040.808	0
5		10.558	7595	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
6	CFB13	11.875	531075	930.182	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1789766	1971.372	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

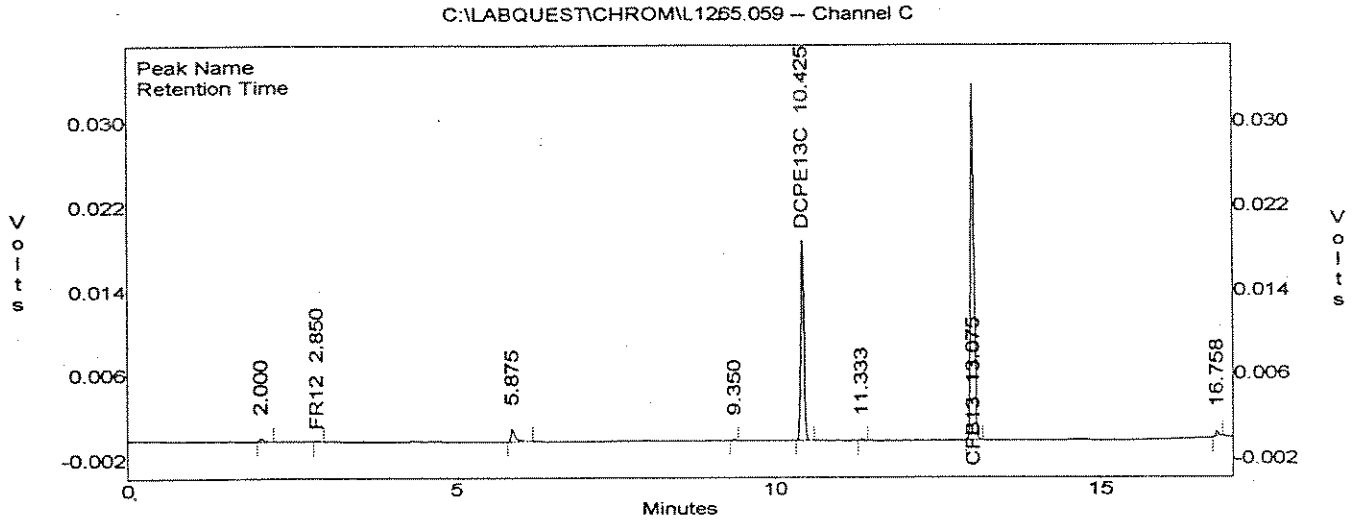
File : C:\LABQUEST\CHROM\L1265.059
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-21-5
Acquired : Dec 21, 1995 11:06:29
Printed : Dec 21, 1995 11:23:54
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.075	1331	0.~~462~~ PS	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
2	TCE	8.225	1337	0.355	0
3	DCPE13C	9.625	172768	874.290	0
4		9.808	1487	0.000	0
--	TOL	10.050	0	0.000	0
5	PCE	10.875	901	0.293	0
--	~~CFB13~~	11.730	0	0.000	0
6	CFB13	11.833	524955	~~0.000~~ 89% PS	~~0~~ 1.69e-6
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
7		14.983	9207	0.000	0
8		16.008	1256	0.000	0
9		16.417	7259	0.000	0
Totals :			720504	875.400	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.059
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-21-5
Acquired : Dec 21, 1995 11:06:29
Printed : Dec 21, 1995 11:23:55
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.000	1537	0.000	0
2	FR12	2.850	604	1.169	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
3		5.875	5954	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
4		9.350	550	0.000	0
--	TCE	9.520	0	0.000	0
5	DCPE13C	10.425	66499	1008.963	0
--	TCA112	11.110	0	0.000	0
6		11.333	574	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
7	CFB13	13.075	121547	1005.829	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
8		16.758	1627	0.000	0
Totals :			198894	2015.961	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-22-5

Probe Depth (ft): 5

Time Sampled: 1106

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 68

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 15

Purge Volume (liters): 400ml

Equilibrium Time: 2sec

Purge Time: 2sec.

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

Date: 12-21-95 Time: 1112

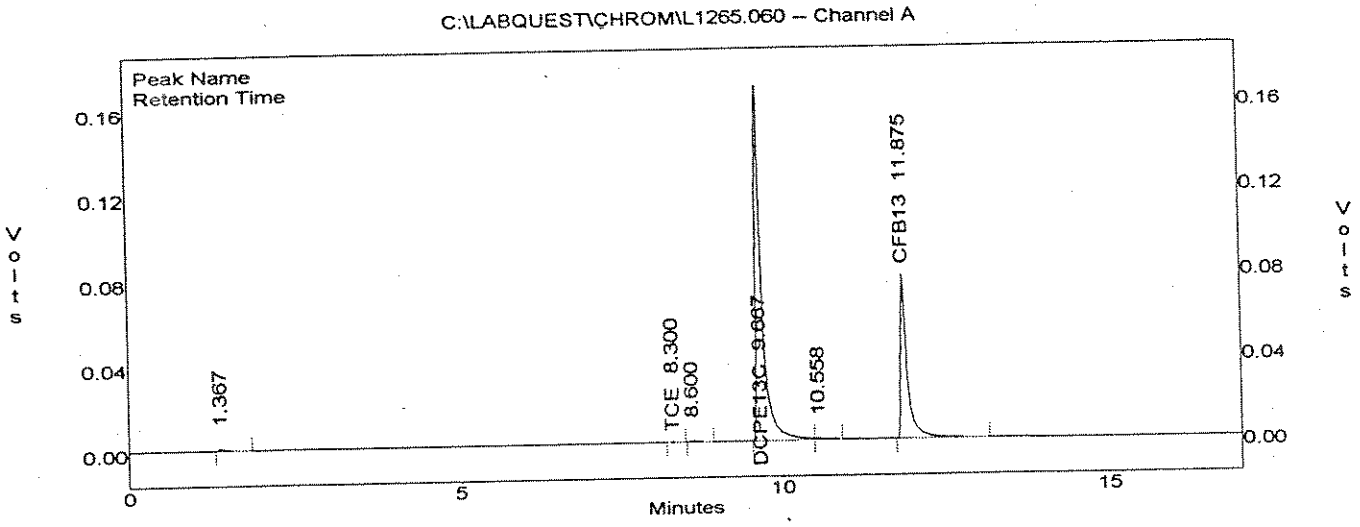
Time Injected:

Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 96 99 % PID: 87 88 % FID: 101 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.060
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-22-5
Acquired : Dec 21, 1995 11:29:29
Printed : Dec 21, 1995 11:46:51
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.367	8636	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.300	1393	0.132	0
3		8.600	4528	0.000	0
4	DCPE13C	9.667	1139599	963.154	0
5		10.558	7302	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
6	CFB13	11.875	567375	993.761	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1728835	1957.047	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-23-5

Time Sampled: 1122

Date Sampled: 12-21-95

Probe Depth (ft): 5

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Air Temp (F): 68

Ground Surface: Asphalt

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Purge Volume (liters): 400 ml

Purge Time: 2 sec.

Notes:

Max. Purge Vacuum (in. Hg): 12

Equilibrium Time: 2 sec

Sample Volume (ml): 20

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-21-95 Time: 1125

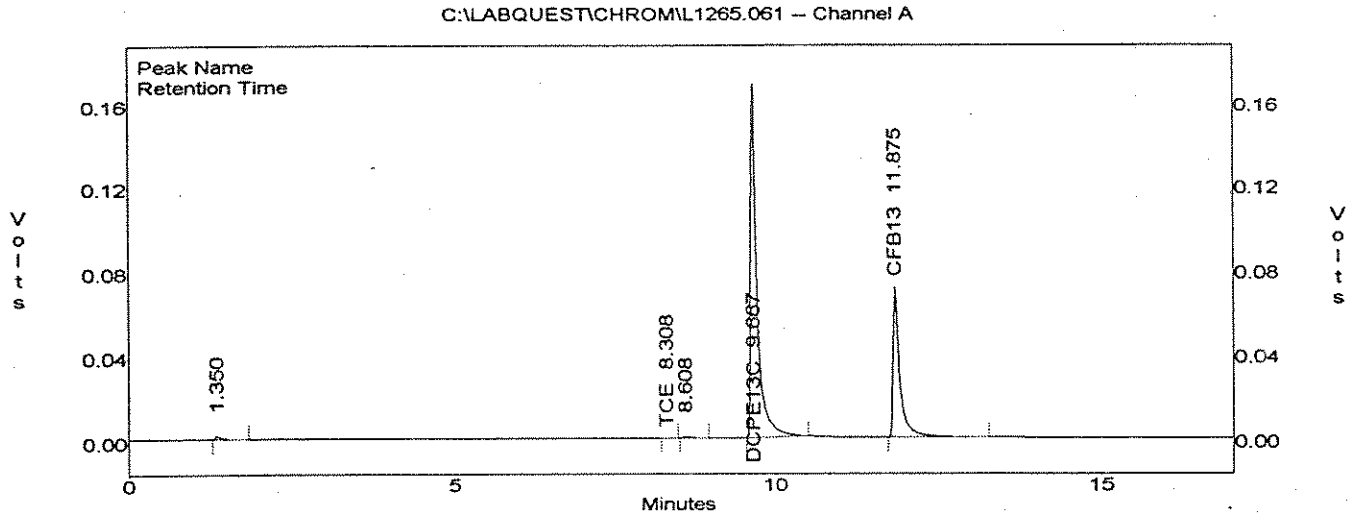
Volume Analyzed (ml): 1.0

Time Injected: 1151 Loop #: manual

Compound	Concentration (ug/l)	Compound	Concentration (ug/l)
Freon 12	<1	Tetrachloroethene	<1
Vinyl Chloride	<1	1,1,1,2 PCA	<1
Chloroethane	<1	1,1,2,2 PCA	<1
Freon 11	<1	1,1-Dichloroethene	<1
Dichloromethane	<1	Benzene	<1
trans-1,2-Dichloroethene	<1	Toluene	<1
1,1-Dichloroethane	<1	Ethyl Benzene	<1
cis-1,2-Dichloroethene	<1	m/p-xylene	<1
Chloroform	<1	o-Xylene	<1
1,1,1-trichloroethane	<1		
Carbon Tetrachloride	<1		
1,2-Dichloroethane	<1	Freon 113	<1
Trichloroethene	<1		
1,1,2-Trichloroethane	<1		

Surrogate Recovery ELCD: 96 92 % PID: 87 88 % FID: 100 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.061
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-23-5
Acquired : Dec 21, 1995 11:52:53
Printed : Dec 21, 1995 12:10:14
User : PAS

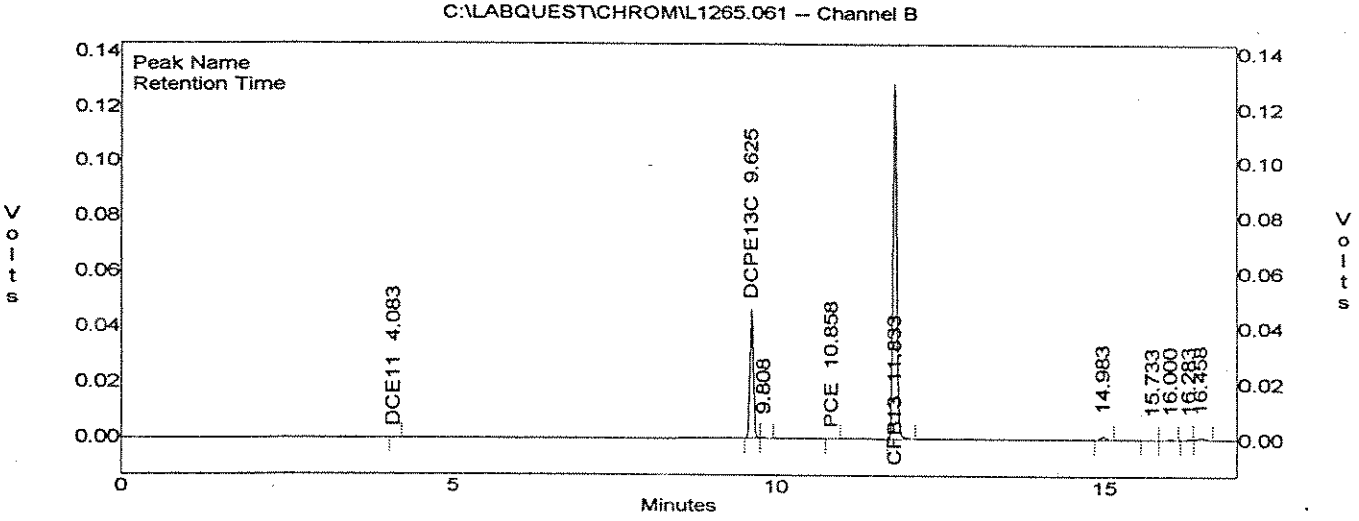


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	9995	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.308	651	0.062	0
3		8.608	5002	0.000	0
4	DCPE13C	9.667	1141408	964.683	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
5	CFB13	11.875	524970	919.488	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1682027	1884.232	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.061
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-23-5
Acquired : Dec 21, 1995 11:52:53
Printed : Dec 21, 1995 12:10:17
User : PAS



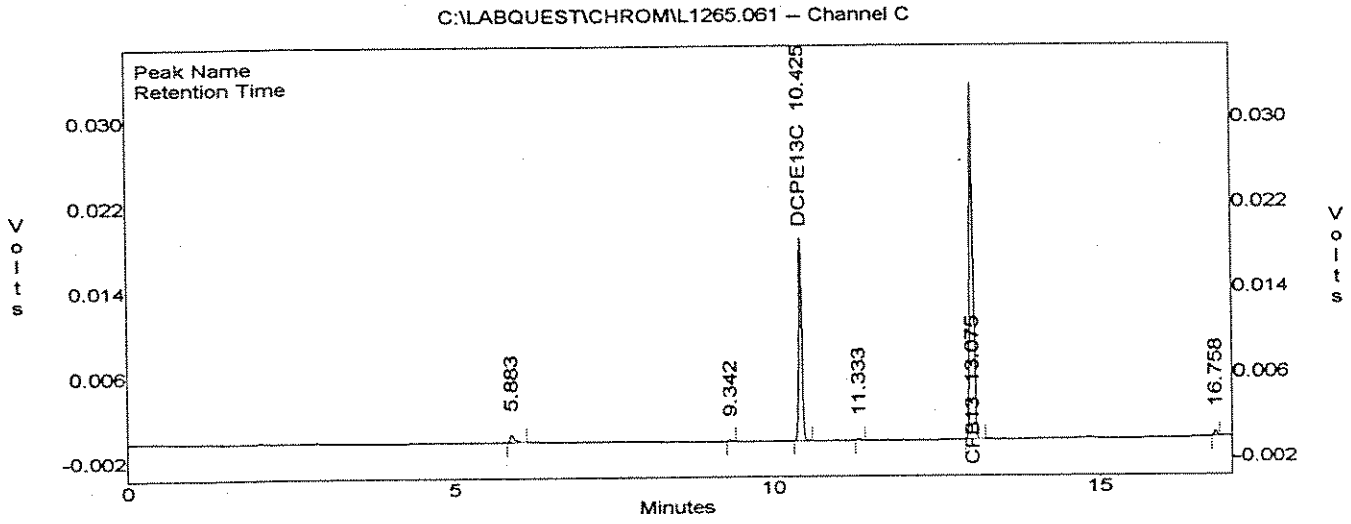
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.083	509	0.177	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.625	171684	868.807	0
3		9.808	1528	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.858	737	0.240	0
5	CFB13	11.833	519964	880.410	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.983	8572	0.000	0
7		15.733	524	0.000	0
8		16.000	1981	0.000	0
9		16.283	1728	0.000	0
10		16.458	6451	0.000	0

Totals :

	713681	1749.634

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.061
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-23-5
Acquired : Dec 21, 1995 11:52:53
Printed : Dec 21, 1995 12:10:19
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
1		5.883	3673	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
2		9.342	544	0.000	0
--	TCE	9.520	0	0.000	0
3	DCPE13C	10.425	66213	1004.635	0
--	TCA112	11.110	0	0.000	0
4		11.333	541	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
5	CFB13	13.075	121132	1002.395	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
6		16.758	1525	0.000	0
Totals :			193630	2007.030	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 L05

Sample I.D.: SV-24-5

Probe Depth (ft): 5

Time Sampled: 1146

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 68

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 14

Purge Volume (liters): 400ml

Equilibrium Time: 2sec

Purge Time: 2sec.

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schuman

Volume Analyzed (ml): 1.0

Date: 12-21-95 Time: 1150

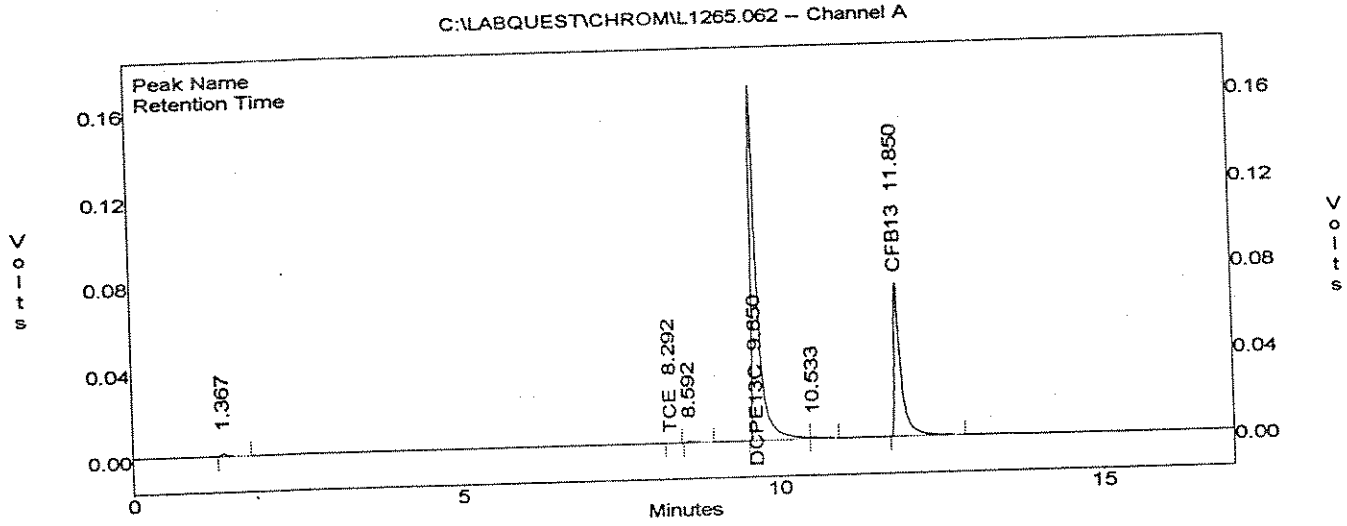
Time Injected: 11

Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 95 93 % PID: 86 87 % FID: 100 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.062
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-24-5
Acquired : Dec 21, 1995 12:15:41
Printed : Dec 21, 1995 12:32:57
User : PAS



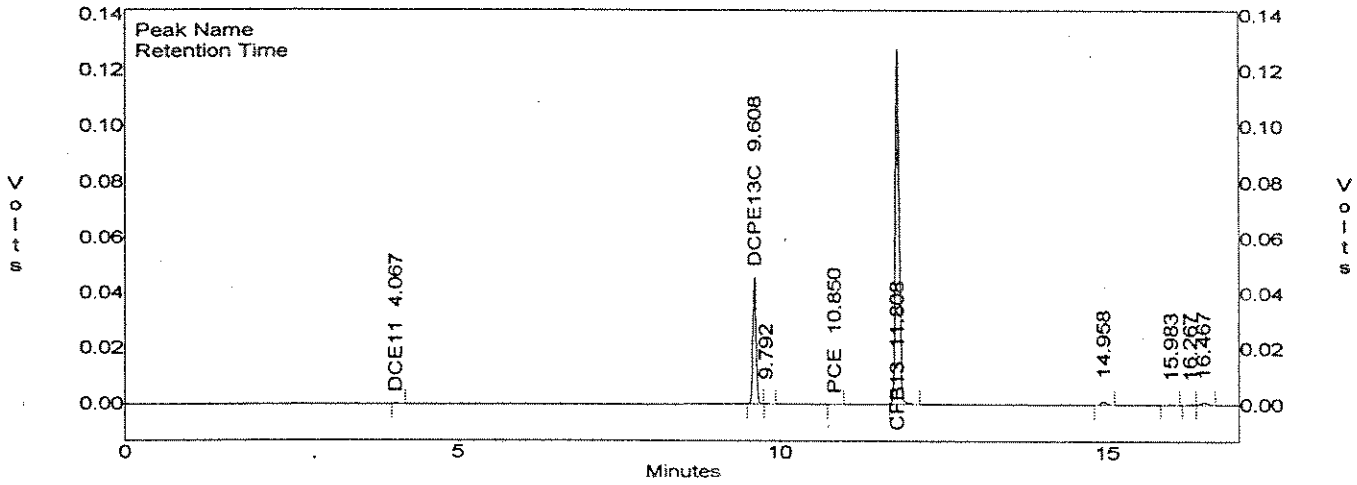
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.367	8995	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.292	803	0.076	0
3		8.592	4853	0.000	0
4	DCPE13C	9.650	1126189	951.820	0
5		10.533	7425	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
6	CFB13	11.850	529451	927.336	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1677717	1879.232	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.062
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-24-5
Acquired : Dec 21, 1995 12:15:41
Printed : Dec 21, 1995 12:33:00
User : PAS

C:\LABQUEST\CHROM\L1265.062 -- Channel B



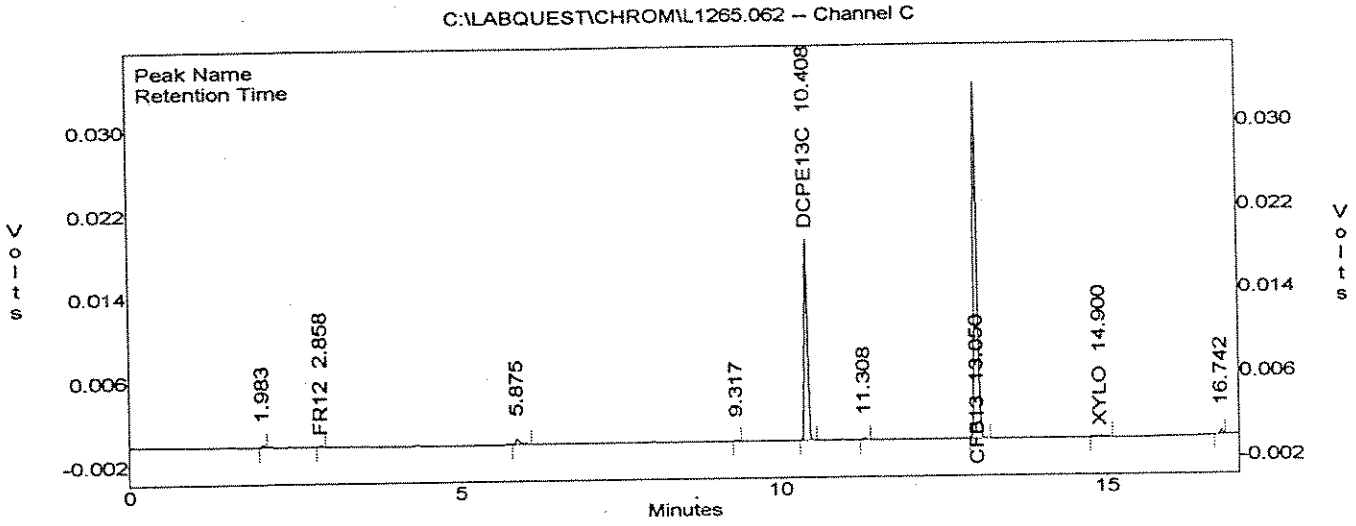
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.067	1126	~~0.391~~ PS	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.608	170384	862.224	0
3		9.792	1275	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.850	728	0 ~~.237~~ Not on Hall PS	0
5	CFB13	11.808	514354	870.911	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.958	8126	0.000	0
7		15.983	1486	0.000	0
8		16.267	1295	0.000	0
9		16.467	6137	0.000	0

Totals :

	704912	1733.764

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.062
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-24-5
Acquired : Dec 21, 1995 12:15:41
Printed : Dec 21, 1995 12:33:01
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.983	880	0.000	0
2	FR12	2.858	500	0.968	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
3		5.875	2632	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
4		9.317	541	0.000	0
--	TCE	9.520	0	0.000	0
5	DCPE13C	10.408	65969	1000.929	0
--	TCA112	11.110	0	0.000	0
6		11.308	603	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
7	CFB13	13.050	120830	999.896	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
8	XYLO	14.900	919	0.540	0
9		16.742	1515	0.000	0
Totals :			194391	2002.334	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: SV-19-5

Probe Depth (ft): 5

Time Sampled: 1205

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 69

Wind dir/speed: South/1mph

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 15

Purge Volume (liters): 400ml

Equilibrium Time: 2sec

Purge Time: 2sec.

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

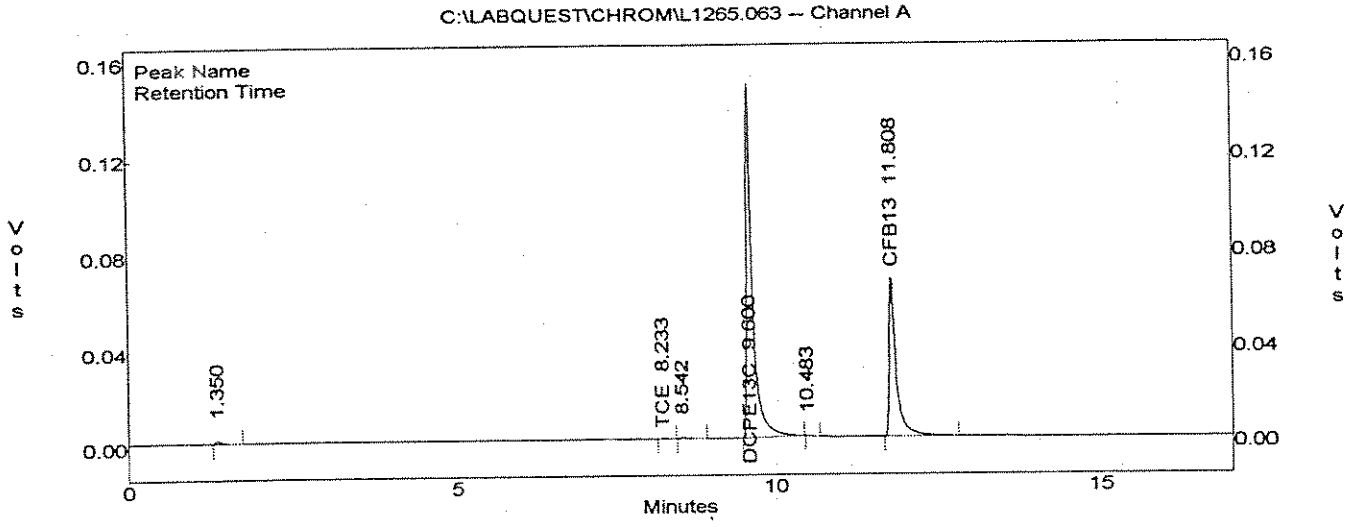
Date: 12-21-95 Time: 1225

Time Injected: 1234 Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 84 85 % PID: 85 86 % FID: 100 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.063
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-19-5
Acquired : Dec 21, 1995 12:44:54
Printed : Dec 21, 1995 13:02:13
User : PAS

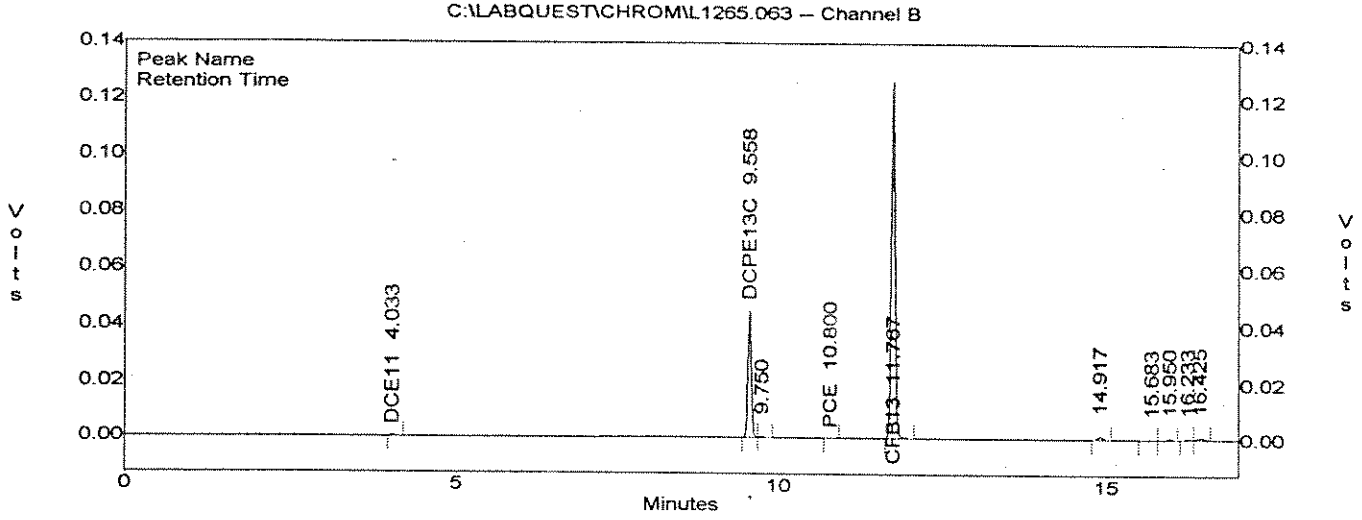


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	7577	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.233	1314	0.124	0
3		8.542	4536	0.000	0
4	DCPE13C	9.600	995335	841.226	0
5		10.483	527	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
6	CFB13	11.808	496068	868.867	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1505358	1710.218	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.063
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-19-5
Acquired : Dec 21, 1995 12:44:54
Printed : Dec 21, 1995 13:02:17
User : PAS



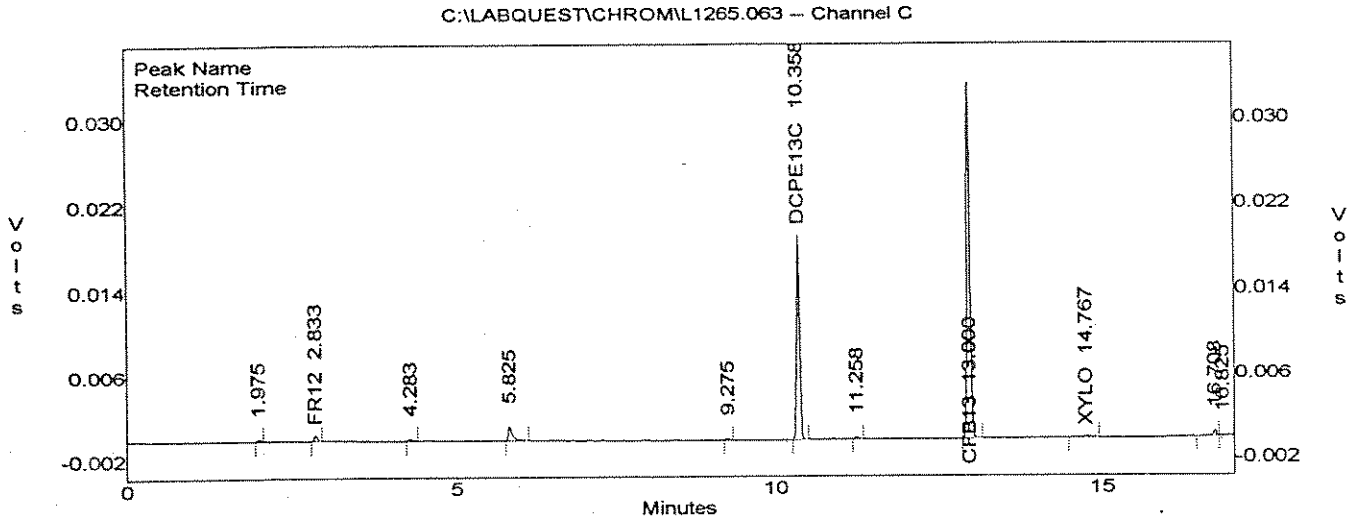
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.033	2461	0.854	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.558	168336	851.860	0
3		9.750	1505	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.800	791	0.257	0
5	CFB13	11.767	507898	859.981	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.917	8134	0.000	0
7		15.683	685	0.000	0
8		15.950	2516	0.000	0
9		16.233	2336	0.000	0
10		16.425	6389	0.000	0

Totals :

		701054	1712.953

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.063
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-19-5
Acquired : Dec 21, 1995 12:44:54
Printed : Dec 21, 1995 13:02:19
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.975	878	0.000	0
2	FR12	2.833	2061	~~3.986~~ Not	0
--	VC	3.640	0	0.000 on Hall	0
3		4.283	752	0.000 PS	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
4		5.825	6505	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
5		9.275	529	0.000	0
--	TCE	9.520	0	0.000	0
6	DCPE13C	10.358	66053	1002.204	0
--	TCA112	11.110	0	0.000	0
7		11.258	590	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
8	CFB13	13.000	120687	998.708	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
9	XYLO	14.767	1474	~~0.867~~ No peak	0
10		16.708	1991	0.000 PS	0
11		16.825	784	0.000	0
Totals :			202307	2005.765	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: SV-18-5

Probe Depth (ft): 5

Time Sampled: 1244

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 69

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 15

Purge Volume (liters): 400ml

Equilibrium Time: 2 sec

Purge Time: 2 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

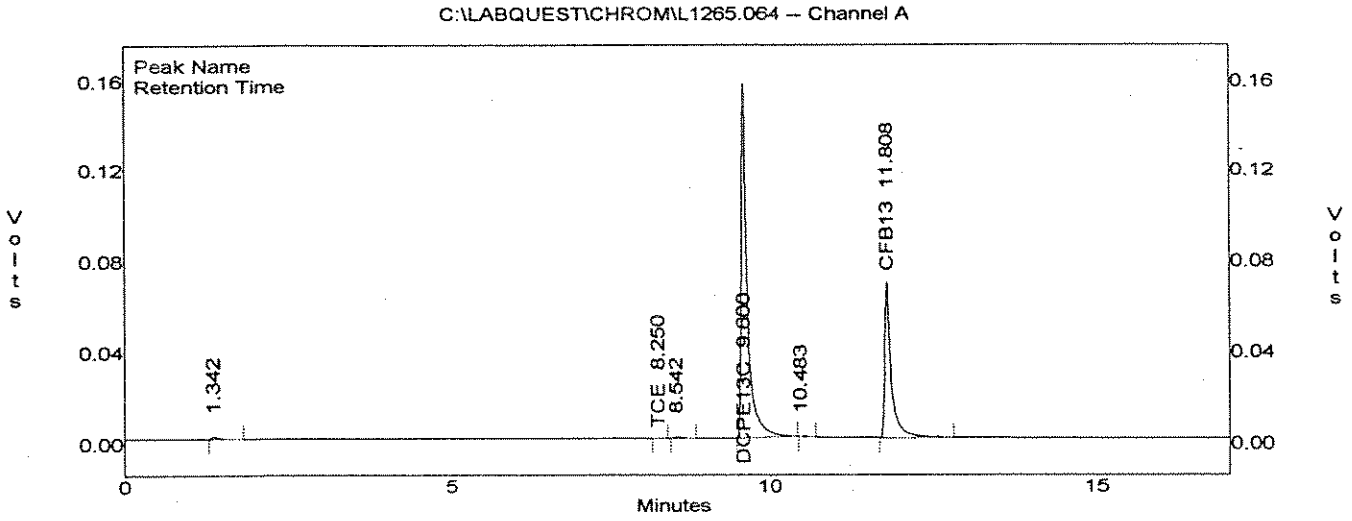
Date: 12-21-95 Time: 1234

Time Injected: 1300 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 87 87 % PID: 85 86 % FID: 101 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.064
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-18-5
Acquired : Dec 21, 1995 13:07:57
Printed : Dec 21, 1995 13:25:16
User : PAS



Channel A Results

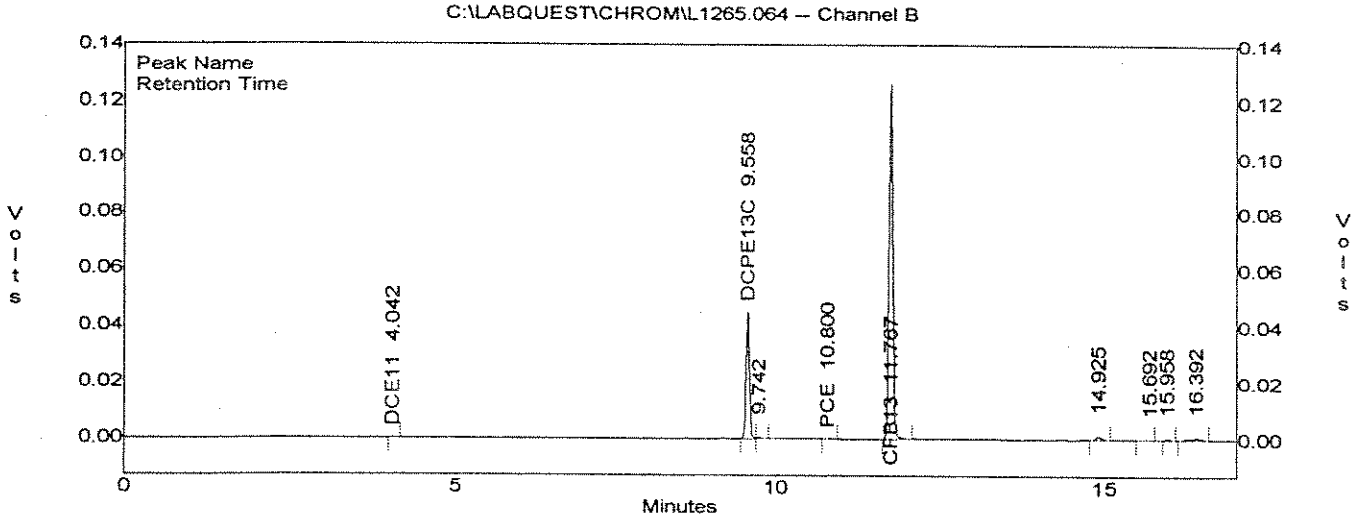
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.342	8774	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.250	581	0.055	0
3		8.542	4340	0.000	0
4	DCPE13C	9.600	1030787	871.189	0
5		10.483	554	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
6	CFB13	11.808	496946	870.404	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

		1541982	1741.648

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.064
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-18-5
Acquired : Dec 21, 1995 13:07:57
Printed : Dec 21, 1995 13:25:20
User : PAS



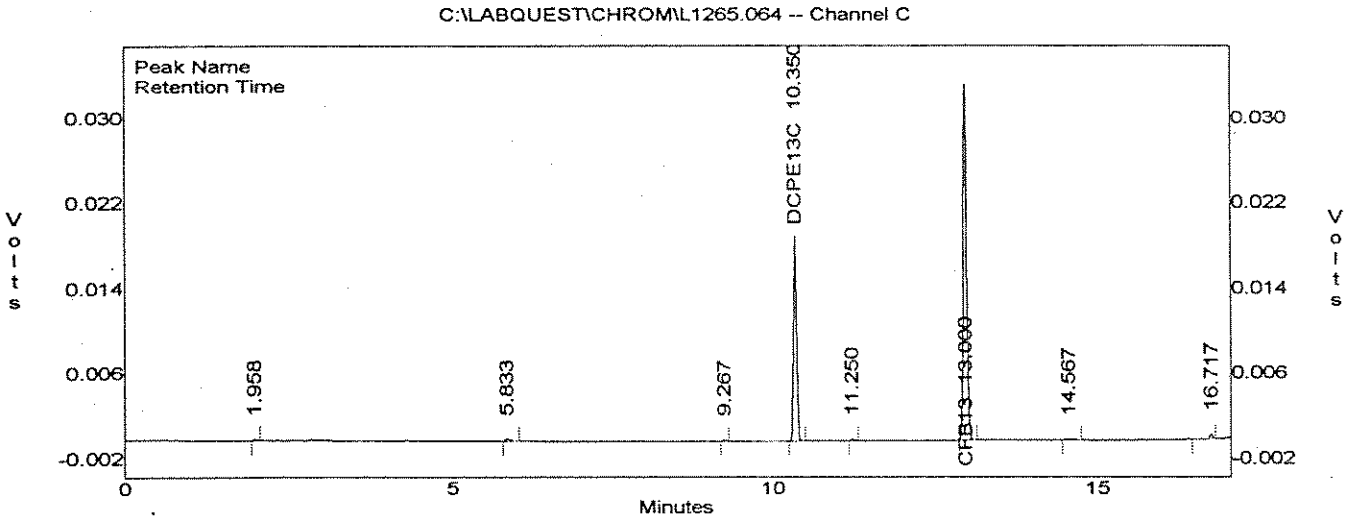
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.042	816	~~0.203~~ PS	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.558	167364	846.945	0
3		9.742	1454	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.800	674	0.219	0
5	CFB13	11.767	505674	856.215	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.925	7594	0.000	0
7		15.692	772	0.000	0
8		15.958	2265	0.000	0
9		16.392	8873	0.000	0

Totals :

	695489	1703.663

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.064
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-18-5
Acquired : Dec 21, 1995 13:07:57
Printed : Dec 21, 1995 13:25:22
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.958	594	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.833	1189	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.267	568	0.000	0
--	TCE	9.520	0	0.000	0
4	DCPE13C	10.350	66299	1005.929	0
--	TCA112	11.110	0	0.000	0
5		11.250	612	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
6	CFB13	13.000	120741	999.155	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
7		14.567	649	0.000	0
--	XYLO	14.830	0	0.000	0
8		16.717	1584	0.000	0

Totals :

	192238	2005.084

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-17-5

Probe Depth (ft): 5

Time Sampled: 1301

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 70

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 13

Purge Volume (liters): 400ml

Equilibrium Time: 2sec

Purge Time: 2sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

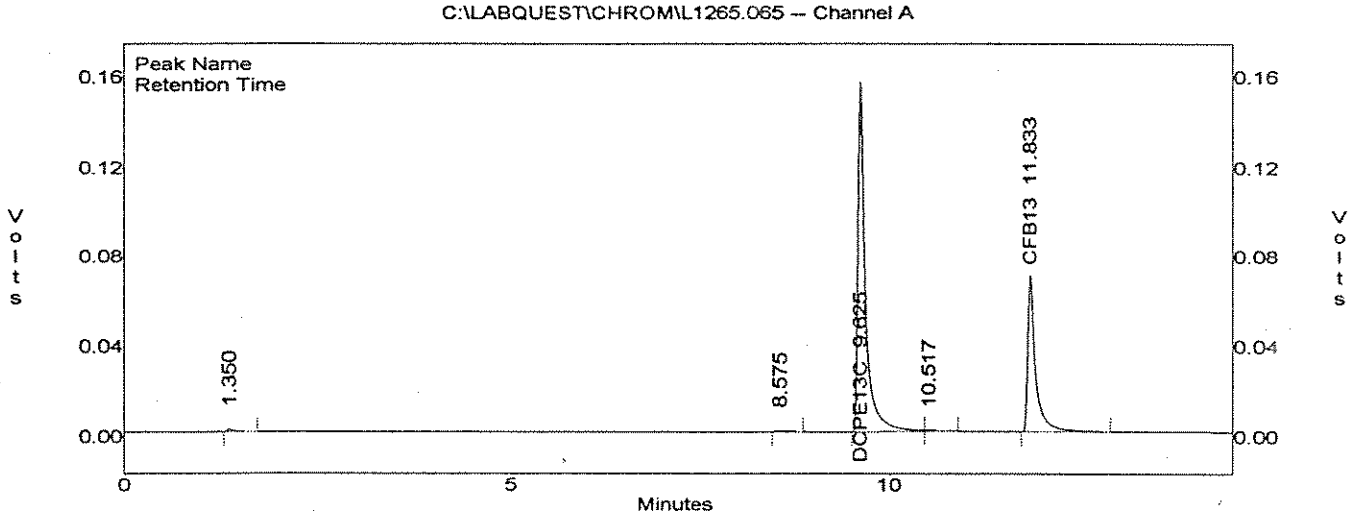
Date: 12-21-95 Time: 1303

Time Injected: 1327 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 91 89 % PID: 85 86 % FID: 101 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.065
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-1~~8~~-5 PS
Acquired : Dec 21, 1995 13:30:40
Printed : Dec 21, 1995 13:45:19
User : PAS



Channel A Results

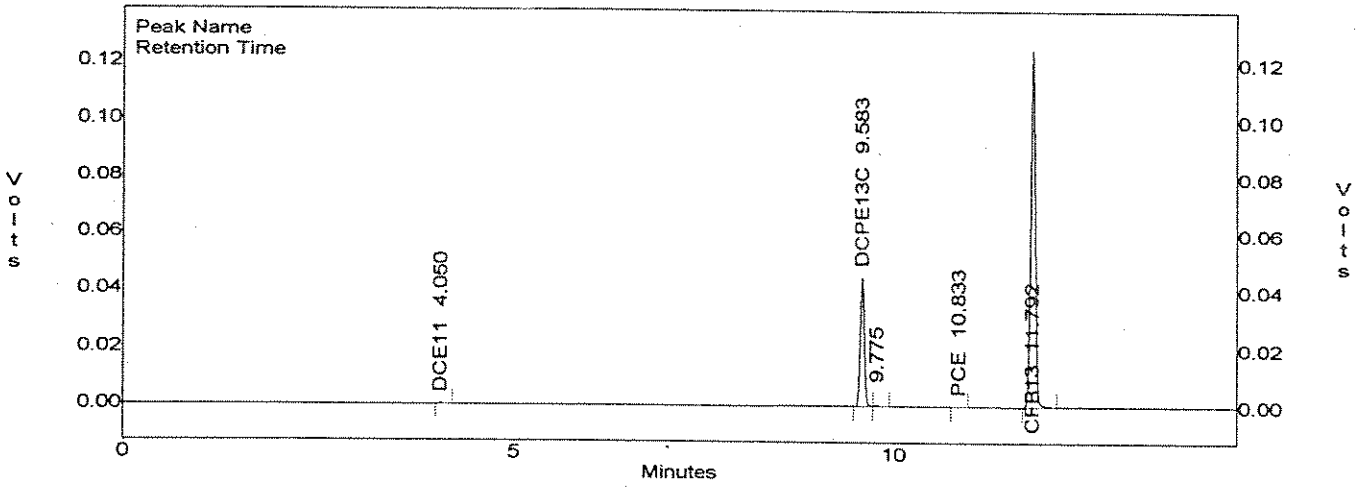
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	7885	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
--	TCE	8.220	0	0.000	0
2		8.575	4338	0.000	0
3	DCPE13C	9.625	1075814	909.245	0
4		10.517	6722	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
5	CFB13	11.833	506739	887.556	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals : 1601499 1796.801

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.065
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : ~~SV-1265P5~~ SV-17-5 P8
Acquired : Dec 21, 1995 13:30:40
Printed : Dec 21, 1995 13:45:21
User : PAS

C:\LABQUEST\CHROM\L1265.065 -- Channel B



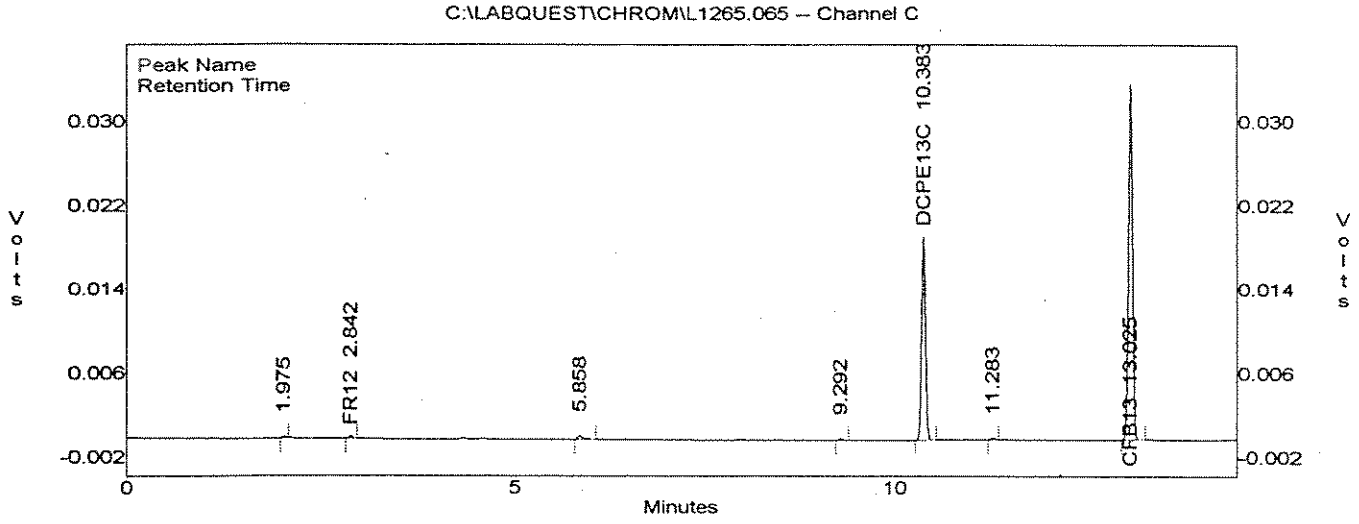
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.050	1468	0.509	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.583	167499	847.628	0
3		9.775	1437	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.833	691	0.225	0
5	CFB13	11.792	505858	856.526	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0

Totals :

	676954	1704.888

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.065
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-18-5
Acquired : Dec 21, 1995 13:30:40
Printed : Dec 21, 1995 13:45:23
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.975	695	0.000	0
2	FR12	2.842	914	~~1.768~~ PS	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
3		5.858	1925	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
4		9.292	549	0.000	0
--	TCE	9.520	0	0.000	0
5	DCPE13C	10.383	66341	1006.577	0
--	TCA112	11.110	0	0.000	0
6		11.283	571	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
7	CFB13	13.025	121235	1003.247	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0

Totals :

	192232	2011.593

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-16-5

Time Sampled: 1320

Date Sampled: 12-21-95

Probe Depth (ft): 5

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Air Temp (F): 71

Ground Surface: Asphalt

Wind dir/speed: South/1mph

Sample Parameters

Probe Volume (ml): 80

Purge Volume (liters): 400ml

Purge Time: 2sec.

Notes:

Max. Purge Vacuum (in. Hg): 15

Equilibrium Time: 2sec

Sample Volume (ml): 20

Syringe ID: a: b:

Analytical Summary

Chemist: D. Schumann

Date: 12-21-95 Time: 1322

Volume Analyzed (ml): 1.0

Time Injected: 1350 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 94 89 % PID: 85 86 % FID: 100 100 %

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-15-5

Probe Depth (ft): 5

Time Sampled: 1343

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 71

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 14

Purge Volume (liters): 400ml

Equilibrium Time: 2sec

Purge Time: 2sec.

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

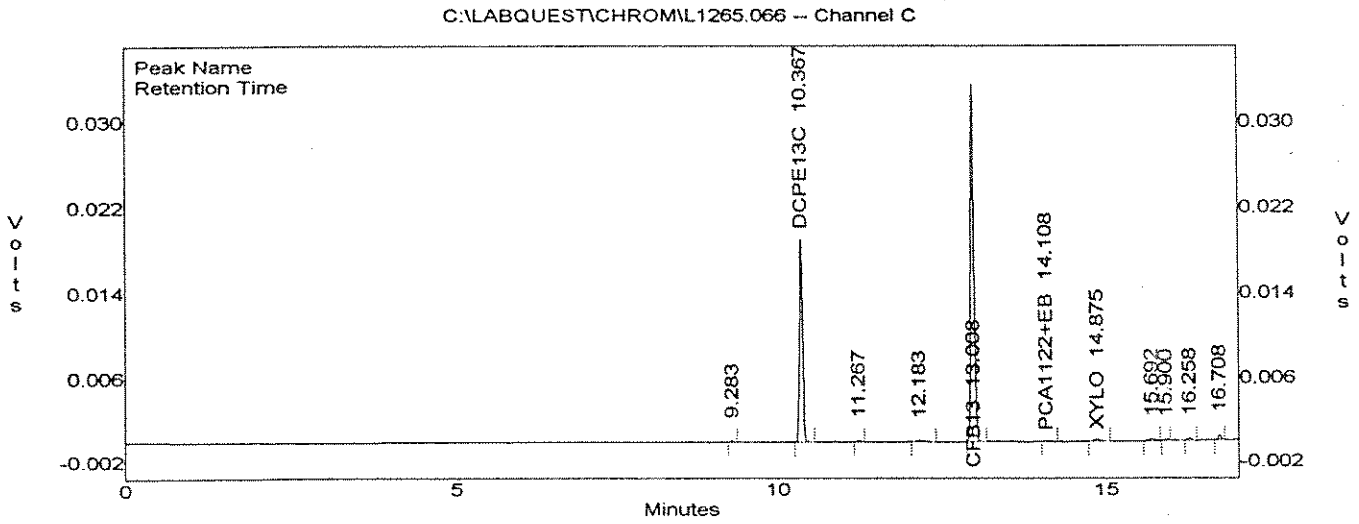
Date: 12-21-95 Time: 1351

Time Injected: 1410 Loop #: manual

Compound	Concentration (ug/1)	Compound	Concentration (ug/1)
Freon 12	<1	Tetrachloroethene	<1
Vinyl Chloride	<1	1,1,1,2 PCA	<1
Chloroethane	<1	1,1,2,2 PCA	<1
Freon 11	<1	1,1-Dichloroethene	<1
Dichloromethane	<1	Benzene	<1
trans-1,2-Dichloroethene	<1	Toluene	<1
1,1-Dichloroethane	<1	Ethyl Benzene	<1
cis-1,2-Dichloroethene	<1	m/p-xylene	<1
Chloroform	<1	o-Xylene	<1
1,1,1-trichloroethane	<1		
Carbon Tetrachloride	<1		
1,2-Dichloroethane	<1	Freon 113	<1
Trichloroethene 1.0	~~<1 (0.95) PS~~		
1,1,2-Trichloroethane	<1		

Surrogate Recovery ELCD: 87 85 % PID: 83 84 % FID: 101 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.066
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-16-5
Acquired : Dec 21, 1995 13:50:01
Printed : Dec 21, 1995 14:07:27
User : PAS



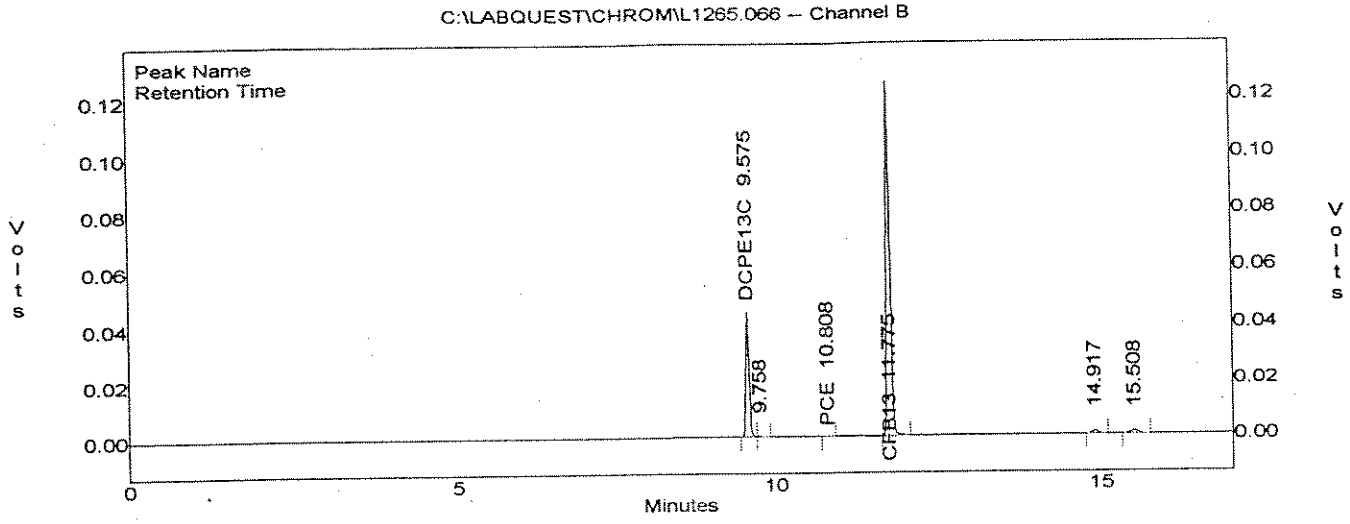
Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
1		9.283	511	0.000	0
--	TCE	9.520	0	0.000	0
2	DCPE13C	10.367	65856	999.207	0
--	TCA112	11.110	0	0.000	0
3		11.267	598	0.000	0
--	TOL	11.430	0	0.000	0
4		12.183	1084	0.000	0
--	PCE	12.710	0	0.000	0
5	CFB13	13.008	120466	996.886	0
--	PCA1112	13.490	0	0.000	0
6	PCA1122+EB	14.108	589	0.788	0
--	XYLMP	14.230	0	0.000	0
7	XYLO	14.875	1551	0.912	0
8		15.692	1351	0.000	0
9		15.900	557	0.000	0
10		16.258	902	0.000	0
11		16.708	1622	0.000	0

Totals : 195091 1997.793

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

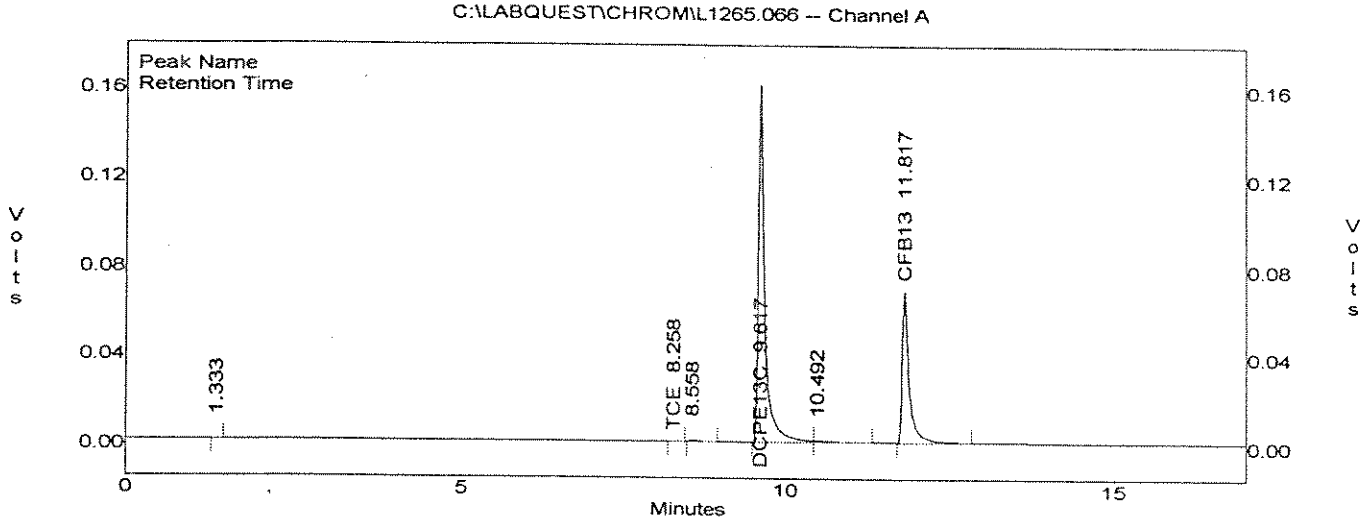
File : C:\LABQUEST\CHROM\L1265.066
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-16-5
Acquired : Dec 21, 1995 13:50:01
Printed : Dec 21, 1995 14:07:25
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
--	DCE11	3.890	0	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
1	DCPE13C	9.575	167563	847.952	0
2		9.758	1525	0.000	0
--	TOL	10.050	0	0.000	0
3	PCE	10.808	538	0.175	0
4	CFB13	11.775	505369	855.698	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
5		14.917	7603	0.000	0
6		15.508	9069	0.000	0
Totals :			691668	1703.825	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.066
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-16-5
Acquired : Dec 21, 1995 13:50:01
Printed : Dec 21, 1995 14:07:21
User : PAS



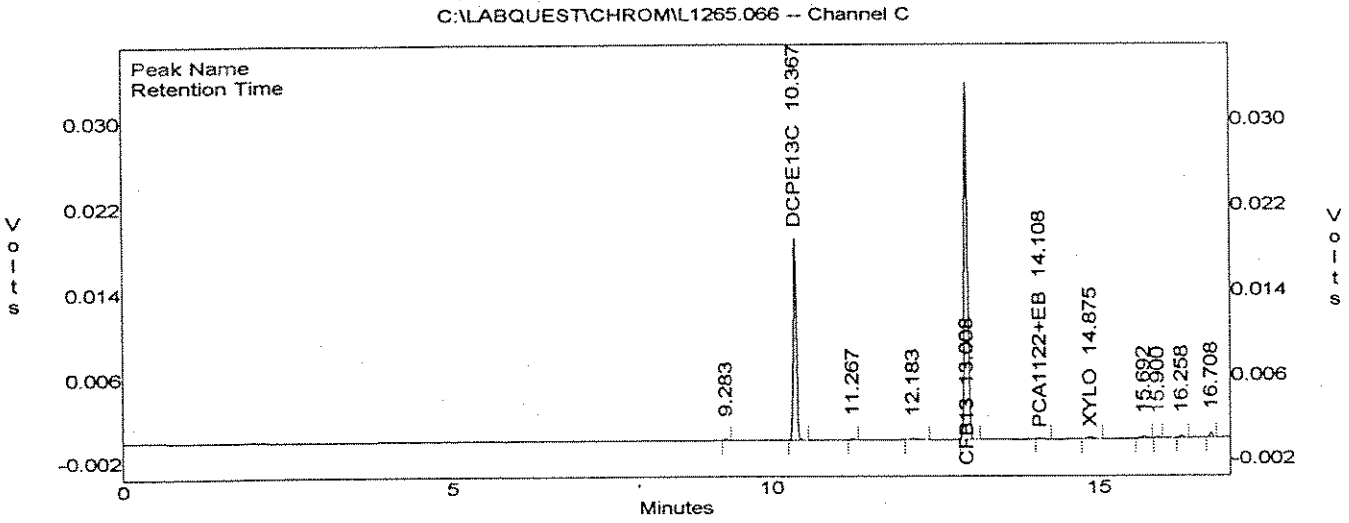
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.333	919	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.258	800	0.076	0
3		8.558	5256	0.000	0
4	DCPE13C	9.617	1109782	937.954	0
5		10.492	15648	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
6	CFB13	11.817	507940	889.661	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

	1640347	1827.691

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.066
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-16-5
Acquired : Dec 21, 1995 13:50:01
Printed : Dec 21, 1995 14:07:27
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
1		9.283	511	0.000	0
--	TCE	9.520	0	0.000	0
2	DCPE13C	10.367	65856	999.207	0
--	TCA112	11.110	0	0.000	0
3		11.267	598	0.000	0
--	TOL	11.430	0	0.000	0
4		12.183	1084	0.000	0
--	PCE	12.710	0	0.000	0
5	CFB13	13.008	120466	996.886	0
--	PCA1112	13.490	0	0.000	0
6	PCA1122+EB	14.108	589	0.788	0
--	XYLMP	14.230	0	0.000	0
7	XYLO	14.875	1551	0.912	0
8		15.692	1351	0.000	0
9		15.900	557	0.000	0
10		16.258	902	0.000	0
11		16.708	1622	0.000	0
Totals :			195091	1997.793	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-15-5

Probe Depth (ft): 5

Time Sampled: 1343

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 71

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 14

Purge Volume (liters): 400ml

Equilibrium Time: 2sec

Purge Time: 2sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

Date: 12-21-95 Time: 1351

Time Injected: 1410

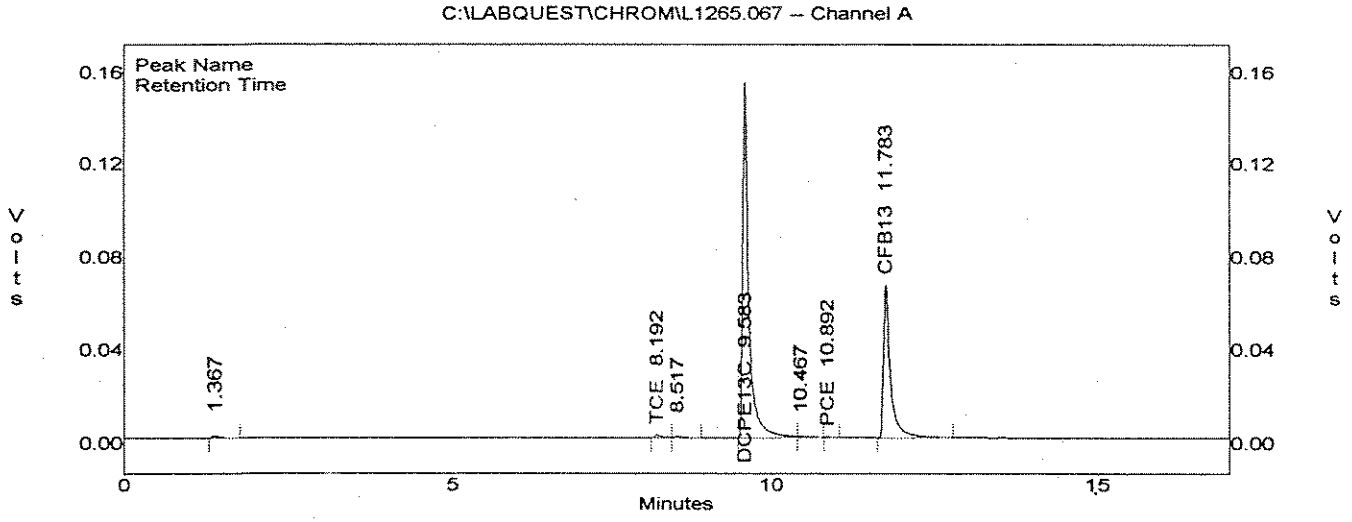
Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene 1.0	~~<1 (0.95)~~ 95 ✓				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 87 85 % PID: 83 84 % FID: 101 100 %

BGPAA 0411

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.067
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-15-5
Acquired : Dec 21, 1995 14:12:25
Printed : Dec 21, 1995 14:29:45
User : PAS



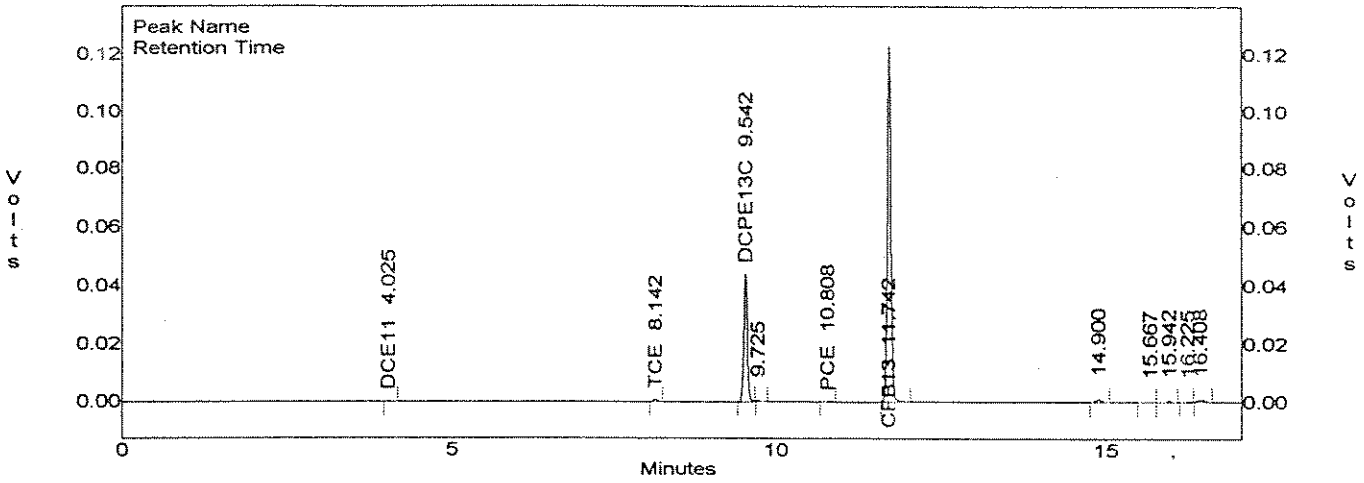
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.367	7670	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.192	10049	0.951	0
3		8.517	6056	0.000	0
4	DCPE13C	9.583	1030814	871.212	0
5		10.467	5617	0.000	0
--	TCA112	10.760	0	0.000	0
6	PCE	10.892	674	0.044	0
7	CFB13	11.783	484513	848.627	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1545395	1720.835	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.067
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-15-5
Acquired : Dec 21, 1995 14:12:25
Printed : Dec 21, 1995 14:29:49
User : PAS

C:\LABQUEST\CHROM\L1265.067 -- Channel B



Channel B Results

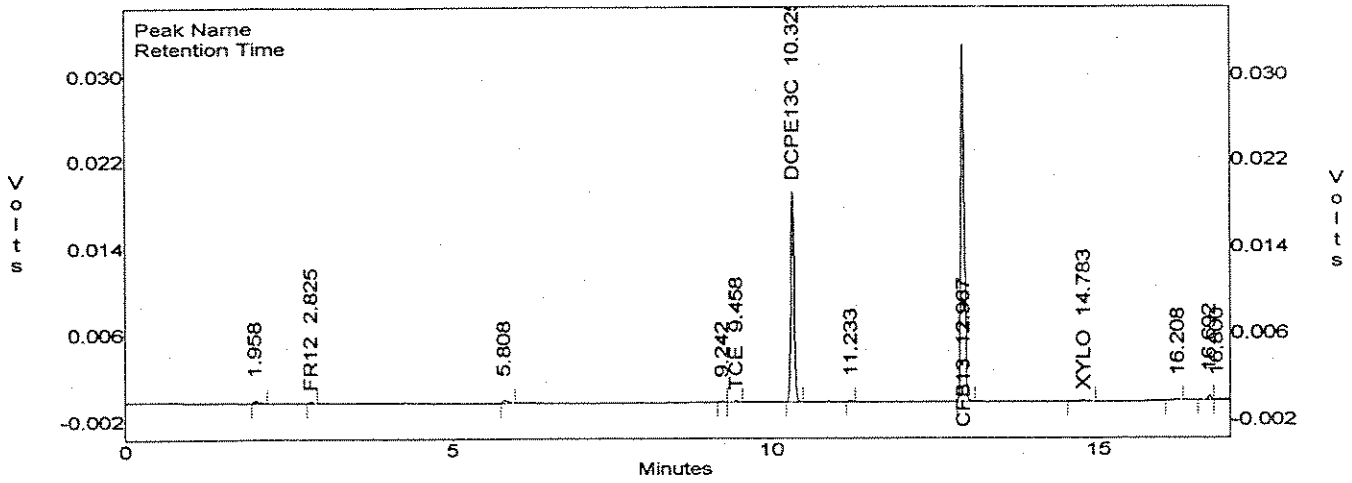
peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.025	1040	~~0.361~~ PS	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
2	TCE	8.142	3238	0.860	0
3	DCPE13C	9.542	164433	832.112	0
4		9.725	1200	0.000	0
--	TOL	10.050	0	0.000	0
5	PCE	10.808	781	0.254	0
6	CFB13	11.742	494476	837.254	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
7		14.900	6327	0.000	0
8		15.667	520	0.000	0
9		15.942	1853	0.000	0
10		16.225	1758	0.000	0
11		16.408	5766	0.000	0

Totals :

	681396	1670.841

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.067
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-15-5
Acquired : Dec 21, 1995 14:12:25
Printed : Dec 21, 1995 14:29:51
User : PAS

C:\LABQUEST\CHROM\L1265.067 — Channel C



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.958	1218	0.000	0
2	FR12	2.825	658	~~1.272~~ Not on Hold PS	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
3		5.808	1422	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
4		9.242	586	0.000	0
5	TCE	9.458	552	1.855	0
6	DCPE13C	10.325	66366	1006.953	0
--	TCA112	11.110	0	0.000	0
7		11.233	570	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
8	CFB13	12.967	120484	997.035	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
9	XYLO	14.783	1086	0.639	0
10		16.208	510	0.000	0
11		16.692	1658	0.000	0
12		16.800	1124	0.000	0
Totals :			196240	2007.754	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-7-5

Probe Depth (ft): 5

Time Sampled: 1416

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 72

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 13

Purge Volume (liters): 400ml

Equilibrium Time: 2 sec

Purge Time: 2 sec.

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

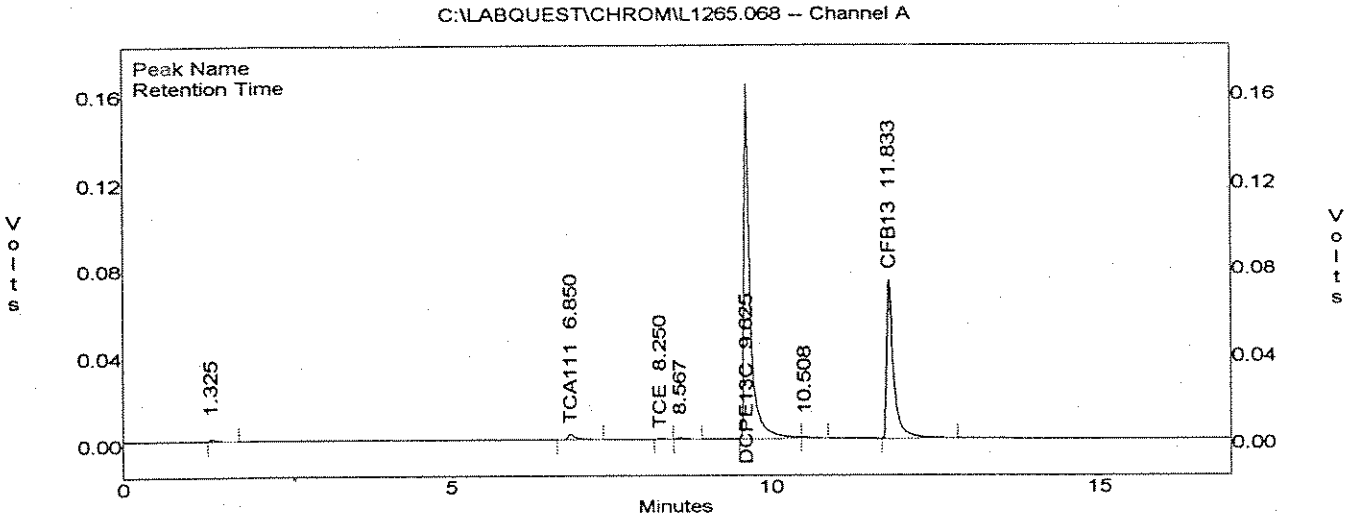
Date: 12-21-95 Time: 1432

Time Injected: 1433 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	2.1 ✓				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 92 91 % PID: 84 85 % FID: 101 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.068
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-7-5
Acquired : Dec 21, 1995 14:35:55
Printed : Dec 21, 1995 14:53:16
User : PAS



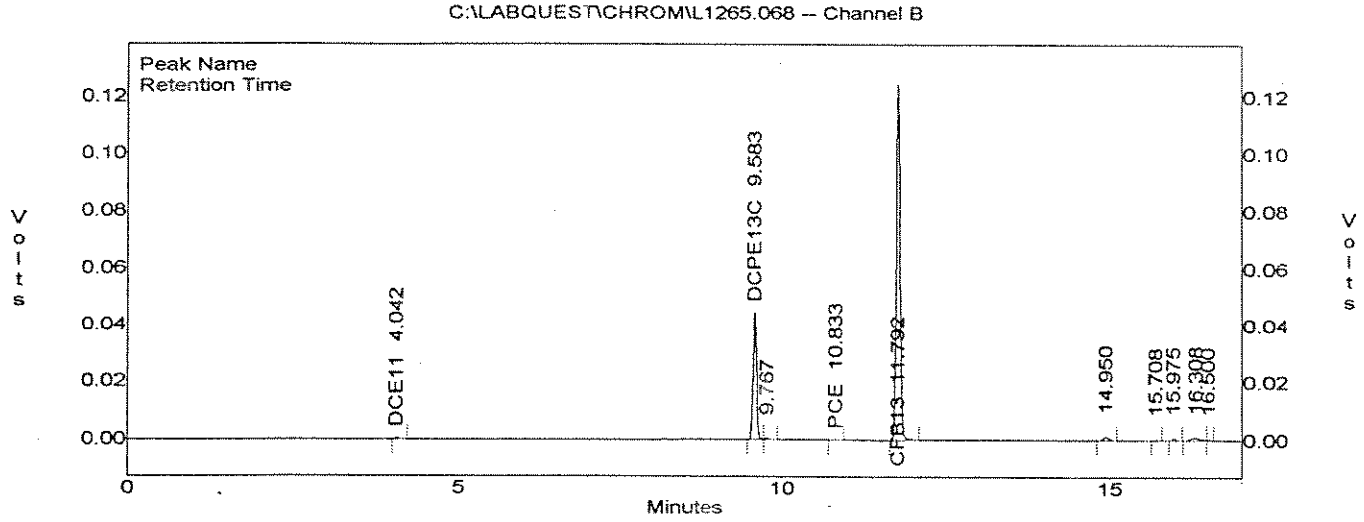
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.325	8769	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
2	TCA111	6.850	22400	2.147	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.250	1732	0.164	0
4		8.567	5014	0.000	0
5	DCPE13C	9.625	1094110	924.708	0
6		10.508	6205	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
7	CFB13	11.833	516800	905.179	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1655033	1832.198	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.068
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-7-5
Acquired : Dec 21, 1995 14:35:55
Printed : Dec 21, 1995 14:53:19
User : PAS

C:\LABQUEST\CHROM\L1265.068 -- Channel B



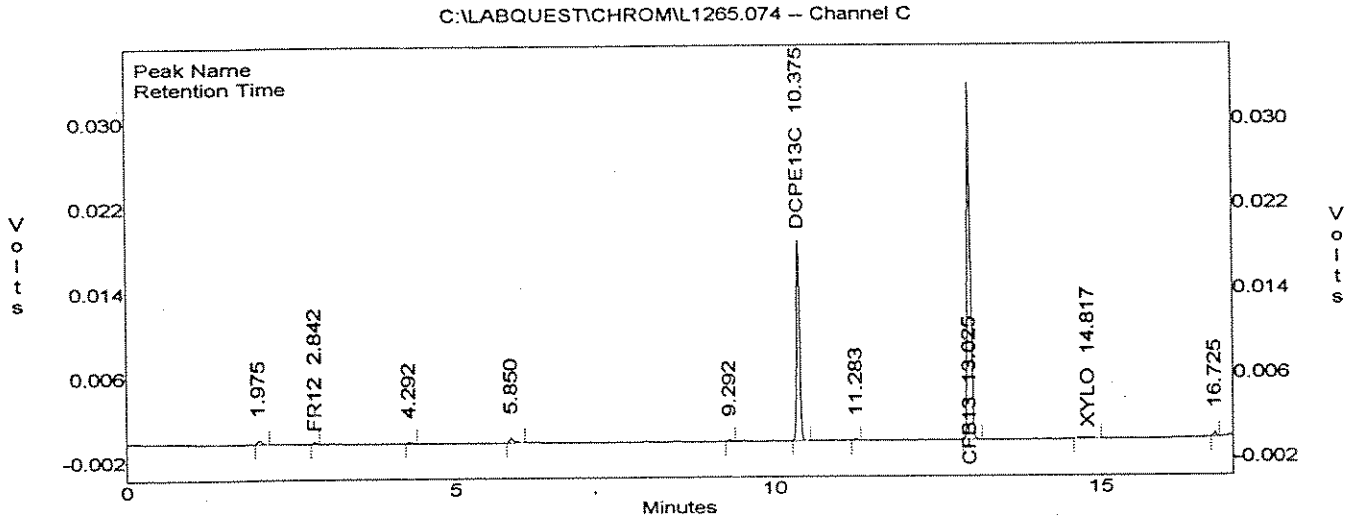
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.042	2185	0.~~758~~ Not on Hall PJ	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.583	166076	840.425	0
3		9.767	1501	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.833	821	0.267	0
5	CFB13	11.792	501258	848.738	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.950	8264	0.000	0
7		15.708	760	0.000	0
8		15.975	2722	0.000	0
9		16.308	8419	0.000	0
10		16.500	882	0.000	0

Totals :

692892 1690.188

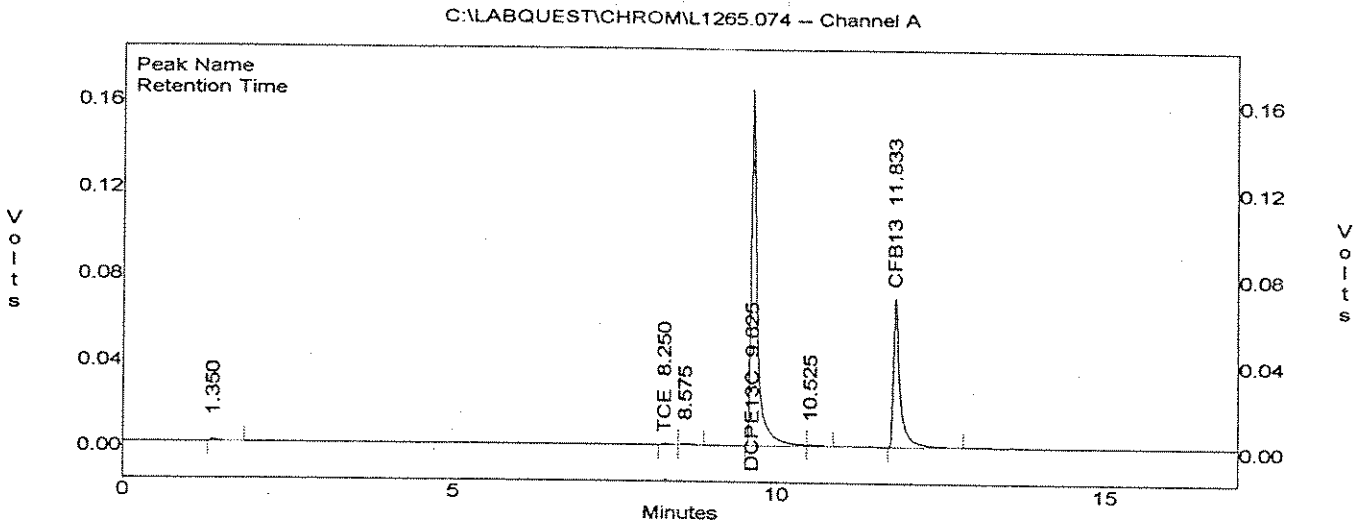
Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.074
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-9-5
Acquired : Dec 21, 1995 16:54:43
Printed : Dec 21, 1995 17:12:10
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.975	1980	0.000	0
2	FR12	2.842	649	~~1.255~~	0
--	VC	3.640	0	0.000	0
3		4.292	600	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
4		5.850	2497	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
5		9.292	567	0.000	0
--	TCE	9.520	0	0.000	0
6	DCPE13C	10.375	66540	1009.593	0
--	TCA112	11.110	0	0.000	0
7		11.283	603	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
8	CFB13	13.025	121006	1001.348	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
9	XYLO	14.817	1171	0.689	0
10		16.725	1372	0.000	0
Totals :			196988	2012.885	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.074
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-9-5
Acquired : Dec 21, 1995 16:54:43
Printed : Dec 21, 1995 17:12:05
User : PAS



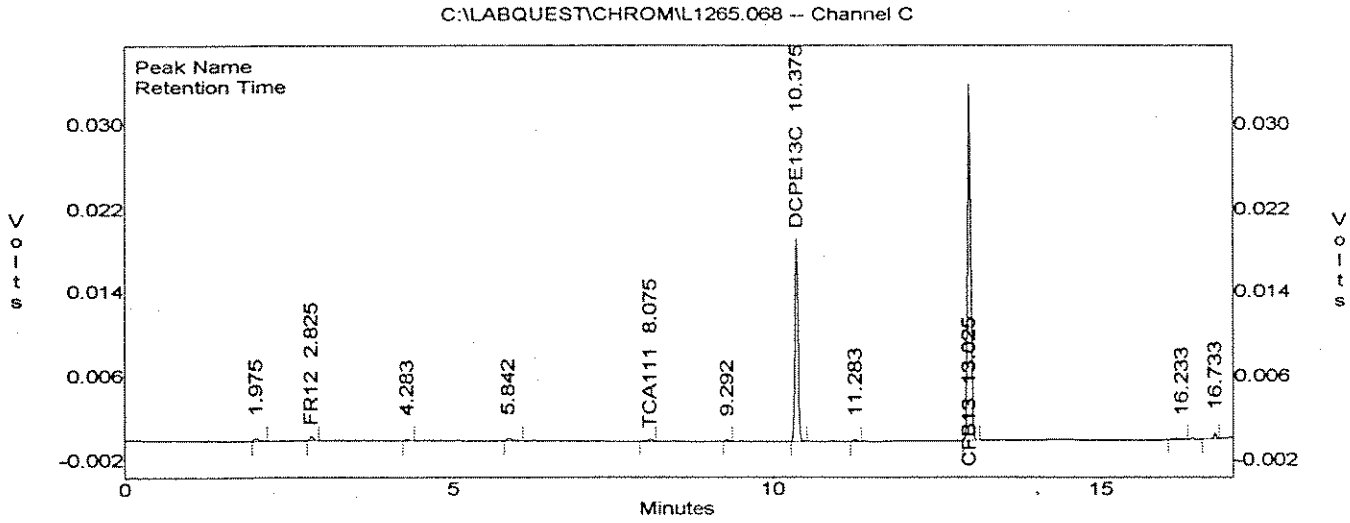
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	7796	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.250	5398	0.511	0
3		8.575	5228	0.000	0
4	DCPE13C	9.625	1100867	930.418	0
5		10.525	6212	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
6	CFB13	11.833	497162	870.783	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

	1622666	1801.713

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.068
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-7-5
Acquired : Dec 21, 1995 14:35:55
Printed : Dec 21, 1995 14:53:21
User : PAS

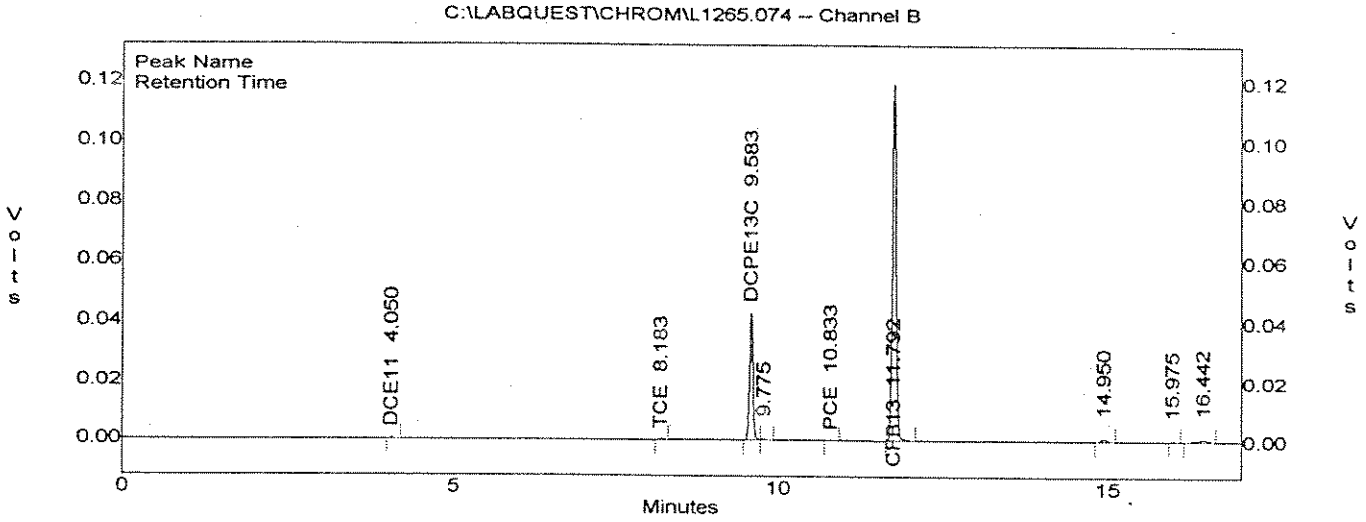


Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.975	1213	0.000	0
2	FR12	2.825	1665	~~3.221~~ Not on Hall PS	0
--	VC	3.640	0	0.000	0
3		4.283	679	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
4		5.842	1441	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
5	TCA111	8.075	1093	3.611	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
6		9.292	536	0.000	0
--	TCE	9.520	0	0.000	0
7	DCPE13C	10.375	66507	1009.085	0
--	TCA112	11.110	0	0.000	0
8		11.283	594	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
9	CFB13	13.025	121084	1001.996	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
10		16.233	573	0.000	0
11		16.733	1680	0.000	0
Totals :			197068	2017.913	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.074
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-9-5
Acquired : Dec 21, 1995 16:54:43
Printed : Dec 21, 1995 17:12:08
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.050	1779	0.618	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
2	TCE	8.183	1747	0.464	0
3	DCPE13C	9.583	161748	818.523	0
4		9.775	1380	0.000	0
--	TOL	10.050	0	0.000	0
5	PCE	10.833	680	0.221	0
6	CFB13	11.792	486874	824.382	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
7		14.950	6967	0.000	0
8		15.975	790	0.000	0
9		16.442	7145	0.000	0
Totals :			669112	1644.208	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-6-5

Time Sampled: 1652

Date Sampled: 12-21-95

Probe Depth (ft): 5

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Air Temp (F): 67

Ground Surface: Asphalt

Wind dir/speed: South/1mph

Sample Parameters

Probe Volume (ml): 80

Purge Volume (liters): 400ml

Purge Time: 2 sec

Notes:

Max. Purge Vacuum (in. Hg): 13

Equilibrium Time: 2 sec

Sample Volume (ml): 20

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-21-95 Time: 16 PS 1700

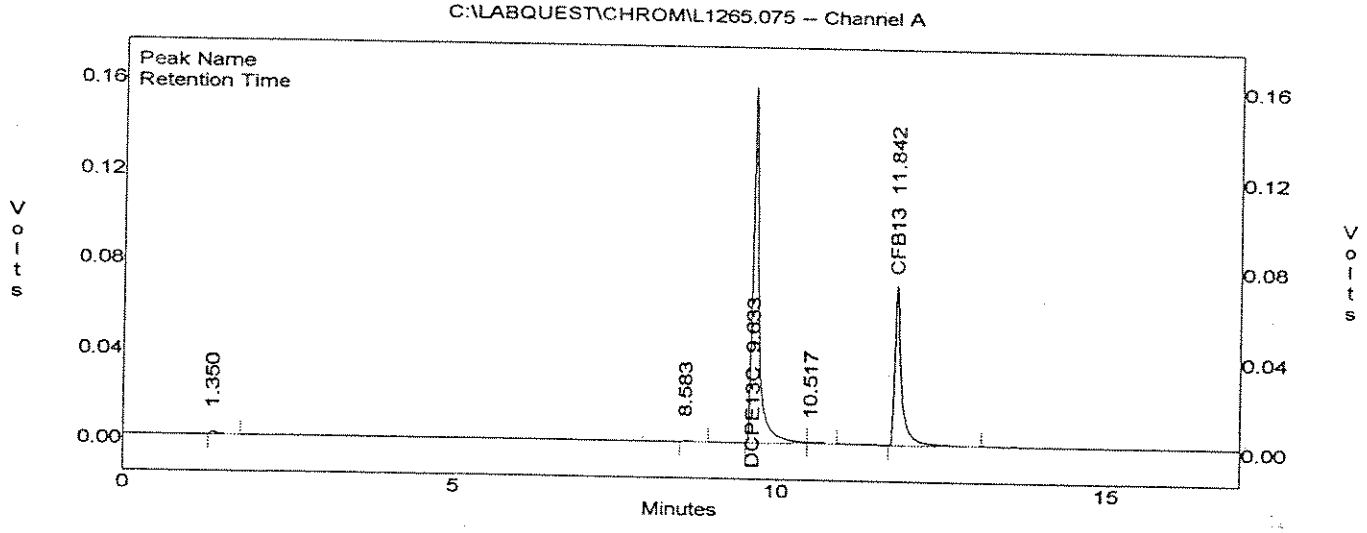
Volume Analyzed (ml): 1.0

Time Injected: 1716 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 92 90 % PID: 82 83 % FID: 101 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.075
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-6-5
Acquired : Dec 21, 1995 17:17:41
Printed : Dec 21, 1995 17:35:02
User : PAS



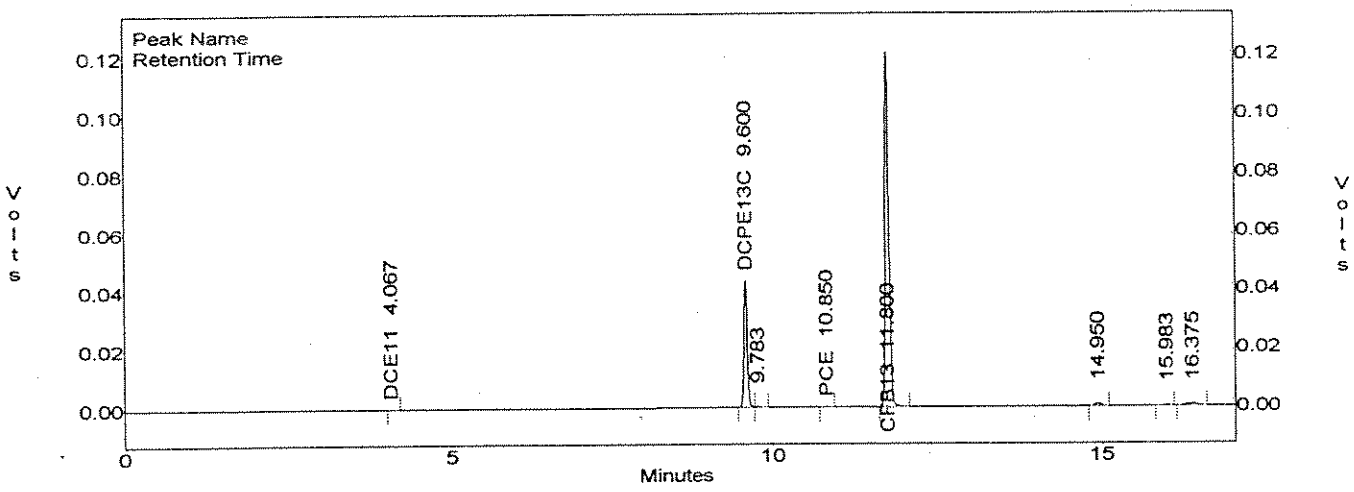
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	9864	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
--	TCE	8.220	0	0.000	0
2		8.583	4268	0.000	0
3	DCPE13C	9.633	1089795	921.061	0
4		10.517	7094	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
5	CFB13	11.842	511075	895.152	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1622098	1816.213	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.075
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-6-5
Acquired : Dec 21, 1995 17:17:41
Printed : Dec 21, 1995 17:35:05
User : PAS

C:\LABQUEST\CHROM\L1265.075 -- Channel B

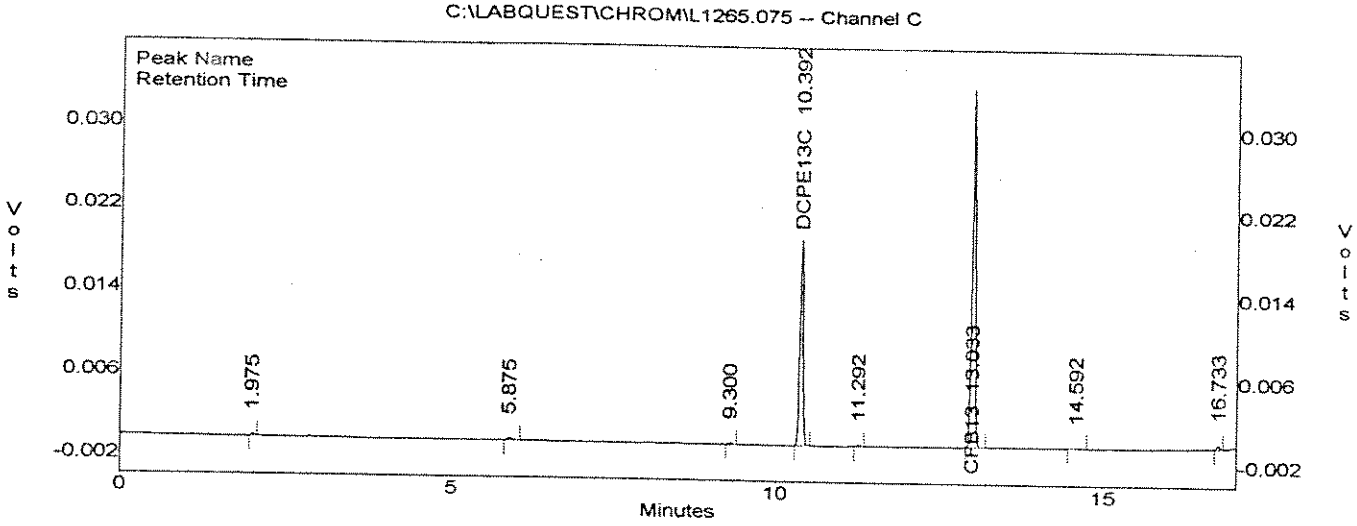


Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.067	611	0 ~~.212~~ PS	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.600	161768	818.627	0
3		9.783	1459	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.850	585	0 ~~.190~~ PS	0
5	CFB13	11.800	488440	827.034	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.950	6631	0.000	0
7		15.983	1303	0.000	0
8		16.375	7532	0.000	0

Totals : 668332 1646.063

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.075
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-6-5
Acquired : Dec 21, 1995 17:17:41
Printed : Dec 21, 1995 17:35:07
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.975	656	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.875	1206	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.300	587	0.000	0
--	TCE	9.520	0	0.000	0
4	DCPE13C	10.392	66553	1009.783	0
--	TCA112	11.110	0	0.000	0
5		11.292	604	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
6	CFB13	13.033	121429	1004.853	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
7		14.592	572	0.000	0
--	XYLO	14.830	0	0.000	0
8		16.733	1272	0.000	0
Totals :			192881	2014.635	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-5-5

Time Sampled: 1710

Date Sampled: 12-21-95

Probe Depth (ft): 5

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Air Temp (F): 66

Ground Surface: Asphalt

Wind dir/speed: South/1mph

Sample Parameters

Probe Volume (ml): 80

Purge Volume (liters): 400ml

Purge Time: 2sec

Notes:

Max. Purge Vacuum (in. Hg): 12

Equilibrium Time: 2sec

Sample Volume (ml): 20

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-21-95 Time: 1717

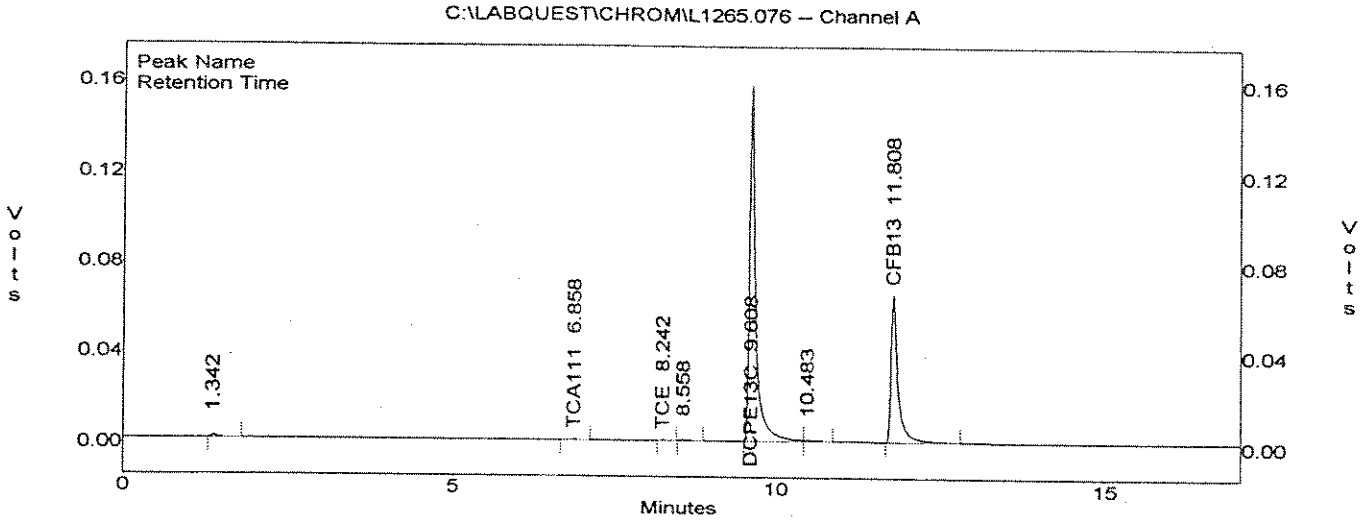
Volume Analyzed (ml): 1.0

Time Injected: 1738 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 92 84 % PID: 81 81 % FID: 100 99 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.076
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-5-5
Acquired : Dec 21, 1995 17:40:18
Printed : Dec 21, 1995 17:57:33
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.342	8369	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
2	TCA111	6.858	1869	0.179	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.242	1375	0.130	0
4		8.558	4043	0.000	0
5	DCPE13C	9.608	1083663	915.879	0
6		10.483	7073	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
7	CFB13	11.808	481112	842.671	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

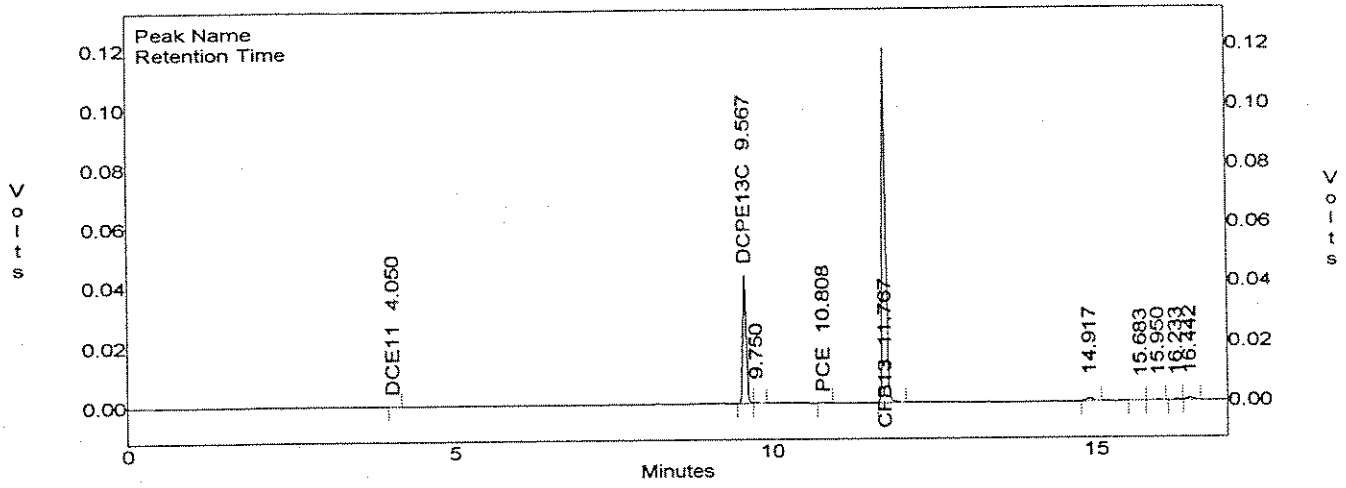
Totals :

	1587507	1758.859

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.076
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-5-5
Acquired : Dec 21, 1995 17:40:18
Printed : Dec 21, 1995 17:57:35
User : PAS

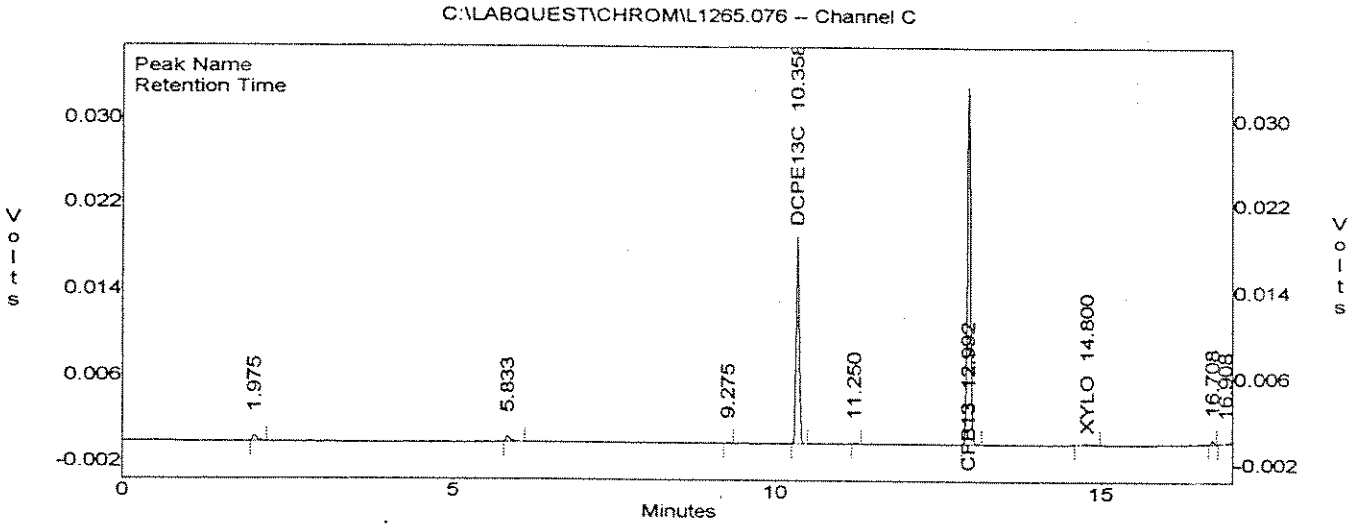
C:\LABQUEST\CHROM\L1265.076 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.050	637	0.221	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.567	159507	807.182	0
3		9.750	1401	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.808	571	0.186	0
5	CFB13	11.767	478556	810.299	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.917	6555	0.000	0
7		15.683	613	0.000	0
8		15.950	2259	0.000	0
9		16.233	2301	0.000	0
10		16.442	5925	0.000	0
Totals :			658329	1617.888	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.076
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-5-5
Acquired : Dec 21, 1995 17:40:18
Printed : Dec 21, 1995 17:57:37
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.975	2841	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.833	2872	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.275	536	0.000	0
--	TCE	9.520	0	0.000	0
4	DCPE13C	10.358	66224	1004.798	0
--	TCA112	11.110	0	0.000	0
5		11.250	557	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
6	CFB13	12.992	120170	994.434	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
7	XYLO	14.800	1049	0.617	0
8		16.708	1301	0.000	0
9		16.908	500	0.000	0
Totals :			196053	1999.850	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: TB 21 Dec 95

Time Sampled: 0835

Date Sampled: 12-21-95

Probe Depth (ft): —

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: —

Air Temp (F): —

Ground Surface: —

Wind dir/speed: —

Sample Parameters

Probe Volume (ml): —

Purge Volume (liters): —

Purge Time: —

Notes:

Max. Purge Vacuum (in. Hg): —

Equilibrium Time: —

Sample Volume (ml): 10

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-21-95 Time: 1717

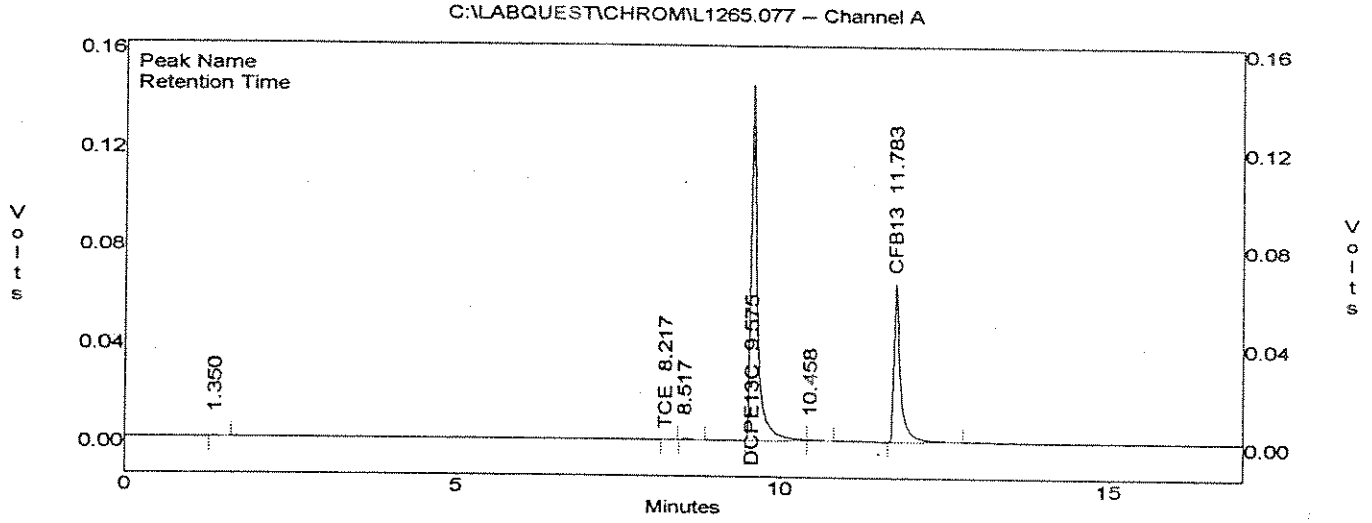
Volume Analyzed (ml): 1.0

Time Injected: 1800 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 84 80 % PID: 80 80 % FID: 101 99 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.077
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : TB21DEC95
Acquired : Dec 21, 1995 18:02:53
Printed : Dec 21, 1995 18:20:19
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	2231	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.217	644	0.061	0
3		8.517	3794	0.000	0
4	DCPE13C	9.575	990693	837.303	0
5		10.458	5599	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
6	CFB13	11.783	457789	801.820	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

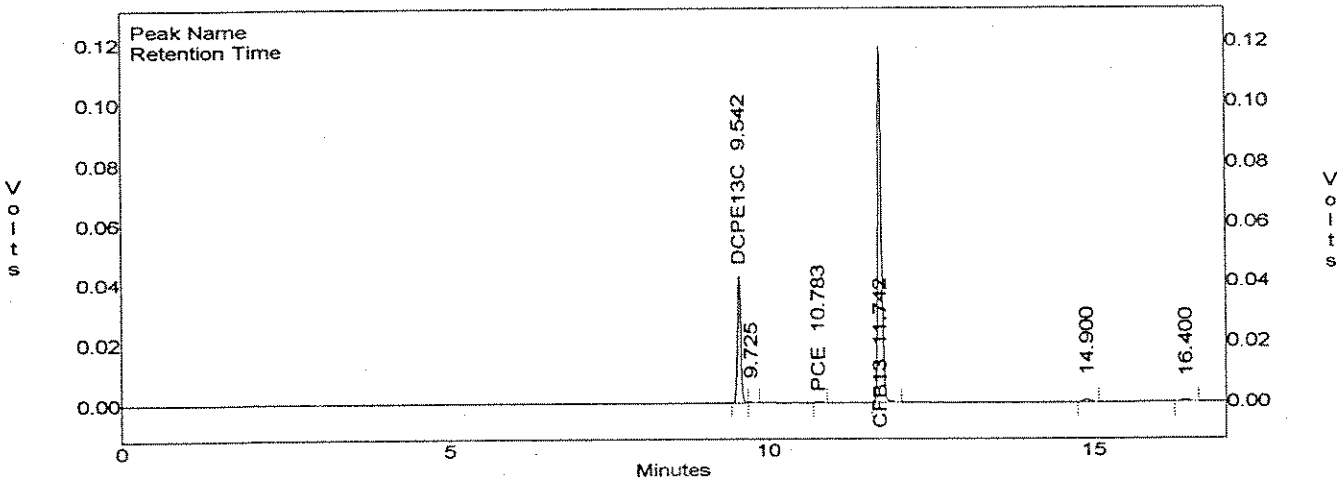
Totals :

1460751 1639.184

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.077
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : TB21DEC95
Acquired : Dec 21, 1995 18:02:53
Printed : Dec 21, 1995 18:20:23
User : PAS

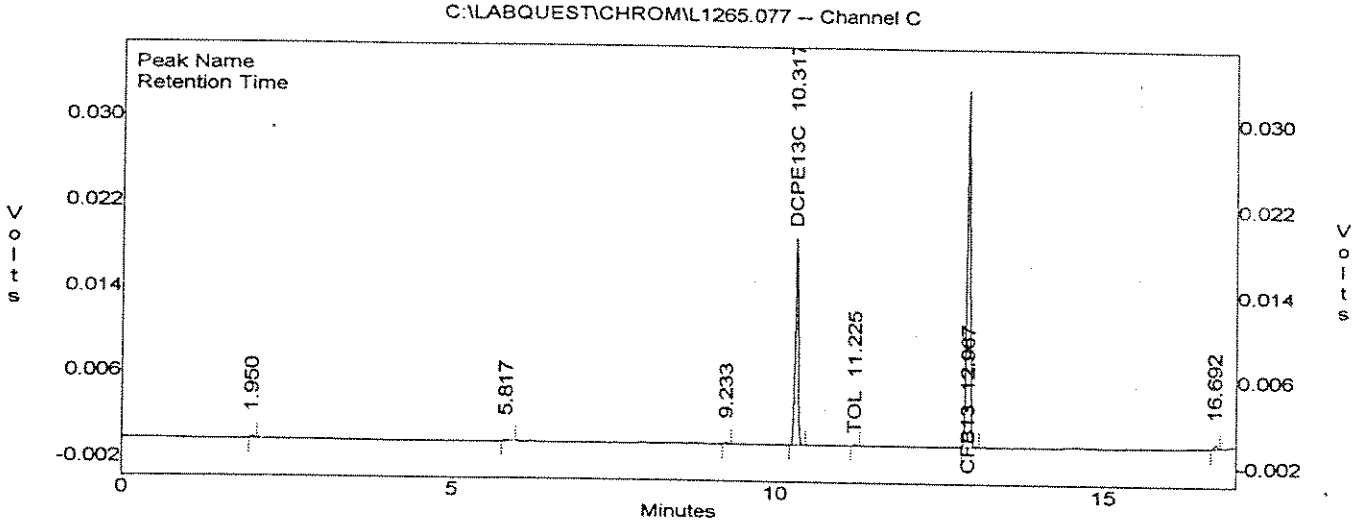
C:\LABQUEST\CHROM\L1265.077 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
--	DCE11	3.890	0	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
1	DCPE13C	9.542	158408	801.624	0
2		9.725	1316	0.000	0
--	TOL	10.050	0	0.000	0
3	PCE	10.783	503	~~0.164~~ ppb	0
4	CFB13	11.742	474140	802.821	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
5		14.900	6188	0.000	0
6		16.400	4882	0.000	0
Totals :			645439	1604.609	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.077
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : TB21DEC95
Acquired : Dec 21, 1995 18:02:53
Printed : Dec 21, 1995 18:20:25
User : PAS



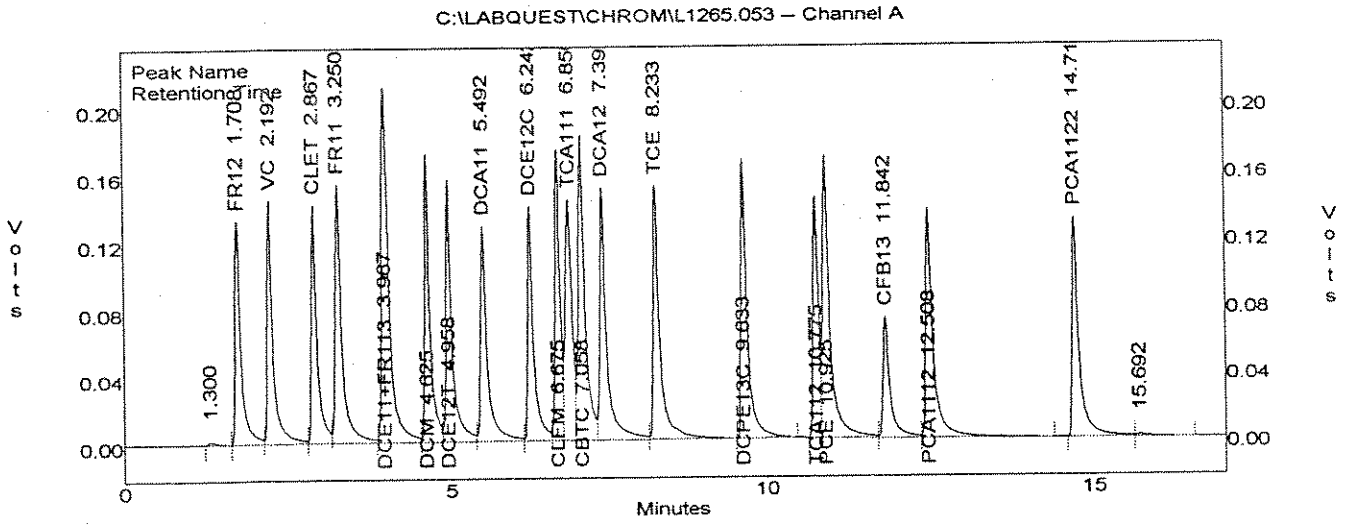
Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.950	761	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.817	605	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.233	546	0.000	0
--	TCE	9.520	0	0.000	0
4	DCPE13C	10.317	66391	1007.332	0
--	TCA112	11.110	0	0.000	0
5	TOL	11.225	571	0.378	0
--	PCE	12.710	0	0.000	0
6	CFB13	12.967	120066	993.574	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
7		16.692	1223	0.000	0

Totals :

190164 2001.284

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.053
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 1000UL CAL9517 (LCS)
Acquired : Dec 21, 1995 07:48:50
Printed : Dec 21, 1995 08:06:14
User : PAS

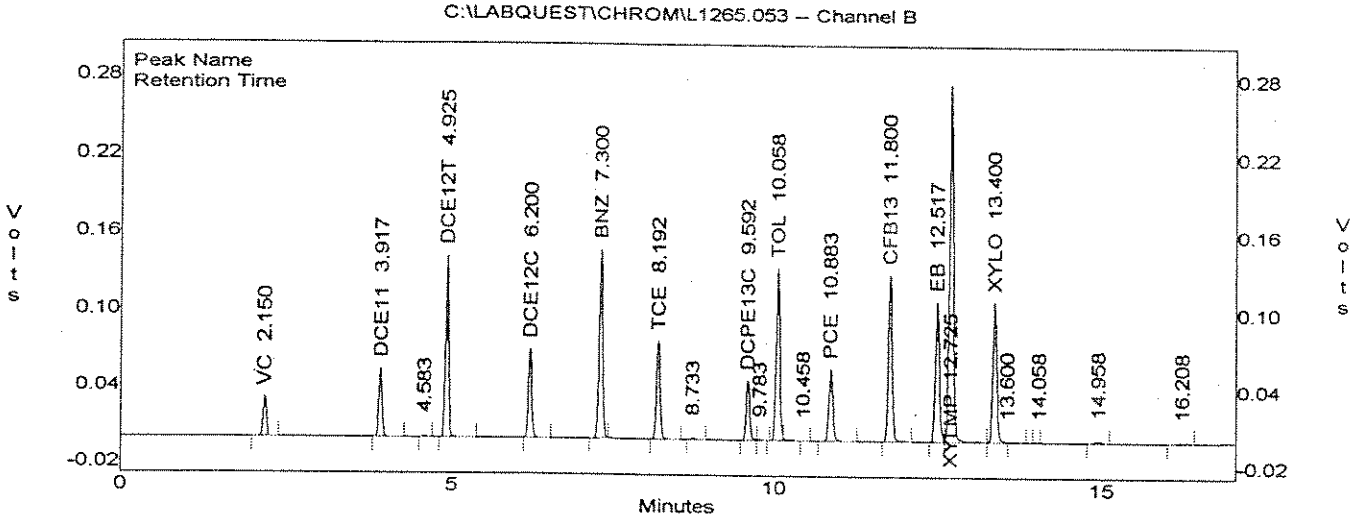


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.300	16978	0.000	0
2	FR12	1.708	813982	0.114	0
3	VC	2.192	932891	0.134	0
4	CLET	2.867	864499	0.136	0
5	FR11	3.250	1142042	0.104	0
6	DCE11+FR113	3.967	1708157	0.236	0
7	DCM	4.625	989699	0.106	0
8	DCE12T	4.958	1010668	0.106	0
9	DCA11	5.492	968215	0.094	0
10	DCE12C	6.242	919209	0.102	0
11	CLFM	6.675	981142	0.085	0
12	TCA111	6.850	1021574	0.098	0
13	CBTC	7.058	1412604	0.115	0
14	DCA12	7.392	1136458	0.112	0
15	TCE	8.233	1133412	0.107	0
16	DCPE13C	9.633	1136987	0.961	0
17	TCA112	10.775	777693	0.042	0
18	PCE	10.925	1378282	0.091	0
19	CFB13	11.842	533617	0.935	0
20	PCA1112	12.508	1075504	0.100	0
21	PCA1122	14.717	1003881	0.101	0
22		15.692	24047	0.000	0
Totals :			20981552	3.879	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.053
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 1000UL CAL9517 (LCS
Acquired : Dec 21, 1995 07:48:50
Printed : Dec 21, 1995 08:06:18
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1	VC	2.150	108303	0.110	0
2	DCE11	3.917	200347	0.070	0
3		4.583	4026	0.000	0
4	DCE12T	4.925	472020	0.079	0
5	DCE12C	6.200	248616	0.075	0
6	BNZ	7.300	576109	0.087	0
7	TCE	8.192	299276	0.080	0
8		8.733	4620	0.000	0
9	DCPE13C	9.592	177692	0.899	0
10		9.783	1679	0.000	0
11	TOL	10.058	541926	0.098	0
12		10.458	671	0.000	0
13	PCE	10.883	241378	0.078	0
14	CFB13	11.800	526529	0.892	0
15	EB	12.517	464759	0.083	0
16	XYLMP	12.725	1181537	0.202	0
17	XYLO	13.400	471187	0.082	0
18		13.600	2798	0.000	0
19		14.058	4831	0.000	0
20		14.958	9450	0.000	0
21		16.208	4842	0.000	0

Totals :

	5542604	2.834

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: SV-29-5

Probe Depth (ft): 5

Time Sampled: 1456

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Soil

Air Temp (F): 70

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 15

Purge Volume (liters): 400ml

Equilibrium Time: 2sec

Purge Time: 2 sec.

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

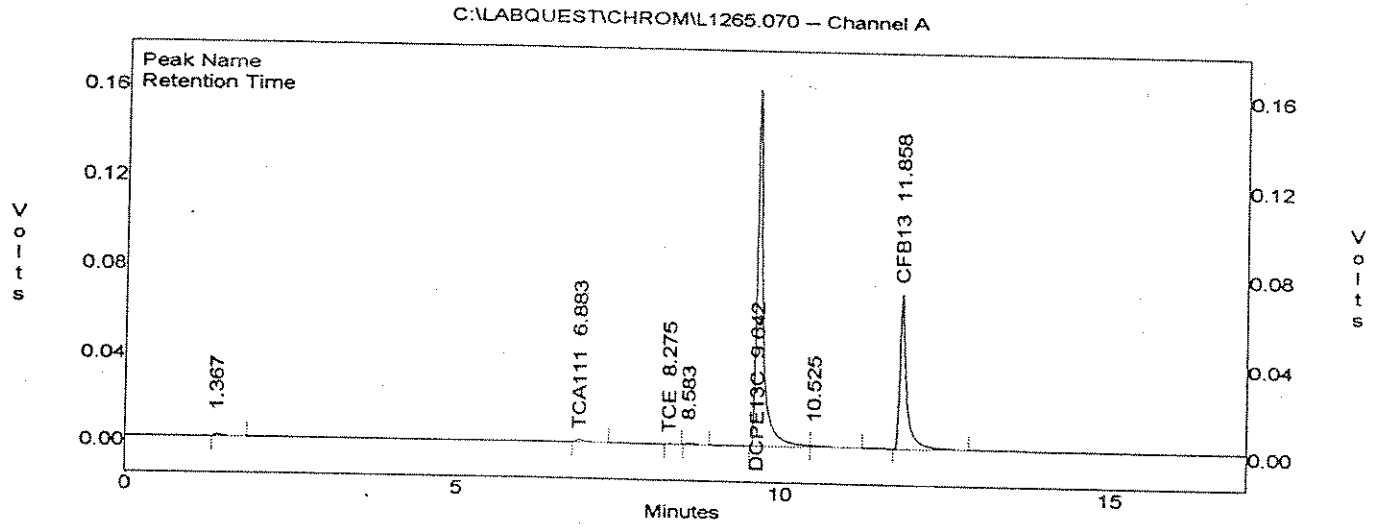
Date: 12-21-95 Time: 1508

Time Injected: 1521 Loop #: manu

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	1.0				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 92 88 % PID: 84 85 % FID: 101 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.070
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-29-5
Acquired : Dec 21, 1995 15:22:31
Printed : Dec 21, 1995 15:39:47
User : PAS

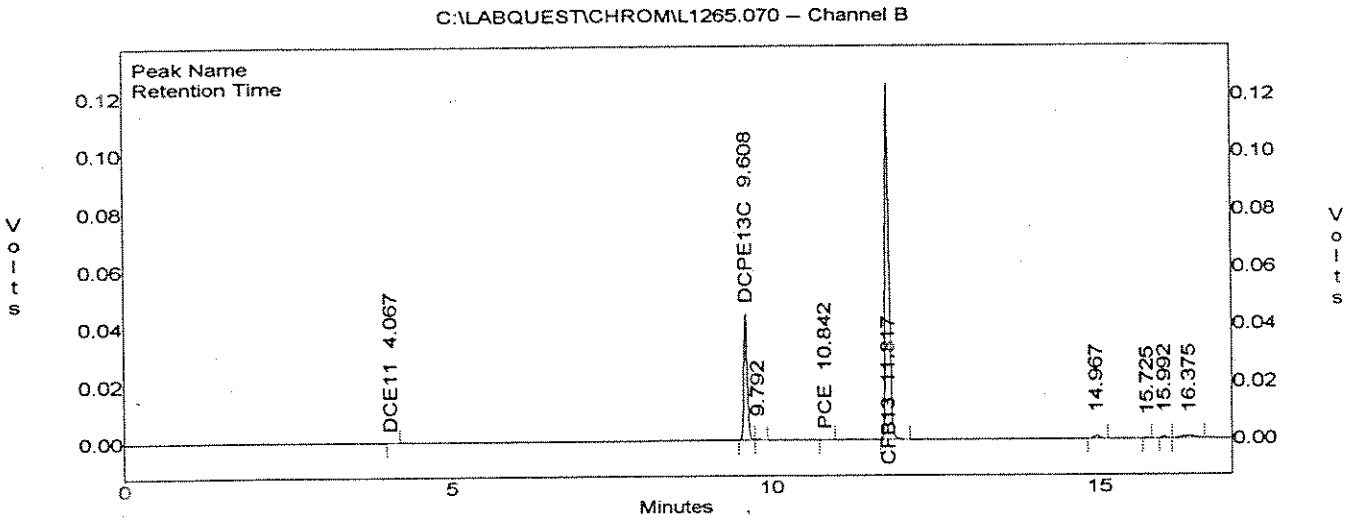


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.367	8702	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
2	TCA111	6.883	10140	0.972	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.275	900	0.085	0
4		8.583	4811	0.000	0
5	DCPE13C	9.642	1091661	922.638	0
6		10.525	13484	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
7	CFB13	11.858	503438	881.775	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1633139	1805.471	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

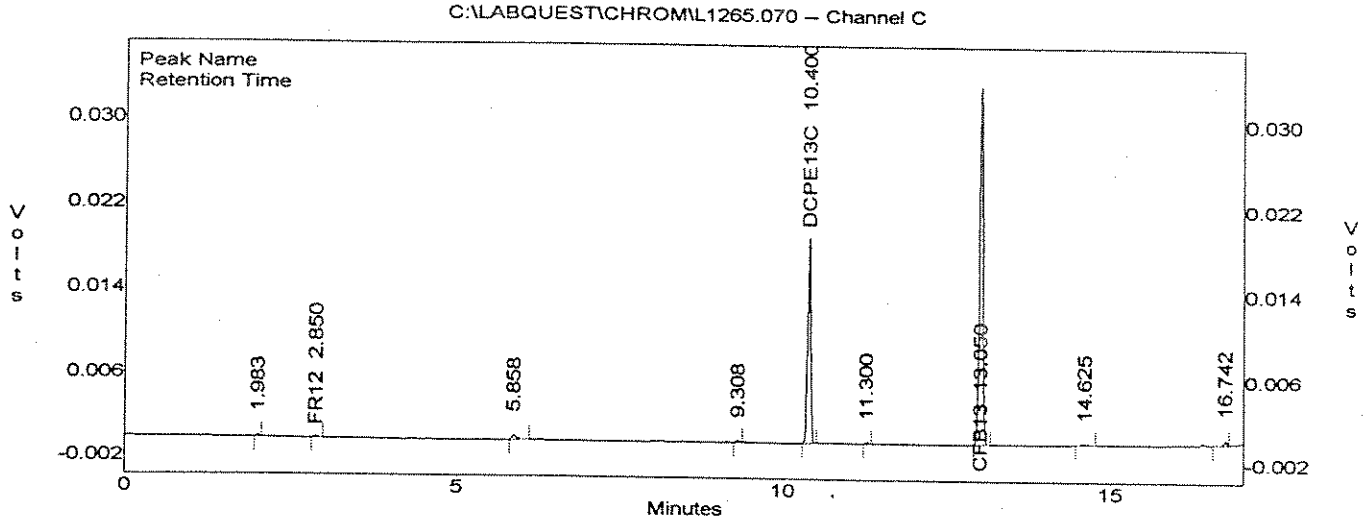
File : C:\LABQUEST\CHROM\L1265.070
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-29-5
Acquired : Dec 21, 1995 15:22:31
Printed : Dec 21, 1995 15:39:50
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.067	733	0.255	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.608	166020	840.143	0
3		9.792	1405	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.842	654	0.213	0
5	CFB13	11.817	502118	850.193	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.967	7569	0.000	0
7		15.725	857	0.000	0
8		15.992	3013	0.000	0
9		16.375	10667	0.000	0
Totals :			693040	1690.804	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.070
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-29-5
Acquired : Dec 21, 1995 15:22:31
Printed : Dec 21, 1995 15:39:51
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.983	682	0.000	0
2	FR12	2.850	567	~~1.096~~ P3	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
3		5.858	2315	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
4		9.308	572	0.000	0
--	TCE	9.520	0	0.000	0
5	DCPE13C	10.400	66269	1005.474	0
--	TCA112	11.110	0	0.000	0
6		11.300	582	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
7	CFB13	13.050	121250	1003.367	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
8		14.625	652	0.000	0
--	XYLO	14.830	0	0.000	0
9		16.742	1556	0.000	0

Totals :

	194446	2009.938

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: SV-12-5

Time Sampled: 1515

Date Sampled: 12-21-95

Probe Depth (ft): 5

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Air Temp (F): 70

Ground Surface: Soil

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Purge Volume (liters): 400ml

Purge Time: 2sec

Notes:

Max. Purge Vacuum (in. Hg): 12

Equilibrium Time: 2sec

Sample Volume (ml): 20

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-21-95 Time: ~~1508~~ 1528

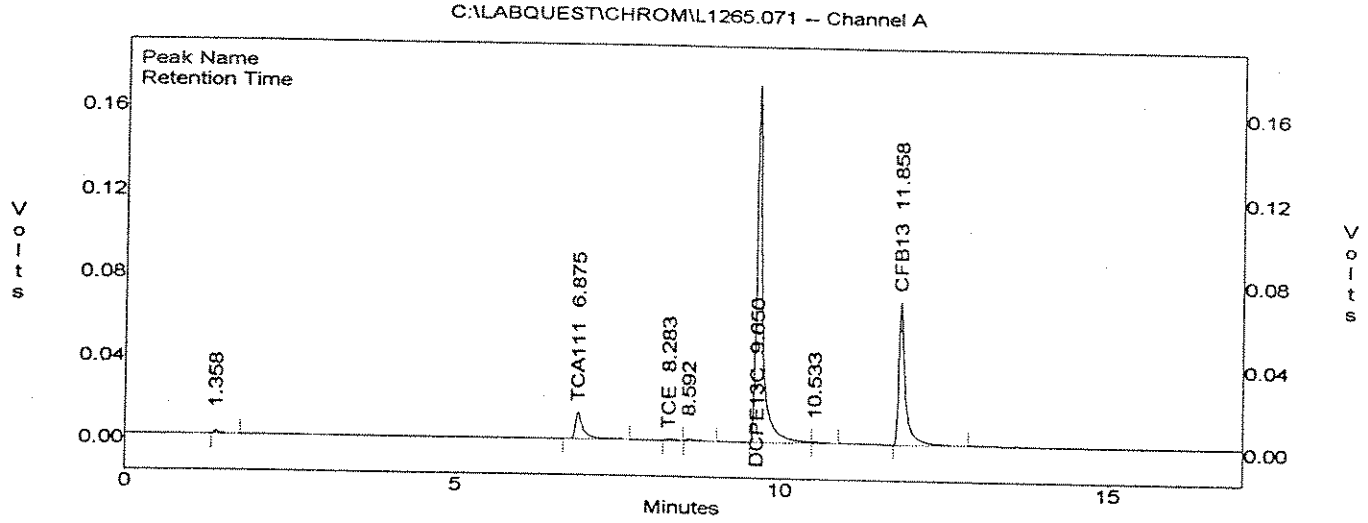
Volume Analyzed (ml): 1.0

Time Injected: 1543 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	11 ✓				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 96 87 % PID: 83 85 % FID: 101 101 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.071
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-12-5
Acquired : Dec 21, 1995 ~~08~~ 15:45:09
Printed : Dec 21, 1995 16:09:18
User : PAS



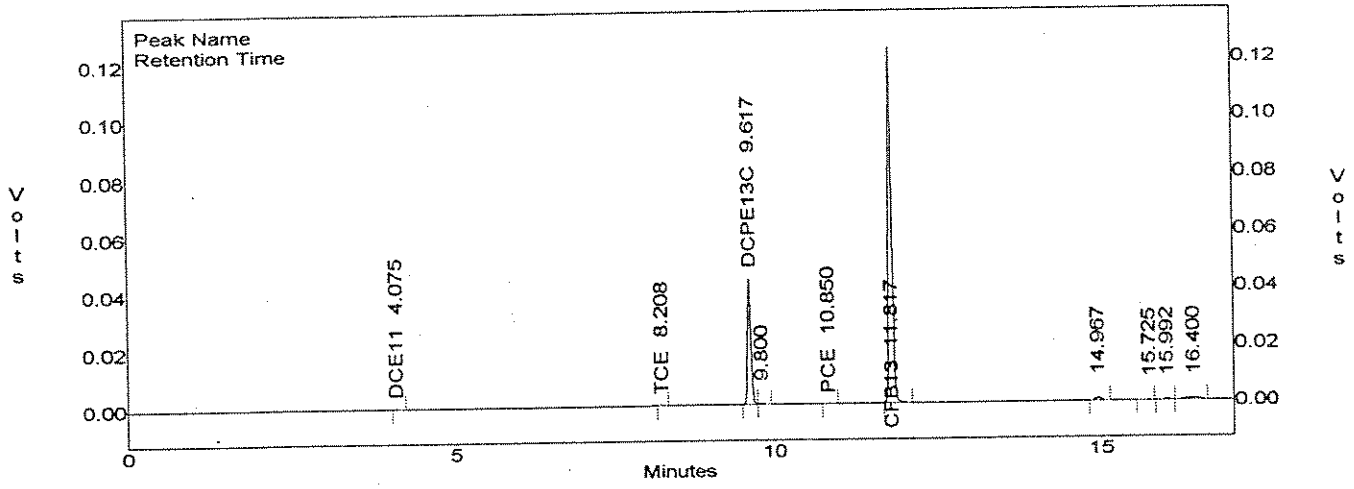
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.358	9486	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
2	TCA111	6.875	112185	10.751	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.283	3852	0.365	0
4		8.592	6358	0.000	0
5	DCPE13C	9.650	1139702	963.241	0
6		10.533	6315	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
7	CFB13	11.858	499117	874.206	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1777018	1848.563	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.071
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-12-5
Acquired : Dec 21, 1995 03:45:09
Printed : Dec 21, 1995 16:09:22
User : PAS

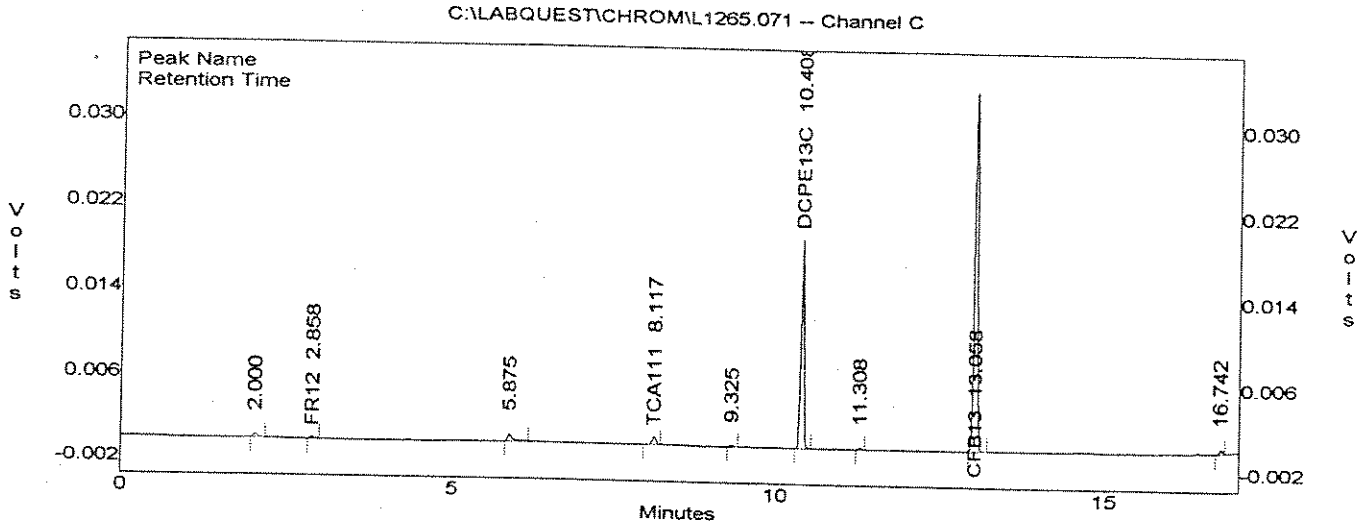
C:\LABQUEST\CHROM\L1265.071 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.075	1052	0.~~365~~ 85	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
2	TCE	8.208	945	0.~~251~~ 85	0
3	DCPE13C	9.617	164927	834.614	0
4		9.800	1493	0.000	0
--	TOL	10.050	0	0.000	0
5	PCE	10.850	724	0.~~236~~ 85	0
6	CFB13	11.817	499348	845.503	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
7		14.967	7309	0.000	0
8		15.725	606	0.000	0
9		15.992	2059	0.000	0
10		16.400	8759	0.000	0
Totals :			687224	1680.969	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.071
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-12-5
Acquired : Dec 21, 1995 03:45:09
Printed : Dec 21, 1995 16:09:24
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.000	1763	0.000	0
2	FR12	2.858	731	1.414	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
3		5.875	3799	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
4	TCA111	8.117	3425	11.311	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
5		9.325	595	0.000	0
--	TCE	9.520	0	0.000	0
6	DCPE13C	10.408	66582	1010.223	0
--	TCA112	11.110	0	0.000	0
7		11.308	606	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
8	CFB13	13.058	121778	1007.741	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
9		16.742	1367	0.000	0
Totals :			200647	2030.688	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-11-5

Probe Depth (ft): 5

Time Sampled: 1531

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Soil

Air Temp (F): 70

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 14

Purge Volume (liters): 400 ml

Equilibrium Time: 2 sec

Purge Time: 1 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Sahuman

Volume Analyzed (ml): 1.0

Date: 12-21-95 Time: 1540

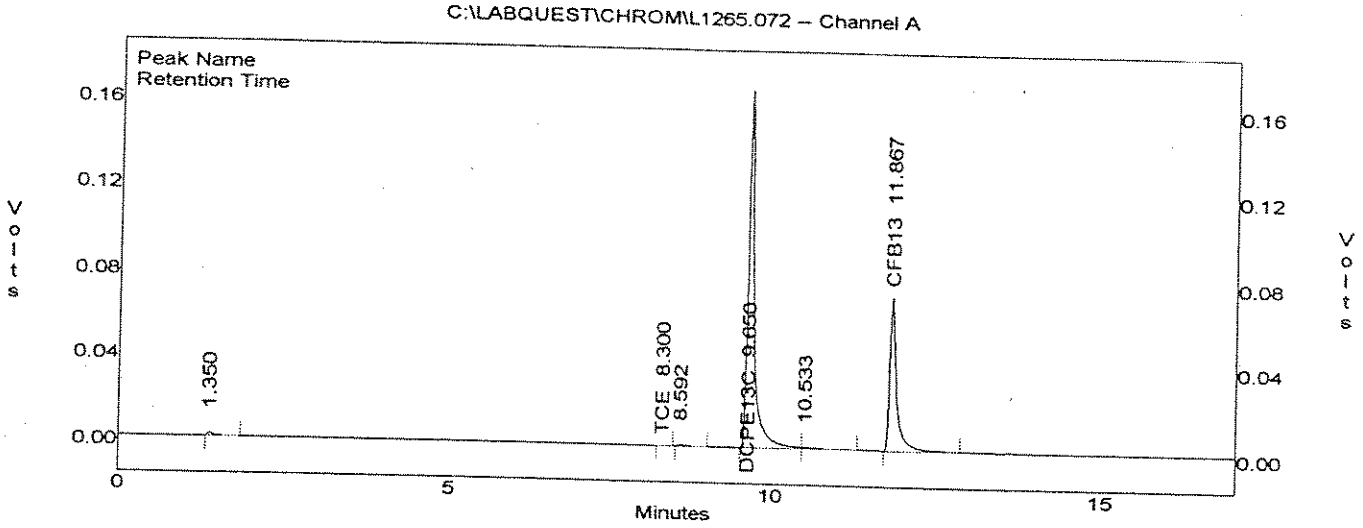
Time Injected: 1608

Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12			Tetrachloroethene		
Vinyl Chloride			1,1,1,2 PCA		
Chloroethane			1,1,2,2 PCA		
Freon 11			1,1-Dichloroethene		
Dichloromethane			Benzene		
trans-1,2-Dichloroethene			Toluene		
1,1-Dichloroethane			Ethyl Benzene		
cis-1,2-Dichloroethene			m/p-xylene		
Chloroform			o-Xylene		
1,1,1-trichloroethane					
Carbon Tetrachloride					
1,2-Dichloroethane			Freon 113		
Trichloroethene					
1,1,2-Trichloroethane					

Surrogate Recovery ELCD: 95 91 % PID: 84 85 % FID: 101 101 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.072
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-11-5
Acquired : Dec 21, 1995 16:08:33
Printed : Dec 21, 1995 16:25:55
User : PAS

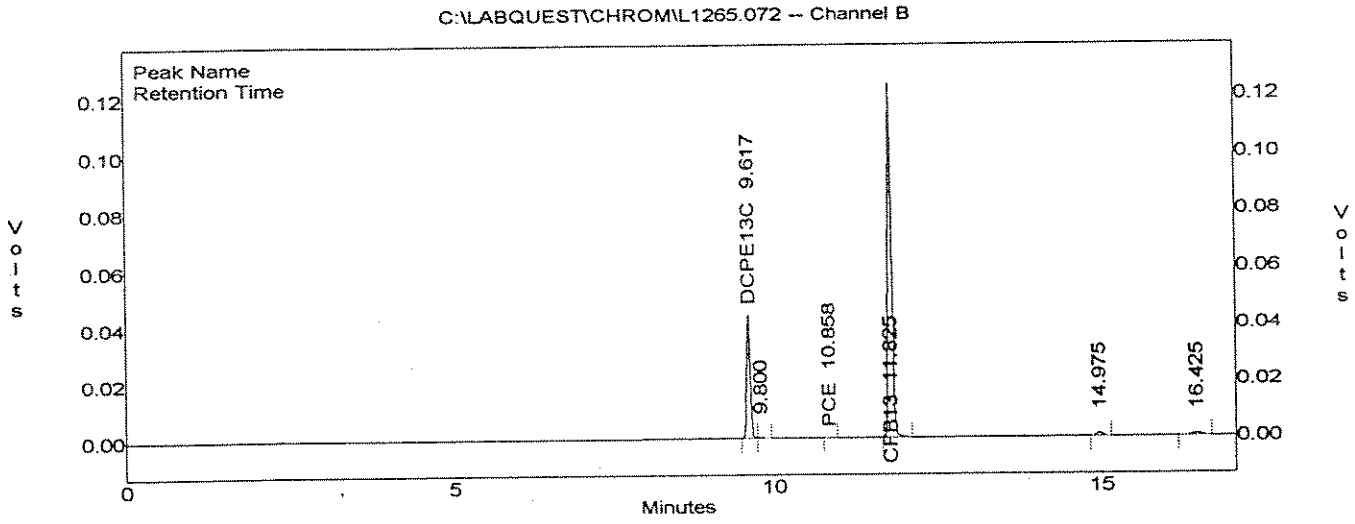


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	11423	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.300	791	0.075	0
3		8.592	4733	0.000	0
4	DCPE13C	9.650	1129739	954.820	0
5		10.533	14402	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
6	CFB13	11.867	519739	910.326	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1680828	1865.221	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

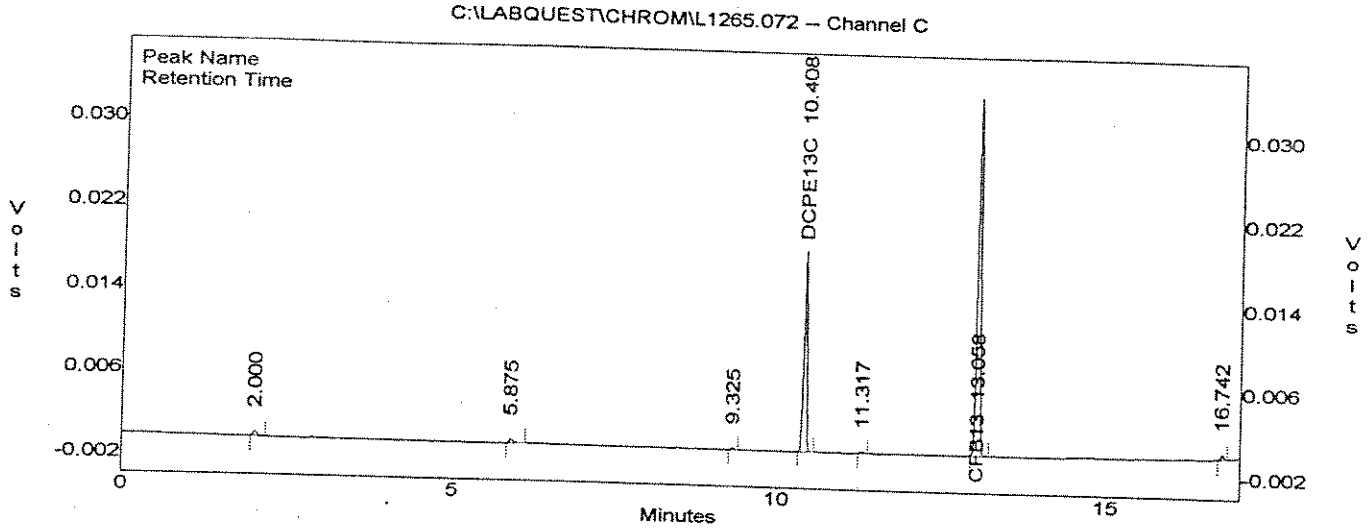
File : C:\LABQUEST\CHROM\L1265.072
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-11-5
Acquired : Dec 21, 1995 16:08:33
Printed : Dec 21, 1995 16:25:58
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
--	DCE11	3.890	0	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
1	DCPE13C	9.617	165126	835.620	0
2		9.800	1498	0.000	0
--	TOL	10.050	0	0.000	0
3	PCE	10.858	615	0.200	0
4	CFB13	11.825	499477	845.721	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
5		14.975	8226	0.000	0
6		16.425	6604	0.000	0
Totals :			681549	1681.541	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.072
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-11-5
Acquired : Dec 21, 1995 16:08:33
Printed : Dec 21, 1995 16:25:59
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.000	2048	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.875	1858	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.325	595	0.000	0
--	TCE	9.520	0	0.000	0
4	DCPE13C	10.408	66490	1008.831	0
--	TCA112	11.110	0	0.000	0
5		11.317	580	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
6	CFB13	13.058	121853	1008.362	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
7		16.742	1556	0.000	0
Totals :			194982	2017.192	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-8-5

Time Sampled: 1432

Date Sampled: 12-21-95

Probe Depth (ft): 5

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Air Temp (F): 70

Ground Surface: Soil

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Purge Volume (liters): 400ml

Purge Time: 1sec

Notes:

Max. Purge Vacuum (in. Hg): 15

Equilibrium Time: 2sec

Sample Volume (ml): 20

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-21-95 Time: 1445

Volume Analyzed (ml): 1.0

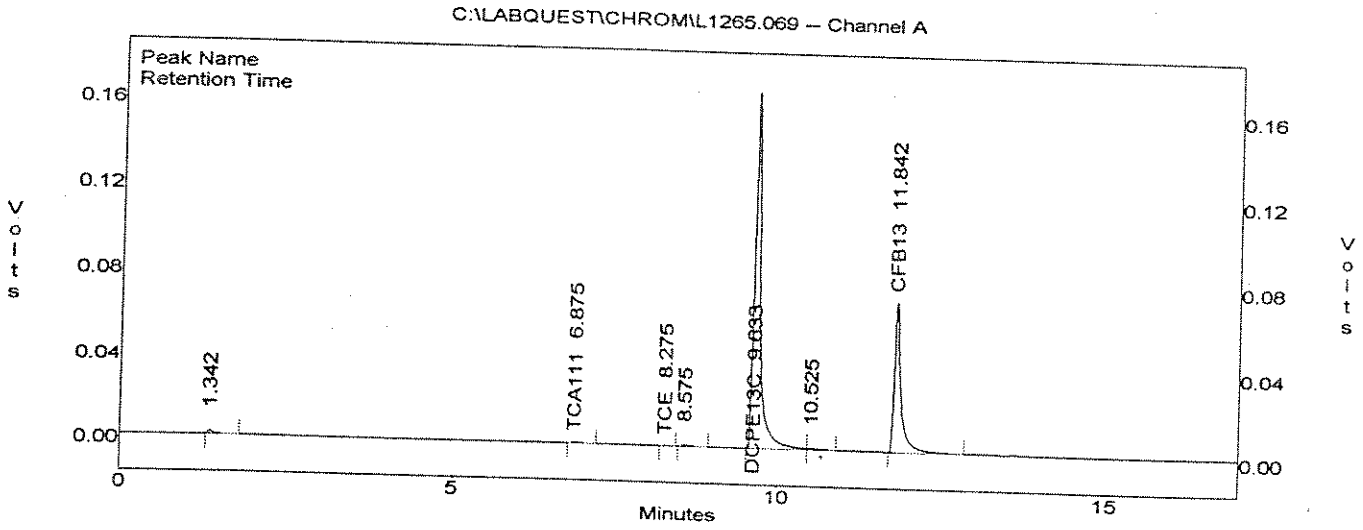
Time Injected:

Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1 (0.6) ✓				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 96 88 % PID: 84 85 % FID: 101 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.069
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-8-5
Acquired : Dec 21, 1995 14:59:05
Printed : Dec 21, 1995 15:16:25
User : PAS



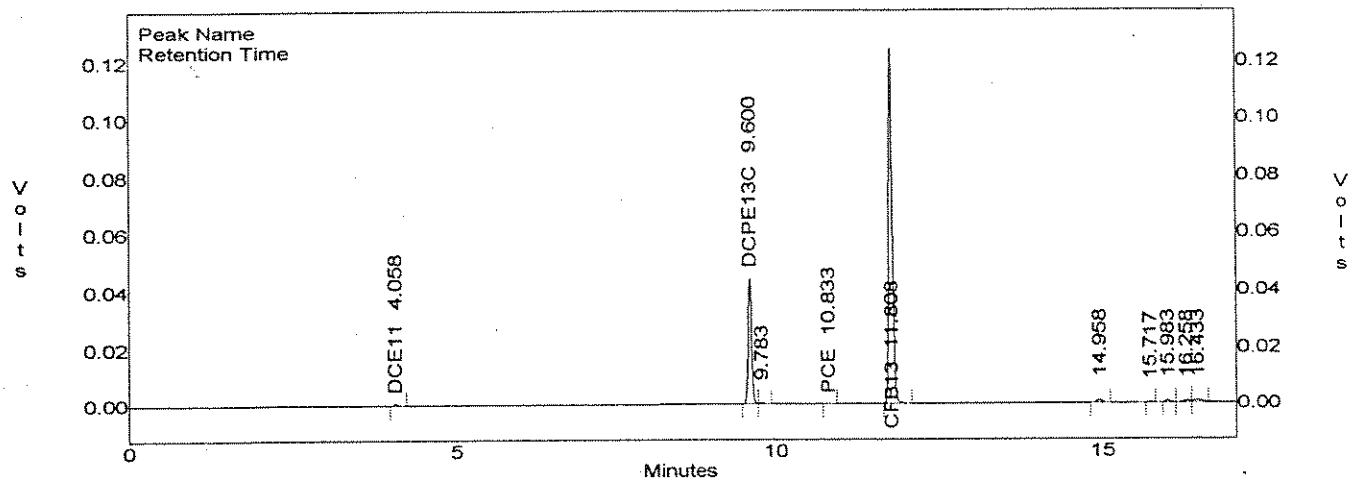
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.342	10330	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
2	TCA111	6.875	5916	0.567	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.275	969	0.092	0
4		8.575	5086	0.000	0
5	DCPE13C	9.633	1132928	957.516	0
6		10.525	6762	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
7	CFB13	11.842	503351	881.623	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1665344	1839.797	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.069
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-8-5
Acquired : Dec 21, 1995 14:59:05
Printed : Dec 21, 1995 15:16:29
User : PAS

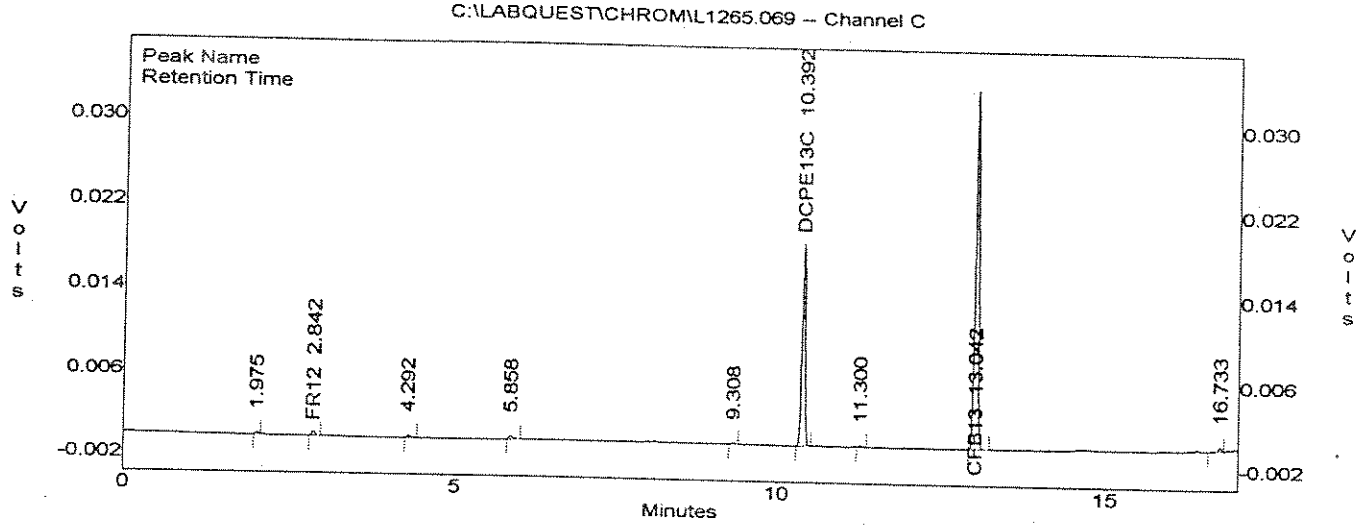
C:\LABQUEST\CHROM\L1265.069 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.058	2724	0 ~~.945~~ PS	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.600	166418	842.159	0
3		9.783	1388	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.833	669	0.218	0
5	CFB13	11.808	503894	853.200	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.958	7138	0.000	0
7		15.717	896	0.000	0
8		15.983	3204	0.000	0
9		16.258	4350	0.000	0
10		16.433	7230	0.000	0
Totals :			697915	1696.522	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.069
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-8-5
Acquired : Dec 21, 1995 14:59:05
Printed : Dec 21, 1995 15:16:31
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.975	830	0.000	0
2	FR12	2.842	1547	~~2.992~~ Not on	0
--	VC	3.640	0	0.000 Hall	0
3		4.292	773	0.000	0
--	CLET	4.450	0	0.000 PS	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
4		5.858	1494	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
5		9.308	539	0.000	0
--	TCE	9.520	0	0.000	0
6	DCPE13C	10.392	66305	1006.031	0
--	TCA112	11.110	0	0.000	0
7		11.300	608	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
8	CFB13	13.042	121325	1003.992	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
9		16.733	1502	0.000	0
Totals :			194925	2013.016	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L1265

Sample I.D.: SV-10-5

Time Sampled: 1559

Date Sampled: 12-21-95

Probe Depth (ft): 5

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Air Temp (F): 67

Ground Surface: Soil

Wind dir/speed: south/1mph

Sample Parameters

Probe Volume (ml): 80

Purge Volume (liters): 400ml

Purge Time: 2 sec.

Notes:

Max. Purge Vacuum (in. Hg): 13

Equilibrium Time: 2sec

Sample Volume (ml): 20

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-21-95 Time: 1608

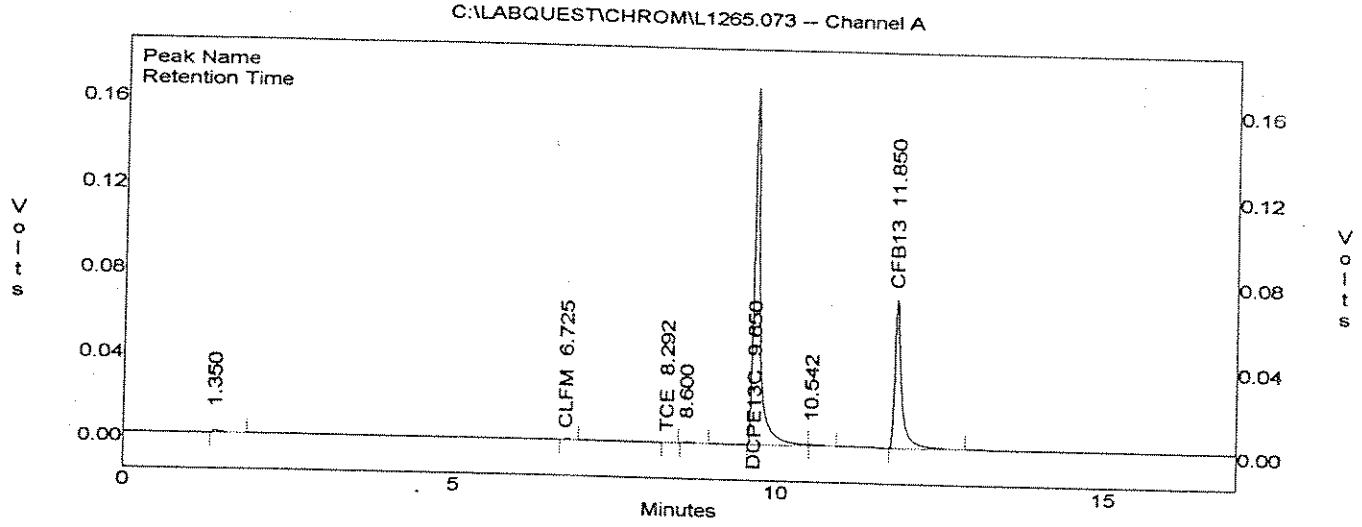
Volume Analyzed (ml): 1.0

Time Injected: 1627 Loop #: manual

Compound	Concentration (ug/l)	Compound	Concentration (ug/l)
Freon 12	<1	Tetrachloroethene	<1
Vinyl Chloride	<1	1,1,1,2 PCA	<1
Chloroethane	<1	1,1,2,2 PCA	<1
Freon 11	<1	1,1-Dichloroethene	<1
Dichloromethane	<1	Benzene	<1
trans-1,2-Dichloroethene	<1	Toluene	<1
1,1-Dichloroethane	<1	Ethyl Benzene	<1
cis-1,2-Dichloroethene	<1	m/p-xylene	<1
Chloroform	<1	o-Xylene	
1,1,1-trichloroethane	<1		
Carbon Tetrachloride	<1		
1,2-Dichloroethane	<1	Freon 113	<1
Trichloroethene	<1		
1,1,2-Trichloroethane	<1		

Surrogate Recovery ELCD: 97 89 % PID: 83 84 % FID: 101 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.073
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-10-5
Acquired : Dec 21, 1995 16:31:49
Printed : Dec 21, 1995 16:49:11
User : PAS



Channel A Results

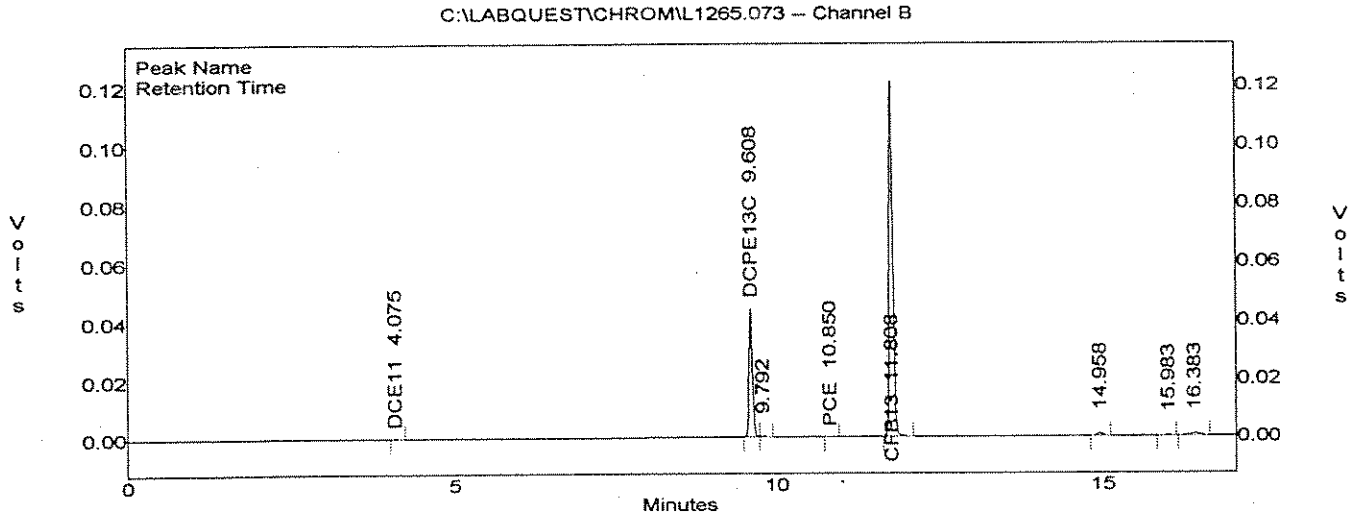
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.350	9640	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
2	CLFM	6.725	2021	0.174	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
3	TCE	8.292	664	0.063	0
4		8.600	4565	0.000	0
5	DCPE13C	9.650	1144640	967.414	0
6		10.542	6152	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
7	CFB13	11.850	508496	890.634	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

1676179 1858.285

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

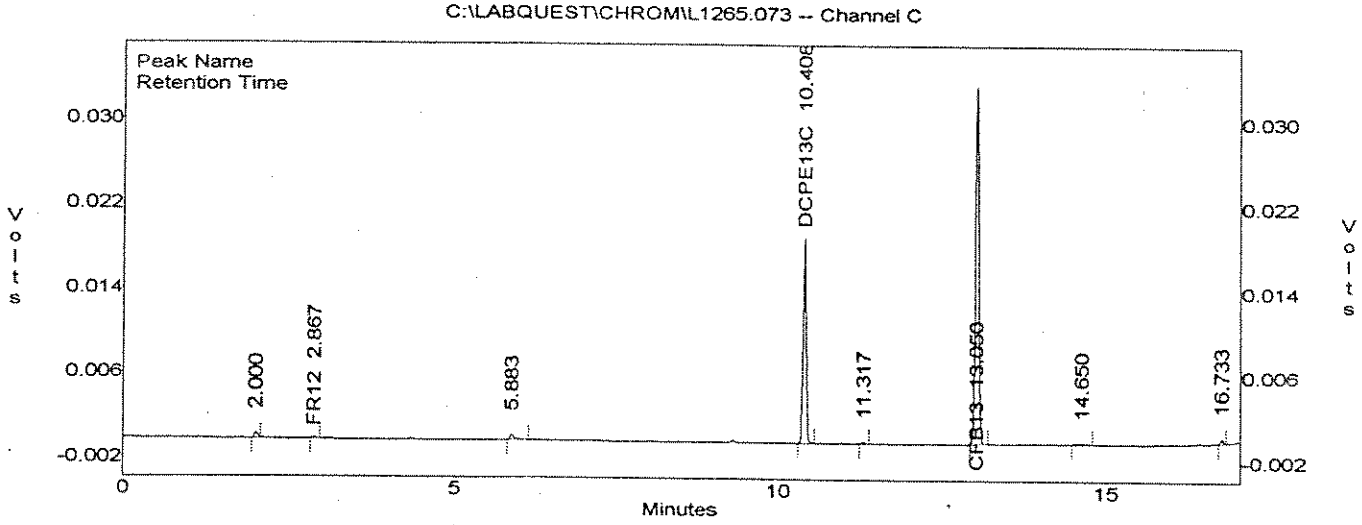
File : C:\LABQUEST\CHROM\L1265.073
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-10-5
Acquired : Dec 21, 1995 16:31:49
Printed : Dec 21, 1995 16:49:15
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.075	1134	~~0.394~~ PS	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.608	163953	829.682	0
3		9.792	1408	0.000	0
--	TOL	10.050	0	0.000	0
4	PCE	10.850	644	0.209	0
5	CFB13	11.808	496031	839.888	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		14.958	7301	0.000	0
7		15.983	1572	0.000	0
8		16.383	8730	0.000	0
Totals :			680776	1670.174	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.073
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-10-5
Acquired : Dec 21, 1995 16:31:49
Printed : Dec 21, 1995 16:49:16
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.000	1996	0.000	0
2	FR12	2.867	524	~~1.013~~ PS	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
3		5.883	2492	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
--	TCE	9.520	0	0.000	0
4	DCPE13C	10.408	66333	1006.452	0
--	TCA112	11.110	0	0.000	0
5		11.317	594	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
6	CFB13	13.050	121168	1002.693	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
7		14.650	771	0.000	0
--	XYLO	14.830	0	0.000	0
8		16.733	1366	0.000	0

Totals :

	195246	2010.158

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-9-5

Probe Depth (ft): 5

Time Sampled: 1626

Sampled by: BV

Date Sampled: 12-21-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Soil

Air Temp (F): 67

Wind dir/speed: South/1mph

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 14

Purge Volume (liters): 400 ml

Equilibrium Time:

Purge Time:

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

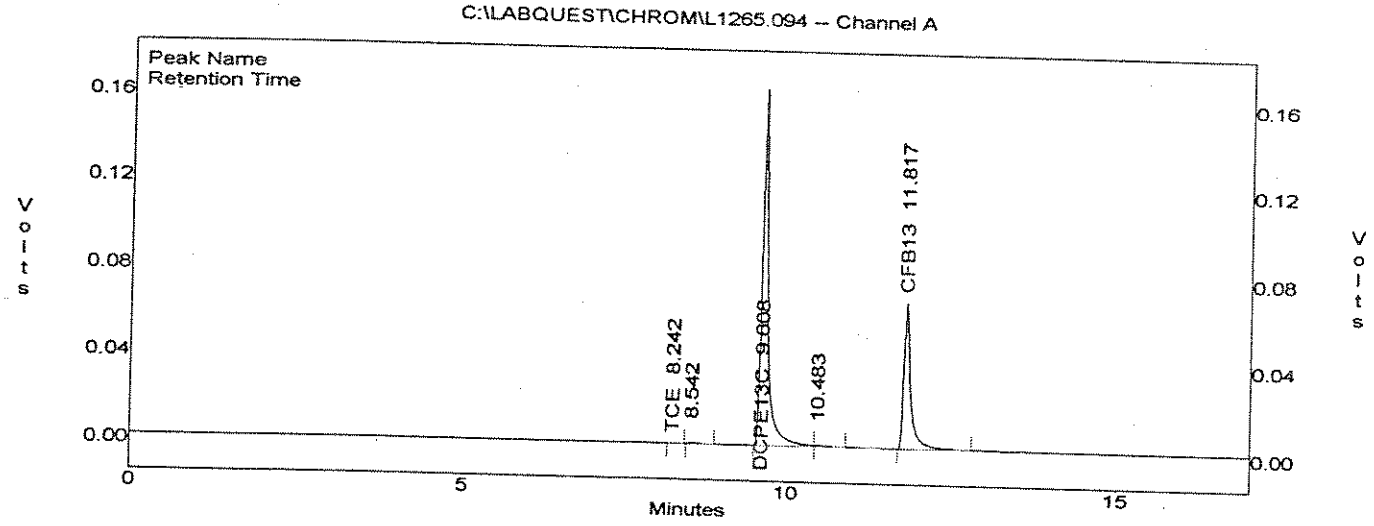
Date: 12-21-95 Time: 1635

Time Injected: 1453 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 93 87 % PID: 82 82 % FID: 101 101 %

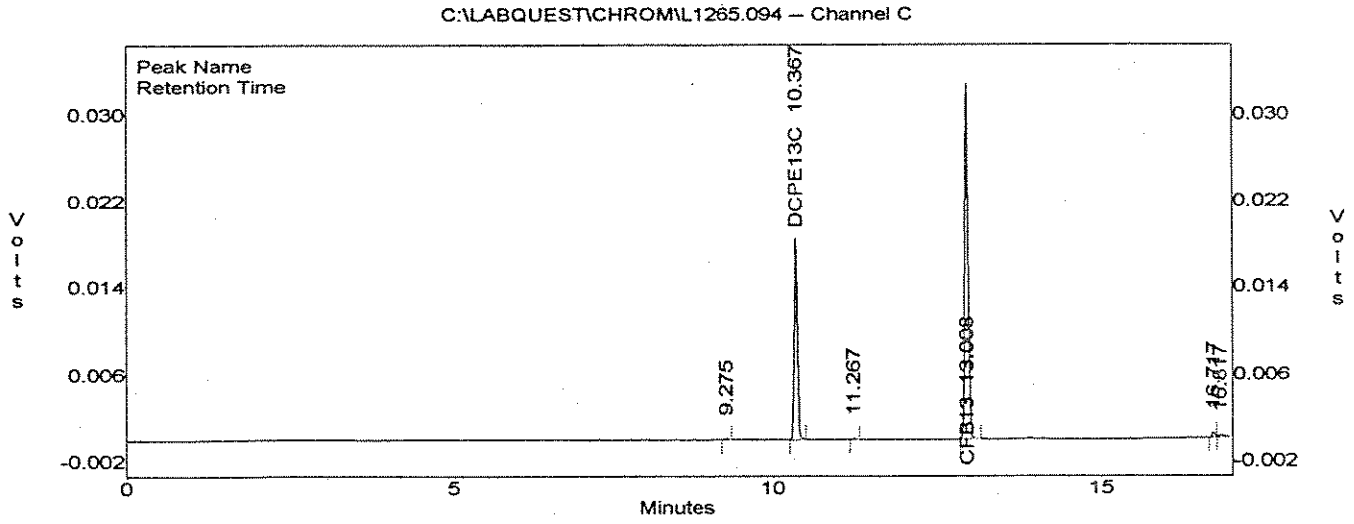
Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.094
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : TB22DEC95
Acquired : Dec 22, 1995 13:18:02
Printed : Dec 22, 1995 13:35:24
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
1	TCE	8.242	903	0.085	0
2		8.542	5224	0.000	0
3	DCPE13C	9.608	1104050	933.109	0
4		10.483	7146	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
5	CFB13	11.817	483788	847.357	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1601111	1780.552	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.094
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : TB22DEC95
Acquired : Dec 22, 1995 13:18:02
Printed : Dec 22, 1995 13:35:29
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
1		9.275	539	0.000	0
--	TCE	9.520	0	0.000	0
2	DCPE13C	10.367	64963	985.666	0
--	TCA112	11.110	0	0.000	0
3		11.267	576	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
4	CFB13	13.008	118357	979.427	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
5		16.717	1372	0.000	0
6		16.817	1386	0.000	0

Totals :

	187194	1965.093

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-35-15

Time Sampled: 1015

Date Sampled: 12-22-95

Probe Depth (ft): 15

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Air Temp (F): 68

Ground Surface: Asphalt

Wind dir/speed: South/1mph

Sample Parameters

Probe Volume (ml): 240

Purge Volume (liters): 1.2

Purge Time: 3 sec.

Notes:

Max. Purge Vacuum (in. Hg): 14

Equilibrium Time: 2 sec

Sample Volume (ml): 20

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-22-95 Time: 1018

Volume Analyzed (ml): 1.0

Time Injected: 1017 Loop #: manual

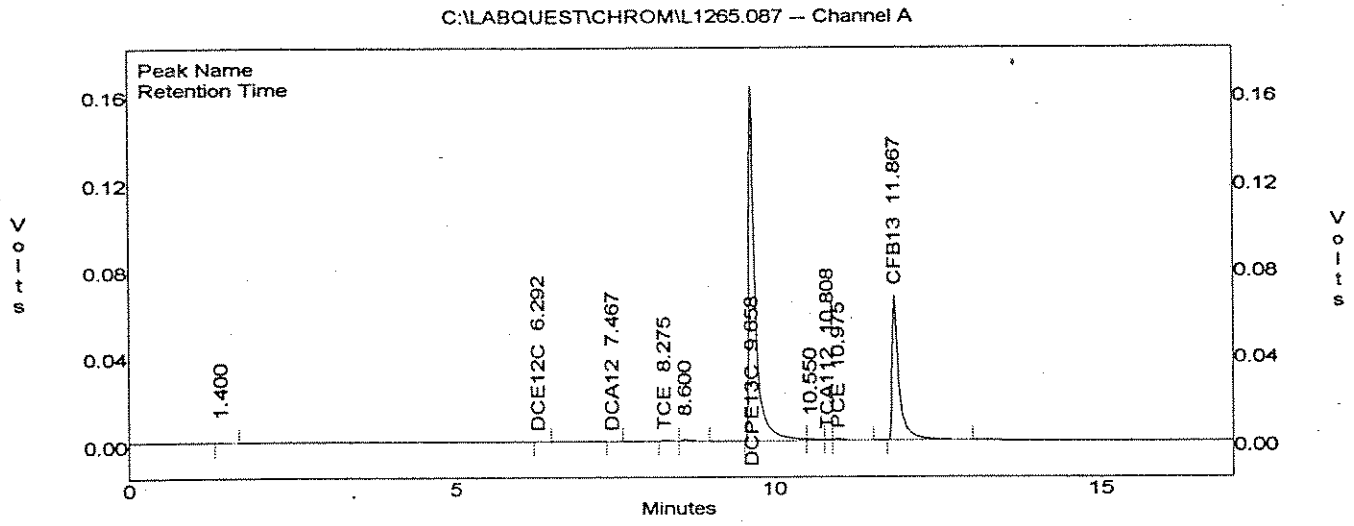
Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 95 88 % PID: 76 77 % FID: 99 101 %

Report PID compounds from FID due to low surrogate recoveries.

BGPAA 0459

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.087
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-35-~~5~~ 15 85
Acquired : Dec 22, 1995 10:17:41
Printed : Dec 22, 1995 10:35:03
User : PAS



Channel A Results

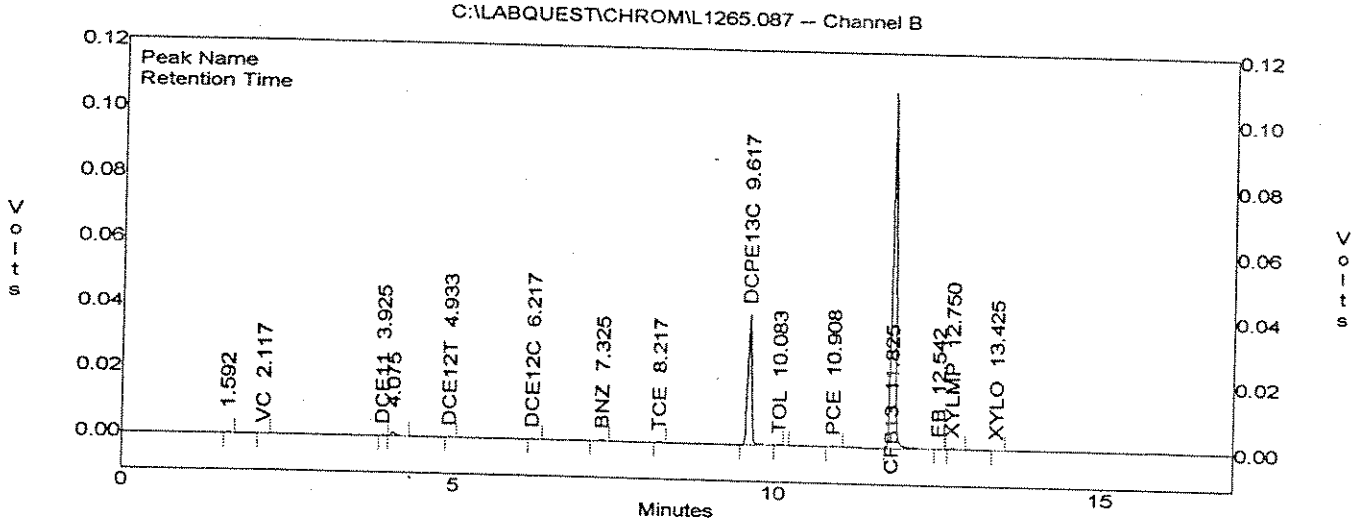
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.400	2164	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
2	DCE12C	6.292	852	0.095	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
3	DCA12	7.467	539	0.053	0
4	TCE	8.275	5222	0.494	0
5		8.600	6732	0.000	0
6	DCPE13C	9.658	1119094	945.823	0
7		10.550	9656	0.000	0
8	TCA112	10.808	3280	0.179	0
9	PCE	10.975	9992	0.657	0
10	CFB13	11.867	503697	882.228	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

1661231 1829.529

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.087
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-35-5 5 6 8
Acquired : Dec 22, 1995 10:17:41
Printed : Dec 22, 1995 10:35:06
User : PAS



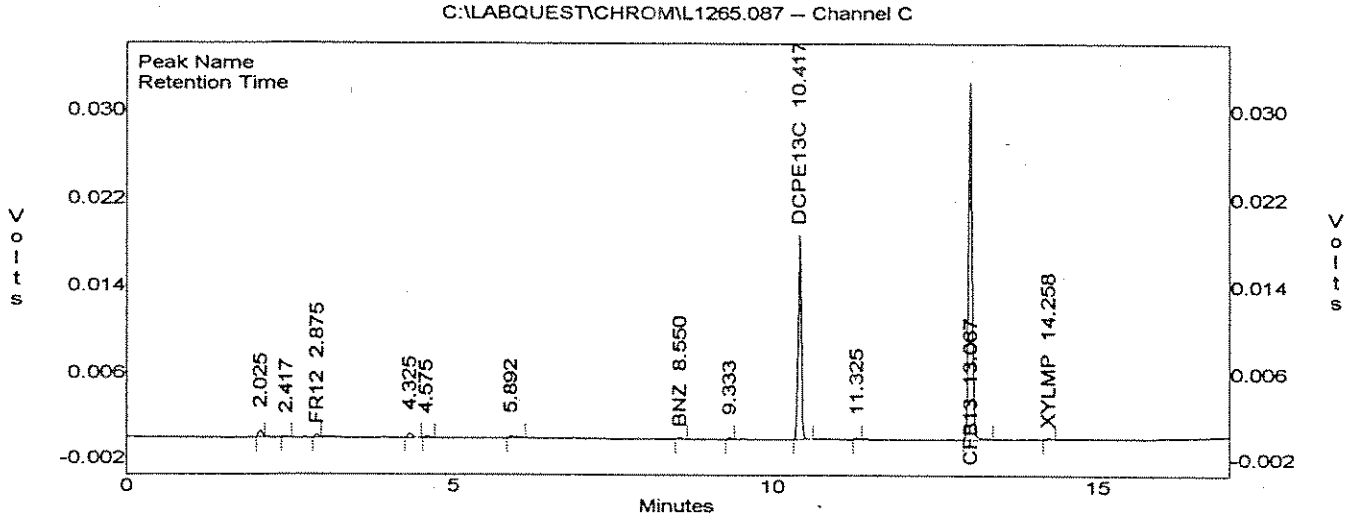
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1		1.592	723	0.000	0
2	VC	2.117	583	0.591	0
3	DCE11	3.925	842	0.292	0
4		4.075	6033	0.000	0
5	DCE12T	4.933	910	0.153	0
6	DCE12C	6.217	702	0.212	0
7	BNZ	7.325	1410	0.212	0
8	TCE	8.217	1580	0.420	0
9	DCPE13C	9.617	150272	760.450	0
10	TOL	10.083	1070	0.193	0
11	PCE	10.908	1454	0.473	0
12	CFB13	11.825	453742	768.284	0
13	EB	12.542	535	0.095	0
14	XYLMP	12.750	1763	0.302	0
15	XYLO	13.425	745	0.130	0

Totals :

622370 1531.808

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.087
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-35-~~8~~15 PS
Acquired : Dec 22, 1995 10:17:41
Printed : Dec 22, 1995 10:35:08
User : PAS



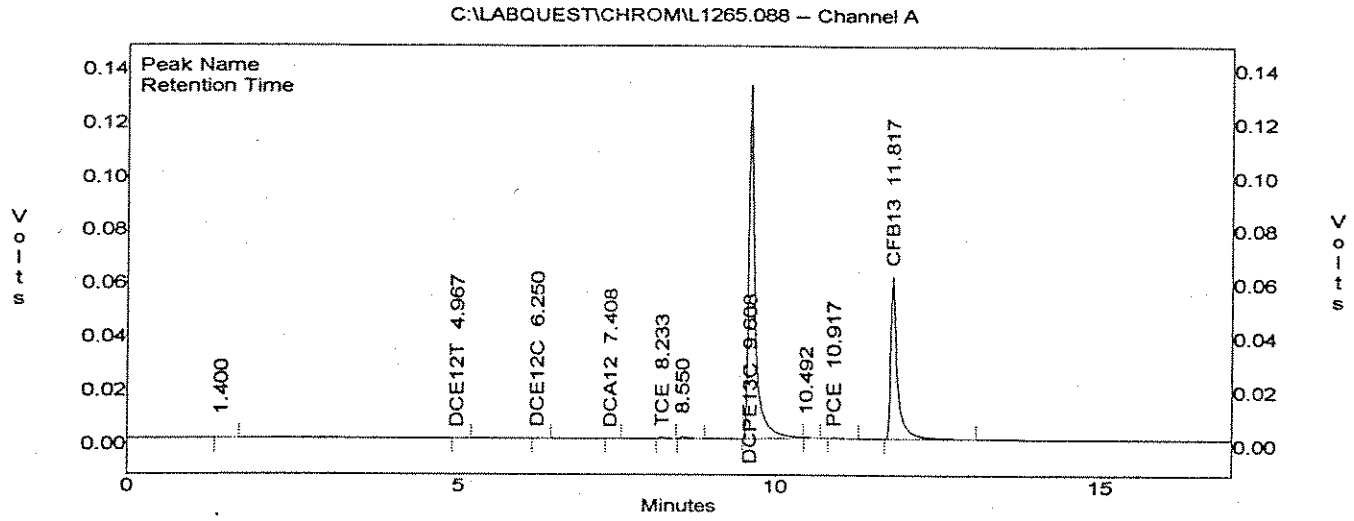
Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.025	2563	0.000	0
2		2.417	514	0.000	0
3	FR12	2.875	1097	2.122	0
--	VC	3.640	0	0.000	0
4		4.325	1994	0.000	0
--	CLET	4.450	0	0.000	0
5		4.575	529	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
6		5.892	1391	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
7	BNZ	8.550	605	0.400	0
--	CBTC	8.660	0	0.000	0
8		9.333	552	0.000	0
--	TCE	9.520	0	0.000	0
9	DCPE13C	10.417	65331	991.249	0
--	TCA112	11.110	0	0.000	0
10		11.325	550	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
11	CFB13	13.067	122537	1014.024	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
12	XYLMP	14.258	690	0.466	0
--	XYLO	14.830	0	0.000	0

Totals :

198357 2008.261

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.088
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-12-15
Acquired : Dec 22, 1995 10:53:08
Printed : Dec 22, 1995 11:10:30
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.400	1415	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
2	DCE12T	4.967	882	0.093	0
--	DCA11	5.480	0	0.000	0
3	DCE12C	6.250	1143	0.127	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
4	DCA12	7.408	588	0.058	0
5	TCE	8.233	3593	0.340	0
6		8.550	4467	0.000	0
7	DCPE13C	9.608	921040	778.435	0
8		10.492	3200	0.000	0
--	TCA112	10.760	0	0.000	0
9	PCE	10.917	3259	0.214	0
10	CFB13	11.817	462355	809.817	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

1401945 1589.084

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12105

Sample I.D.: SV-12-15

Probe Depth (ft): 15

Time Sampled: 1049

Sampled by: BV

Date Sampled: 12-22-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: sunny

Ground Surface: soil

Air Temp (F): 68

Wind dir/speed: South / 1mph

Sample Parameters

Probe Volume (ml): 240

Max. Purge Vacuum (in. Hg): 15

Purge Volume (liters): 1.2

Equilibrium Time:

Purge Time:

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

Date: 12-22-95 Time: 1055

Time Injected: 1055 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1	<1	Tetrachloroethene	<1	<1
Vinyl Chloride	<1	<1	1,1,1,2 PCA	<1	<1
Chloroethane	<1	<1	1,1,2,2 PCA	<1	<1
Freon 11	<1	<1	1,1-Dichloroethene	<1	<1
Dichloromethane	<1	<1	Benzene	<1	<1
trans-1,2-Dichloroethene	<1	<1	Toluene	<1	<1
1,1-Dichloroethane	<1	<1	Ethyl Benzene	<1	<1
cis-1,2-Dichloroethene	<1	<1	m/p-xylene	<1	<1
Chloroform	<1	<1	o-Xylene	<1	<1
1,1,1-trichloroethane	<1	<1			
Carbon Tetrachloride	<1	<1			
1,2-Dichloroethane	<1	<1	Freon 113	<1	<1
Trichloroethene	<1	<1			
1,1,2-Trichloroethane	<1	<1			

Surrogate Recovery ELCD: 78 81 % (~~88 83~~) PID: 76 67 % (76 72) FID: 99 101 % (99 100)

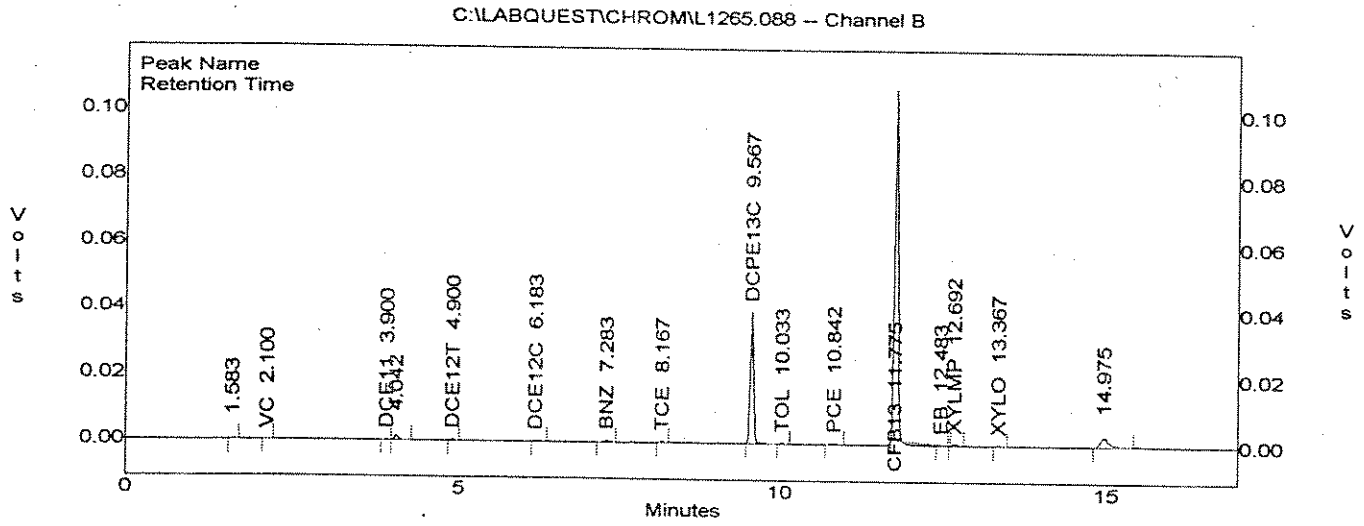
Run duplicate; Use FID to report BTEX due to low surrogates on PID

1st run ~~not reported~~ ps

BGPAA 0464

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.088
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-12-15
Acquired : Dec 22, 1995 10:53:08
Printed : Dec 22, 1995 11:10:34
User : PAS



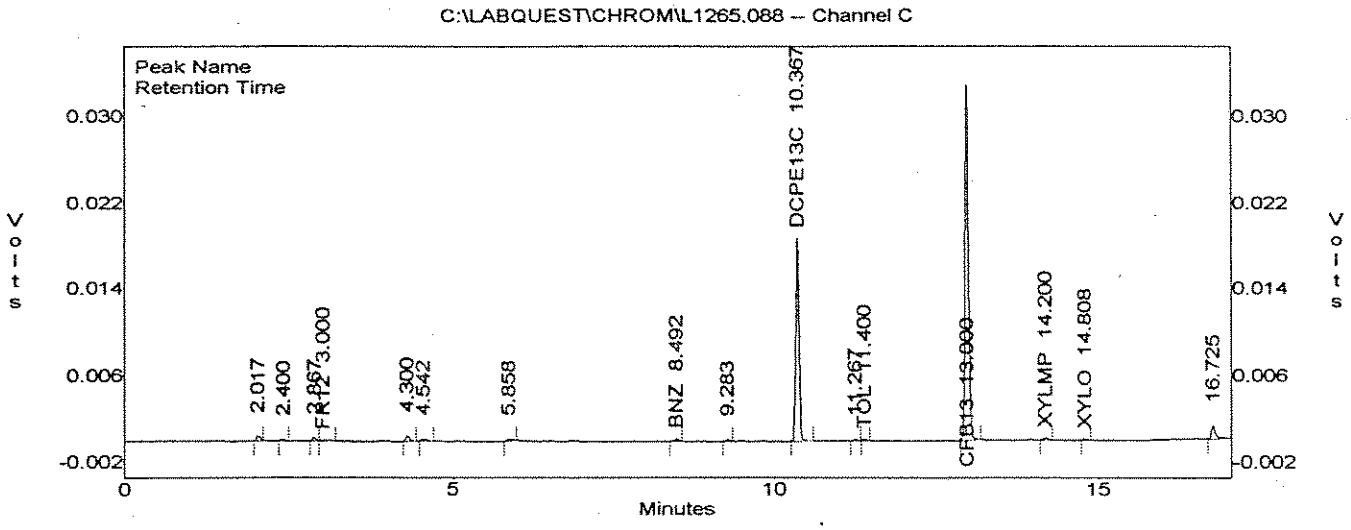
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1		1.583	802	0.000	0
2	VC	2.100	504	0.511	0
3	DCE11	3.900	991	0.344	0
4		4.042	6310	0.000	0
5	DCE12T	4.900	1336	0.224	0
6	DCE12C	6.183	1093	0.330	0
7	BNZ	7.283	1763	0.265	0
8	TCE	8.167	1570	0.417	0
9	DCPE13C	9.567	149768	757.898	0
10	TOL	10.033	1397	0.252	0
11	PCE	10.842	2309	0.751	0
12	CFB13	11.775	397335	672.774	0
13	EB	12.483	783	0.140	0
14	XYLMP	12.692	2379	0.408	0
15	XYLO	13.367	972	0.170	0
16		14.975	26938	0.000	0

Totals :

596256 1434.484

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.088
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-12-15
Acquired : Dec 22, 1995 10:53:08
Printed : Dec 22, 1995 11:10:36
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.017	2031	0.000	0
2		2.400	588	0.000 can't confirm	0
3		2.867	1374	0.000	0
4	FR12	3.000	723	~~1.399~~ Not on Hall RS	0
--	VC	3.640	0	0.000	0
5		4.300	2193	0.000	0
--	CLET	4.450	0	0.000	0
6		4.542	1108	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
7		5.858	918	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
8	BNZ	8.492	846	0.559	0
--	CBTC	8.660	0	0.000	0
9		9.283	518	0.000	0
--	TCE	9.520	0	0.000	0
10	DCPE13C	10.367	65204	989.315	0
--	TCA112	11.110	0	0.000	0
11		11.267	576	0.000	0
12	TOL	11.400	657	0.435	0
--	PCE	12.710	0	0.000	0
13	CFB13	13.000	121589	1006.173	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
14	XYLMP	14.200	1013	0.684	0
15	XYLO	14.808	501	0.295	0
16		16.725	5604	0.000	0

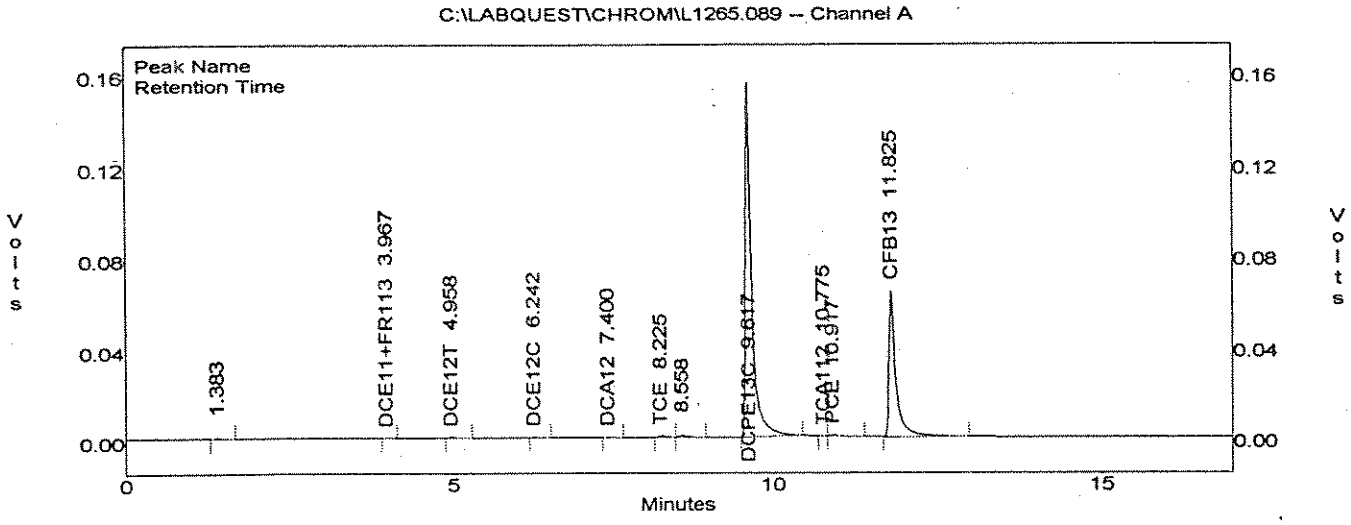
Continued...

File : C:\LABQUEST\CHROM\L1265.088
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-12-15
Acquired : Dec 22, 1995 10:53:08
Printed : Dec 22, 1995 11:10:38
User : PAS

Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
Totals :					
			205448	1998.859	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.089
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-12-15
Acquired : Dec 22, 1995 11:16:04
Printed : Dec 22, 1995 11:33:22
User : PAS

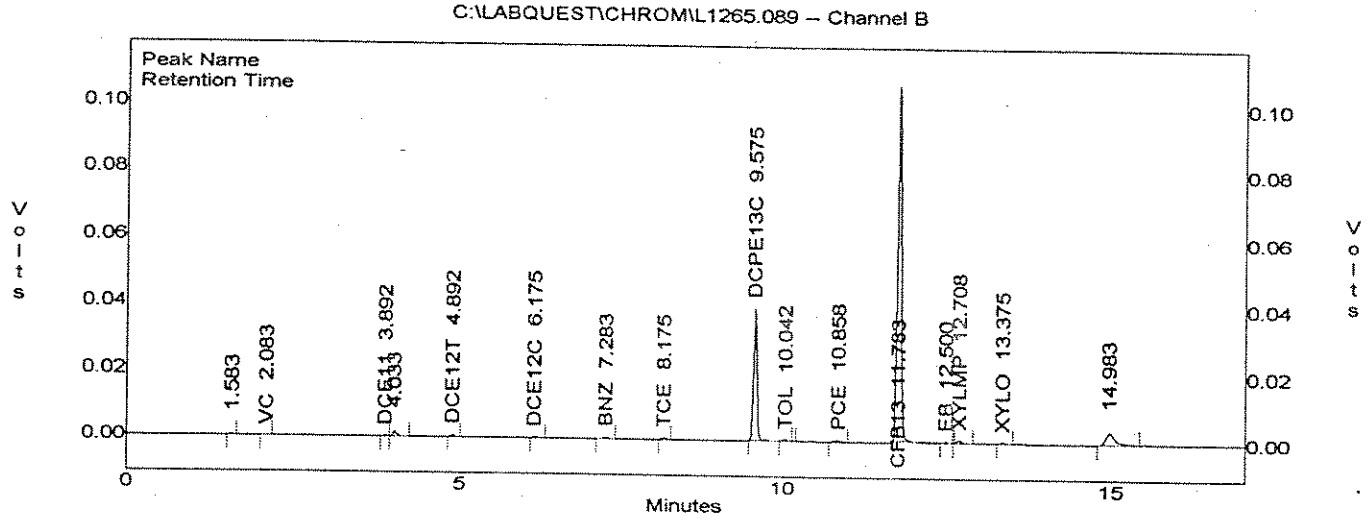


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.383	2230	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
2	DCE11+FR113	3.967	606	0.084	0
--	DCM	4.610	0	0.000	0
3	DCE12T	4.958	2852	0.300	0
--	DCA11	5.480	0	0.000	0
4	DCE12C	6.242	2219	0.246	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
5	DCA12	7.400	1292	0.127	0
6	TCE	8.225	6815	0.645	0
7		8.558	6356	0.000	0
8	DCPE13C	9.617	1041442	880.195	0
9	TCA112	10.775	893	0.049	0
10	PCE	10.917	5081	0.334	0
11	CFB13	11.825	472340	827.307	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0
Totals :			1542130	1709.287	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.089
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-12-15
Acquired : Dec 22, 1995 11:16:04
Printed : Dec 22, 1995 11:33:27
User : PAS



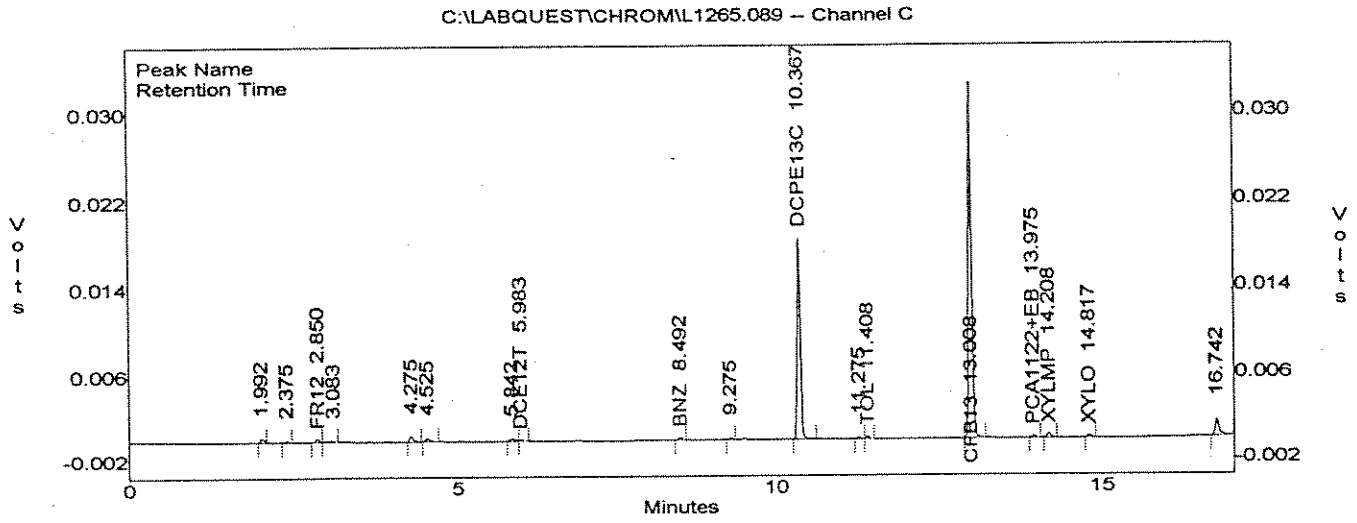
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1		1.583	806	0.000	0
2	VC	2.083	575	0.583	0
3	DCE11	3.892	1000	0.347	0
4		4.033	6515	0.000	0
5	DCE12T	4.892	2417	0.405	0
6	DCE12C	6.175	1271	0.384	0
7	BNZ	7.283	1987	0.299	0
8	TCE	8.175	2065	0.549	0
9	DCPE13C	9.575	150593	762.076	0
10	TOL	10.042	2359	0.425	0
11	PCE	10.858	2795	0.909	0
12	CFB13	11.783	423321	716.774	0
13	EB	12.500	1509	0.269	0
14	XYLMP	12.708	4471	0.766	0
15	XYLO	13.375	2018	0.353	0
16		14.983	35580	0.000	0

Totals :

	639287	1484.139

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.089
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-12-15
Acquired : Dec 22, 1995 11:16:04
Printed : Dec 22, 1995 11:33:29
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.992	1620	0.000	0
2		2.375	563	0.000	0
3	FR12	2.850	1308	2.530	0
4		3.083	751	0.000	0
--	VC	3.640	0	0.000	0
5		4.275	2307	0.000	0
--	CLET	4.450	0	0.000	0
6		4.525	1495	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
7		5.842	1450	0.000	0
8	DCE12T	5.983	541	1.357	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
9	BNZ	8.492	787	0.520	0
--	CBTC	8.660	0	0.000	0
10		9.275	517	0.000	0
--	TCE	9.520	0	0.000	0
11	DCPE13C	10.367	65235	989.785	0
--	TCA112	11.110	0	0.000	0
12		11.275	573	0.000	0
13	TOL	11.408	1068	0.707	0
--	PCE	12.710	0	0.000	0
14	CFB13	13.008	121389	1004.522	0
--	PCA1112	13.490	0	0.000	0
15	PCA1122+EB	13.975	768	1.026	0
16	XYLMP	14.208	1844	1.244	0
17	XYLO	14.817	1072	0.630	0
18		16.742	7193	0.000	0

Continued...

File : C:\LABQUEST\CHROM\L1265.089
Method : C:\LABQUEST\METHODS\L1265_2.MET
ple ID : SV-12-15
uired : Dec 22, 1995 11:16:04
inted : Dec 22, 1995 11:33:30
ser : PAS

hannel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
Totals :			210486	2002.322	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 6S

Sample I.D.: SV-4-5

Probe Depth (ft): 5

Time Sampled: 1131

Sampled by: BV

Date Sampled: 12-22-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Soil

Air Temp (F): 69

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 12

Purge Volume (liters): 400ml

Equilibrium Time: 2 sec

Purge Time: 2 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

Date: 12-22-95 Time: 1137

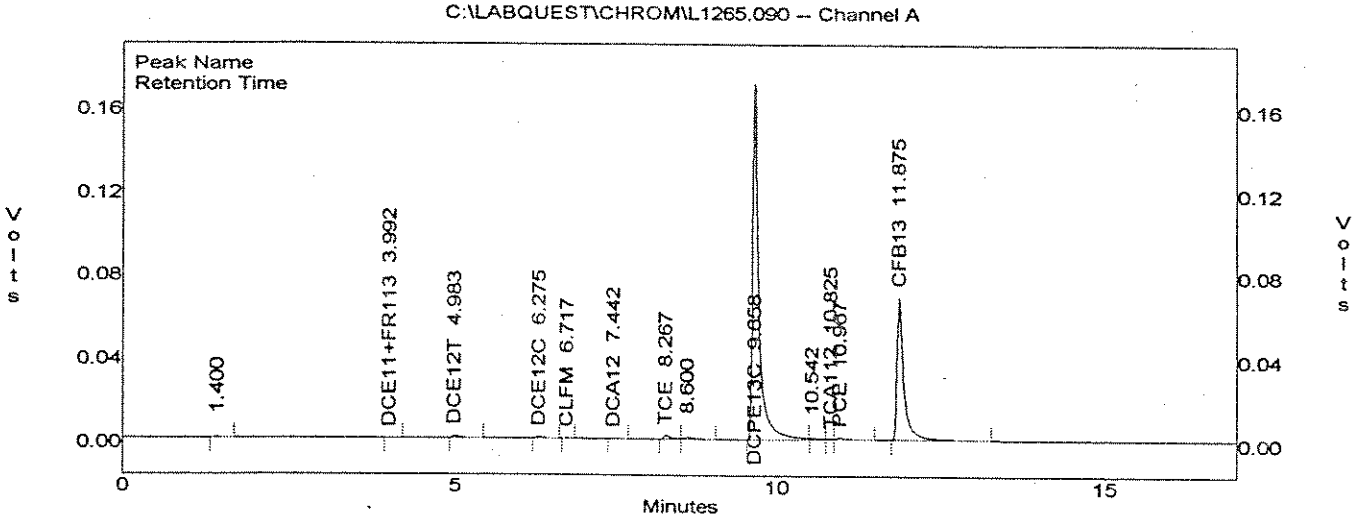
Time Injected:

Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	Reported from FID
trans-1,2-Dichloroethene	<1		Toluene	1.5	
1,1-Dichloroethane	<1		Ethyl Benzene	3.7	
cis-1,2-Dichloroethene	<1		m/p-xylene	5.6	
Chloroform	<1		o-Xylene	2.8	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	1.2				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 98 90 % PID: 77 76 % FID: 99 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.090
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-4-5
Acquired : Dec 22, 1995 11:39:45
Printed : Dec 22, 1995 11:57:08
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.400	2198	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
2	DCE11+FR113	3.992	1035	0.143	0
--	DCM	4.610	0	0.000	0
3	DCE12T	4.983	8154	0.858	0
--	DCA11	5.480	0	0.000	0
4	DCE12C	6.275	5532	0.615	0
5	CLFM	6.717	662	0.057	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
6	DCA12	7.442	2515	0.247	0
7	TCE	8.267	12875	1.219	0
8		8.600	8326	0.000	0
9	DCPE13C	9.658	1159840	980.261	0
10		10.542	8858	0.000	0
11	TCA112	10.825	3773	0.206	0
12	PCE	10.967	13550	0.891	0
13	CFB13	11.875	511596	896.064	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

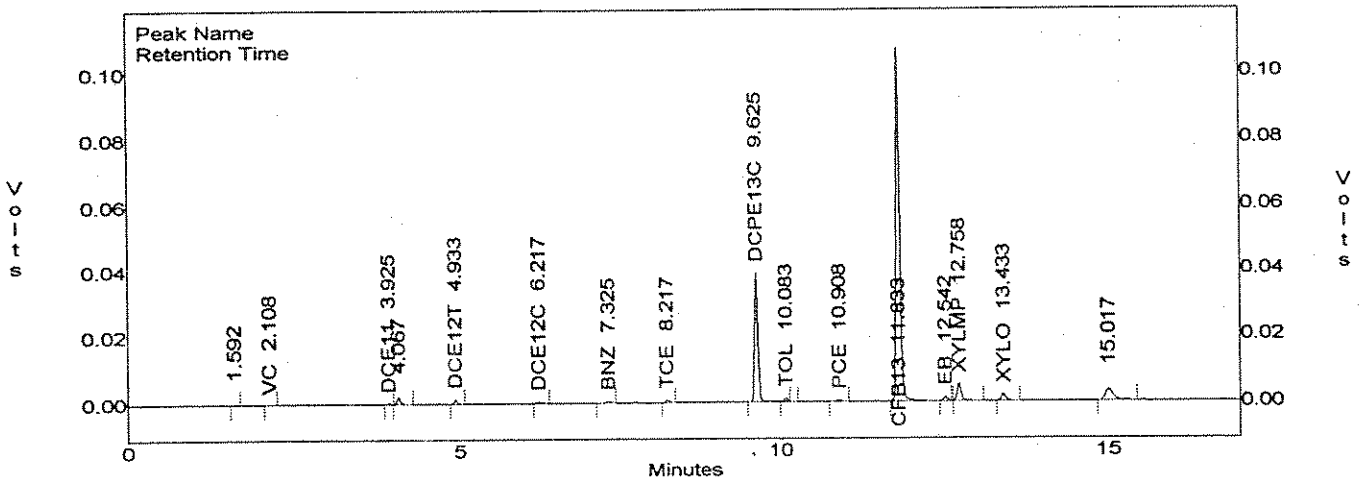
Totals :

	1738918	1880.560

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.090
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-4-5
Acquired : Dec 22, 1995 11:39:45
Printed : Dec 22, 1995 11:57:12
User : PAS

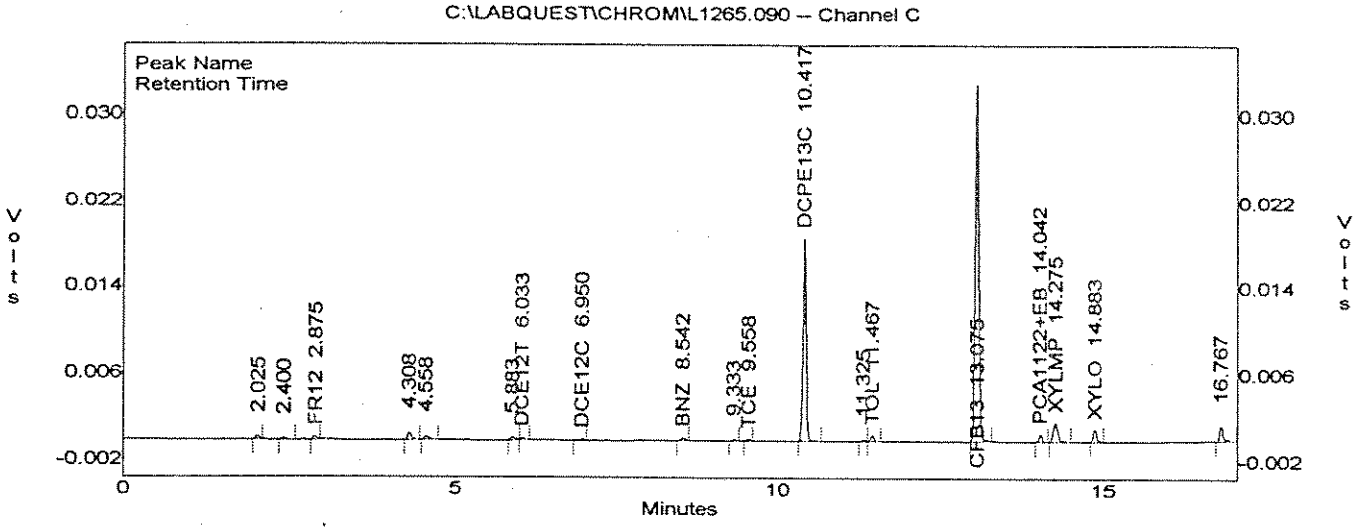
C:\LABQUEST\CHROM\L1265.090 -- Channel B



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1		1.592	803	0.000	0
2	VC	2.108	563	0.571	0
3	DCE11	3.925	1140	0.396	0
4		4.067	8855	0.000	0
5	DCE12T	4.933	4926	0.826	0
6	DCE12C	6.217	2083	0.629	0
7	BNZ	7.325	2369	0.356	0
8	TCE	8.217	3188	0.847	0
9	DCPE13C	9.625	152284	770.631	0
10	TOL	10.083	5160	0.931	0
11	PCE	10.908	2861	0.931	0
12	CFB13	11.833	449596	761.263	0
13	EB	12.542	5601	0.997	0
14	XYLMP	12.758	23076	3.953	0
15	XYLO	13.433	10021	1.751	0
16		15.017	28265	0.000	0
Totals :			700796	1544.082	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.090
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-4-5
Acquired : Dec 22, 1995 11:39:45
Printed : Dec 22, 1995 11:57:14
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.025	1533	0.000	0
2		2.400	722	0.000	0
3	FR12	2.875	1299	~~2.512~~ Not on Hall	0
--	VC	3.640	0	0.000	0
4		4.308	2914	0.000 PS	0
--	CLET	4.450	0	0.000	0
5		4.558	1757	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
6		5.883	1714	0.000	0
7	DCE12T	6.033	917	~~2.301~~ <1 on Hall	0
--	DCA11	6.190	0	0.000	0
8	DCE12C	6.950	671	~~1.655~~ <1 on Hall	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
9	BNZ	8.542	1030	0.681	0
--	CBTC	8.660	0	0.000	0
10		9.333	581	0.000	0
11	TCE	9.558	606	2.033	0
12	DCPE13C	10.417	65349	991.522	0
--	TCA112	11.110	0	0.000	0
13		11.325	566	0.000	0
14	TOL	11.467	2316	1.533	0
--	PCE	12.710	0	0.000	0
15	CFB13	13.075	121964	1009.280	0
--	PCA1112 → Not on Hall	13.490	0	0.000	0
16	~~PCA1122~~+EB reported as EB PS	14.042	2736	3.655	0
17	XYLMP	14.275	8354	5.638	0
18	XYLO	14.883	4702	2.765	0
19		16.767	5601	0.000	0

Continued...

File : C:\LABQUEST\CHROM\L1265.090
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-4-5
Acquired : Dec 22, 1995 11:39:45
Printed : Dec 22, 1995 11:57:15
User : PAS

Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
Totals :			225340	2023.575	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-3-5

Time Sampled: 1151

Date Sampled: 12-22-95

Probe Depth (ft): 5

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Air Temp (F): 66

Ground Surface: Asphalt gravel

Wind dir/speed: South/1mph

Sample Parameters

Probe Volume (ml): 80

Purge Volume (liters): 400ml

Purge Time: 2sec

Notes:

Max. Purge Vacuum (in. Hg): 12

Equilibrium Time: 2sec

Sample Volume (ml): 20

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-22-95 Time: 11 57

Volume Analyzed (ml): 1.0

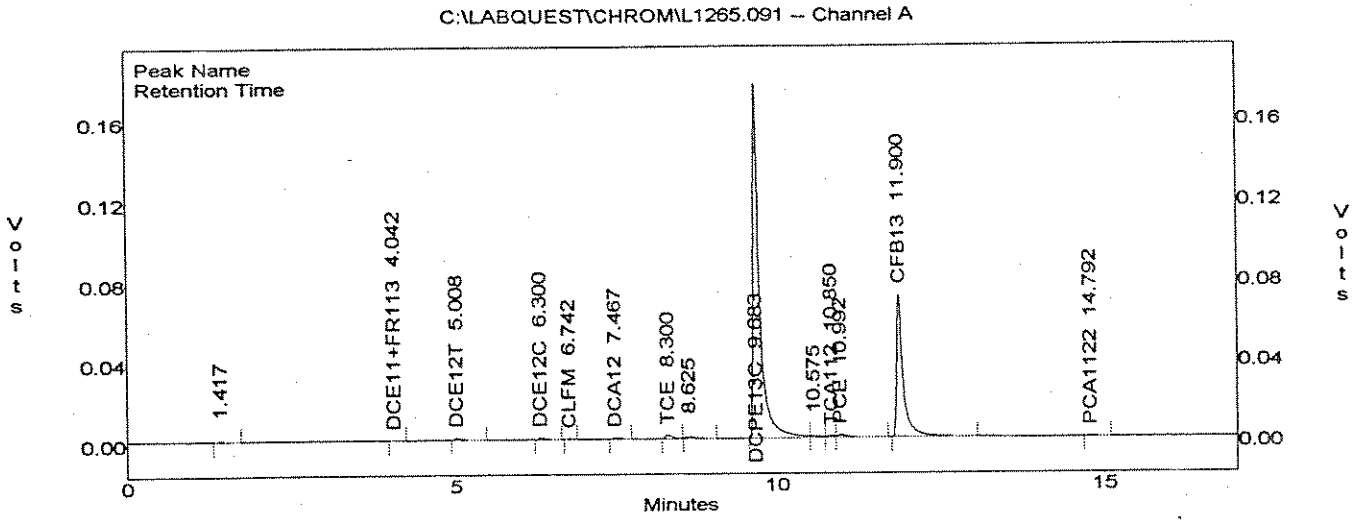
Time Injected: 1200 Loop #: manual

Compound	Concentration (ug/l)	Compound	Concentration (ug/l)
Freon 12	<1	Tetrachloroethene	1.2
Vinyl Chloride	<1	1,1,1,2 PCA	<1
Chloroethane	<1	1,1,2,2 PCA	<1
Freon 11	<1	1,1-Dichloroethene	<1
Dichloromethane	<1	Benzene	<1
trans-1,2-Dichloroethene	<1	Toluene	1.4
1,1-Dichloroethane	<1	Ethyl Benzene	2.7
cis-1,2-Dichloroethene	<1	m/p-xylene	4.8
Chloroform	<1	o-Xylene	2.7
1,1,1-trichloroethane	<1		
Carbon Tetrachloride	<1		
1,2-Dichloroethane	<1	Freon 113	<1
Trichloroethene	1.4 ✓		
1,1,2-Trichloroethane	<1		

Reported from FID

Surrogate Recovery ELCD: 103 90 % PID: 77 77 % FID: 100 104 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.091
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-3-5
Acquired : Dec 22, 1995 12:03:24
Printed : Dec 22, 1995 12:20:47
User : PAS

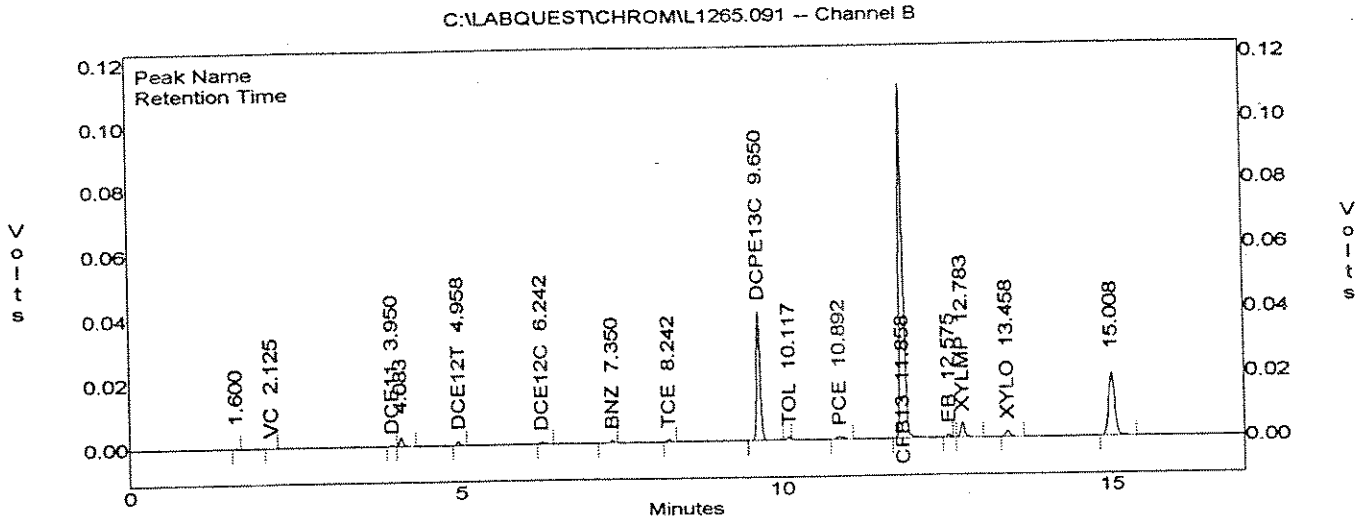


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.417	3163	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
2	DCE11+FR113	4.042	661	0.091	0
--	DCM	4.610	0	0.000	0
3	DCE12T	5.008	8192	0.862	0
--	DCA11	5.480	0	0.000	0
4	DCE12C	6.300	5966	0.663	0
5	CLFM	6.742	931	0.080	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
6	DCA12	7.467	4180	0.410	0
7	TCE	8.300	14648	1.386	0
8		8.625	8763	0.000	0
9	DCPE13C	9.683	1223801	1034.319	0
10		10.575	9380	0.000	0
11	TCA112	10.850	7237	0.395	0
12	PCE	10.992	18930	1.245	0
13	CFB13	11.900	514562	901.258	0
--	PCA1112	12.490	0	0.000	0
14	PCA1122	14.792	2872	0.288	0
Totals :			1823291	1940.998	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

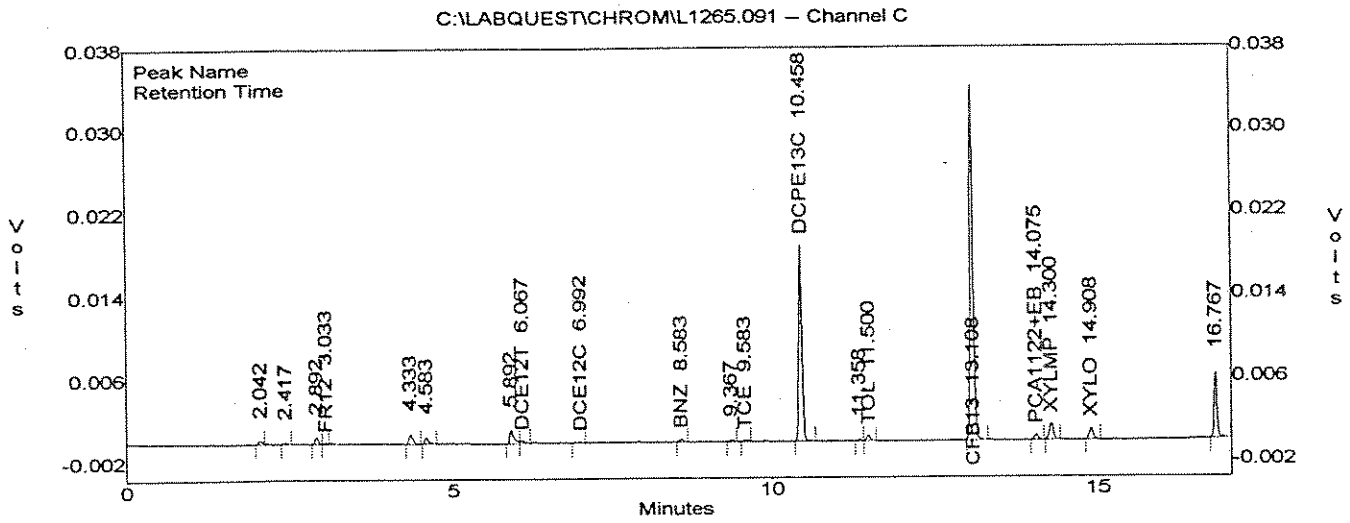
File : C:\LABQUEST\CHROM\L1265.091
Method : C:\LABQUEST\METHODS\L1265_2.MET
SampleID : SV-3-5
Acquired : Dec 22, 1995 12:03:24
Printed : Dec 22, 1995 12:20:51
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1		1.600	929	0.000	0
2	VC	2.125	606	0.614	0
3	DCE11	3.950	1654	0.574	0
4		4.083	11600	0.000	0
5	DCE12T	4.958	4822	0.809	0
6	DCE12C	6.242	2365	0.713	0
7	BNZ	7.350	2326	0.350	0
8	TCE	8.242	3281	0.872	0
9	DCPE13C	9.650	152905	773.772	0
10	TOL	10.117	147293	~~26.563~~ See FID	0
11	PCE	10.892	6610	2.149	0
12	CFB13	11.858	453895	768.542	0
13	EB	12.575	4130	0.736	0
14	XYLMP	12.783	19707	3.376	0
15	XYLO	13.458	9346	1.633	0
16		15.008	128382	0.000	0
Totals :			949854	1580.703	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.091
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-3-5
Acquired : Dec 22, 1995 12:03:24
Printed : Dec 22, 1995 12:20:52
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.042	1444	0.000	0
2		2.417	658	0.000	0
3		2.892	2540	0.000	0
4	FR12	3.033	510	~~0.907~~ Not on Hull	0
--	VC	3.640	0	0.000	0
5		4.333	4190	0.000	0
--	CLET	4.450	0	0.000	0
6		4.583	2715	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
7		5.892	6302	0.000	0
8	DCE12T	6.067	1090	2.736	0
--	DCA11	6.190	0	0.000	0
9	DCE12C	6.992	736	1.815	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
10	BNZ	8.583	1165	0.771	0
--	CBTC	8.660	0	0.000	0
11		9.367	566	0.000	0
12	TCE	9.583	620	2.080	0
13	DCPE13C	10.458	65624	995.695	0
--	TCA112	11.110	0	0.000	0
14		11.358	614	0.000	0
15	TOL	11.500	2178	1.441	0
--	PCE	12.710	0	0.000	0
16	CFB13	13.108	125427	1037.933	0
--	PCA1112 → Not on Hull	13.490	0	0.000	0
17	~~PCA1122~~+EB	14.075	2020	2.699	0
18	XYLMP	14.300	7134	4.814	0
19	XYLO	14.908	4565	2.684	0
20		16.767	20349	0.000	0

reported as EB

Continued...

File : C:\LABQUEST\CHROM\L1265.091
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-3-5
Acquired : Dec 22, 1995 12:03:24
Printed : Dec 22, 1995 12:20:54
User : PAS

Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
Totals :					
			250454	2053.654	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 6S

Sample I.D.: SV-2-5

Probe Depth (ft): 5

Time Sampled: 1211

Sampled by: BV

Date Sampled: 12-22-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt/gravel.

Air Temp (F): 66

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 14

Purge Volume (liters): 400ml

Equilibrium Time: 2 sec

Purge Time: 2 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

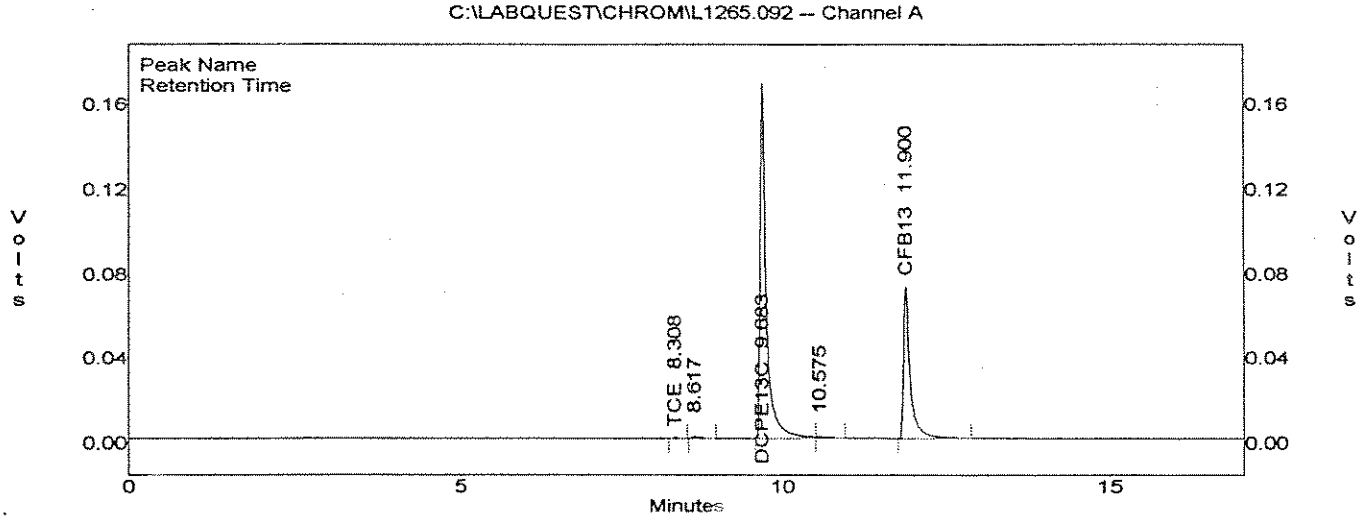
Date: 12-22-95 Time: 1217

Time Injected: ~~1232~~ 1227 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 97 90 % PID: 78 79 % FID: 99 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.092
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-2-5
Acquired : Dec 22, 1995 12:27:20
Printed : Dec 22, 1995 12:44:42
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
1	TCE	8.308	1421	0.135	0
2		8.617	5545	0.000	0
3	DCPE13C	9.683	1151680	973.365	0
4		10.575	6929	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
5	CFB13	11.900	516400	904.478	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

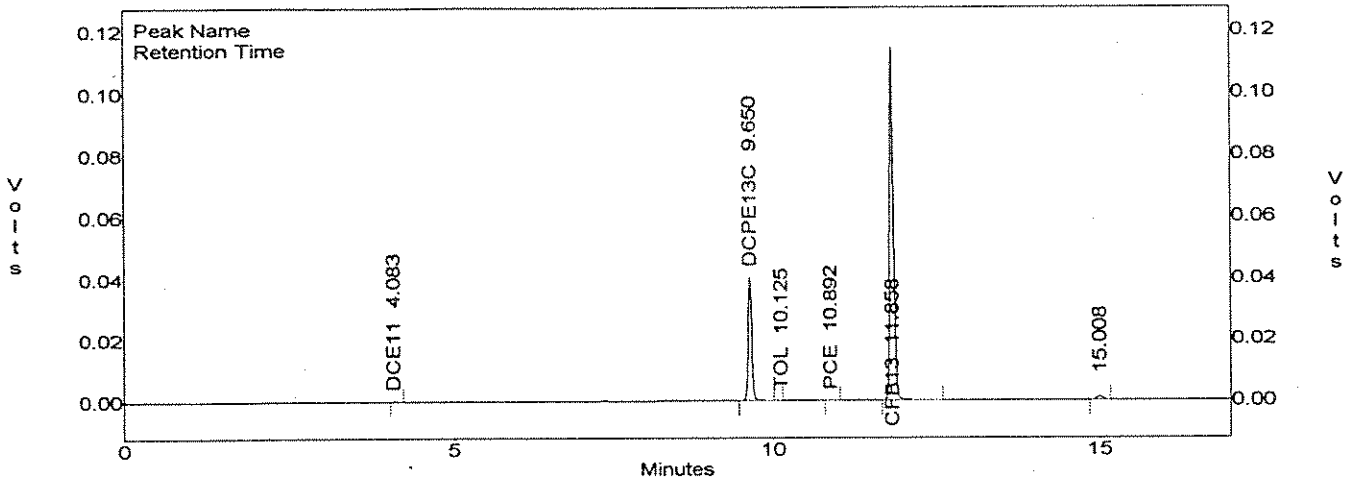
Totals :

	1681977	1877.977

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.092
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-2-5
Acquired : Dec 22, 1995 12:27:20
Printed : Dec 22, 1995 12:44:46
User : PAS

C:\LABQUEST\CHROM\L1265.092 -- Channel B

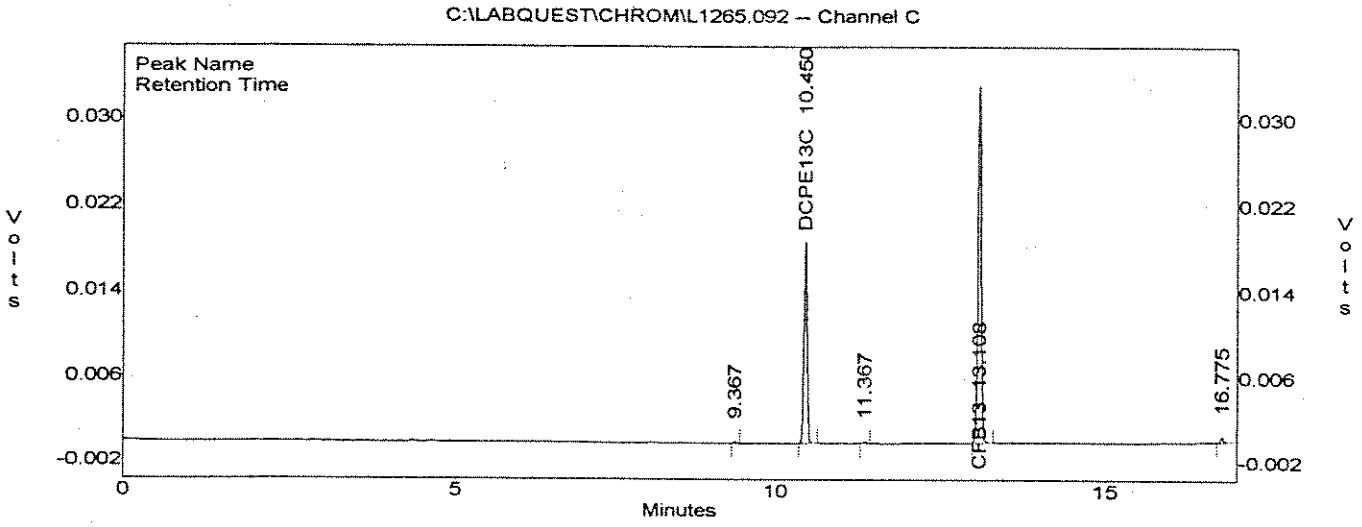


Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
1	DCE11	4.083	912	0.317	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
2	DCPE13C	9.650	153291	775.725	0
3	TOL	10.125	~~153272~~ ?	~~27.641~~ see FID PS	0
4	PCE	10.892	625	0.203	0
5	CFB13	11.858	465234	787.741	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
6		15.008	7359	0.000	0

Totals : 780694 1591.627

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.092
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-2-5
Acquired : Dec 22, 1995 12:27:20
Printed : Dec 22, 1995 12:44:47
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
1		9.367	553	0.000	0
--	TCE	9.520	0	0.000	0
2	DCPE13C	10.450	65547	994.530	0
--	TCA112	11.110	0	0.000	0
3		11.367	551	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
4	CFB13	13.108	120775	999.437	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
5		16.775	1944	0.000	0

Totals :

	189371	1993.967

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-1-5

Probe Depth (ft): 5

Time Sampled: 1234

Sampled by: BV

Date Sampled: 12-22-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny.

Ground Surface: soil

Air Temp (F): 66

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 13

Purge Volume (liters): 400ml

Equilibrium Time: 2 sec

Purge Time: 2 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

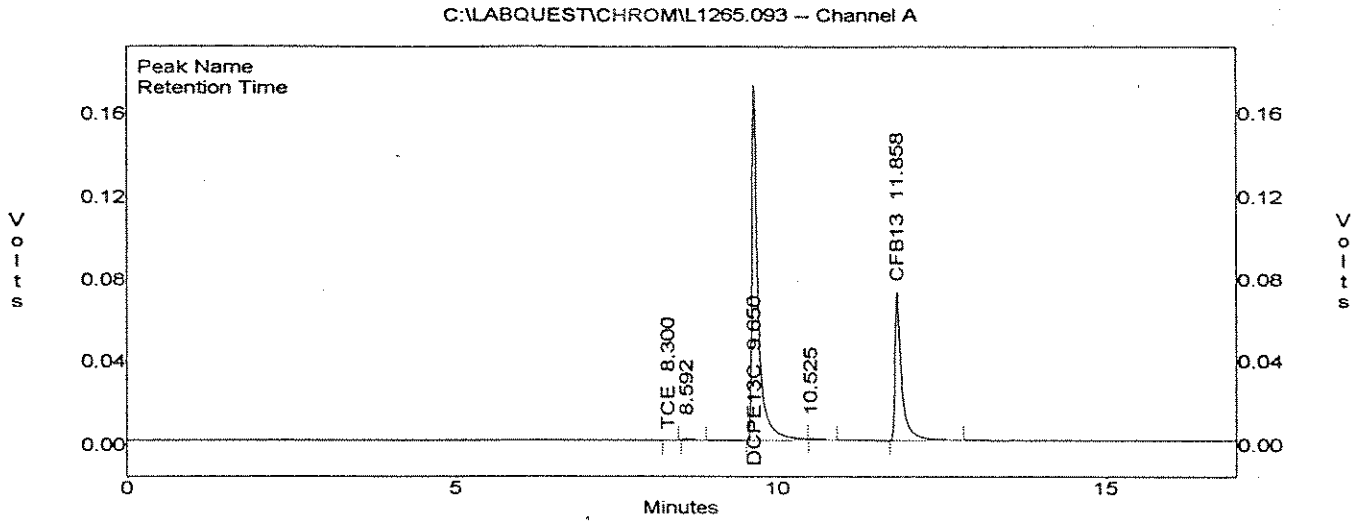
Date: 12-22-95 Time: 1242

Time Injected: 1252 Loop #: manual

Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 98 90 % PID: 76 76 % FID: 100 100 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.093
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-1-5
Acquired : Dec 22, 1995 12:50:32
Printed : Dec 22, 1995 13:07:58
User : PAS



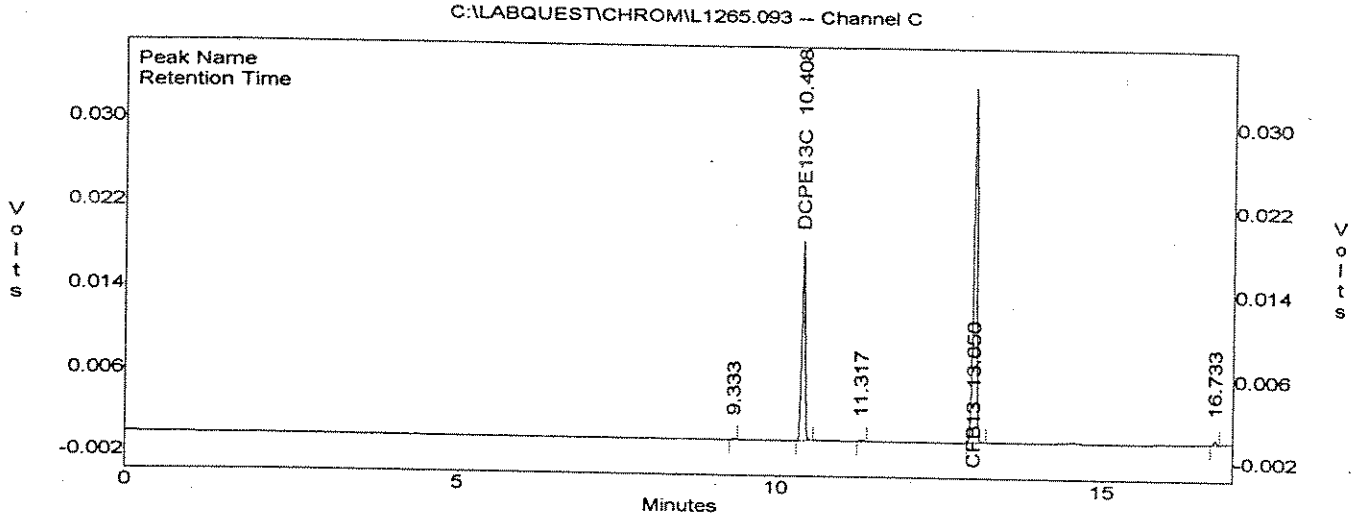
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
1	TCE	8.300	841	0.080	0
2		8.592	5393	0.000	0
3	DCPE13C	9.650	1156799	977.691	0
4		10.525	7692	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
5	CFB13	11.858	515826	903.472	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

			1686551	1881.242	

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.093
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-1-5
Acquired : Dec 22, 1995 12:50:32
Printed : Dec 22, 1995 13:08:03
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
1		9.333	535	0.000	0
--	TCE	9.520	0	0.000	0
2	DCPE13C	10.408	66232	1004.912	0
--	TCA112	11.110	0	0.000	0
3		11.317	577	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
4	CFB13	13.050	121111	1002.221	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
5		16.733	1428	0.000	0
Totals :			189884	2007.134	

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: TB 22 Dec 95

Probe Depth (ft): —

Time Sampled: _____

Sampled by: BV

Date Sampled: 12-22-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: —

Ground Surface: —

Air Temp (F): —

Wind dir/speed: —

Sample Parameters

Probe Volume (ml): —

Max. Purge Vacuum (in. Hg): —

Purge Volume (liters): —

Equilibrium Time: —

Purge Time: —

Sample Volume (ml): 10

Notes: _____

Syringe ID: a: _____ b: _____

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

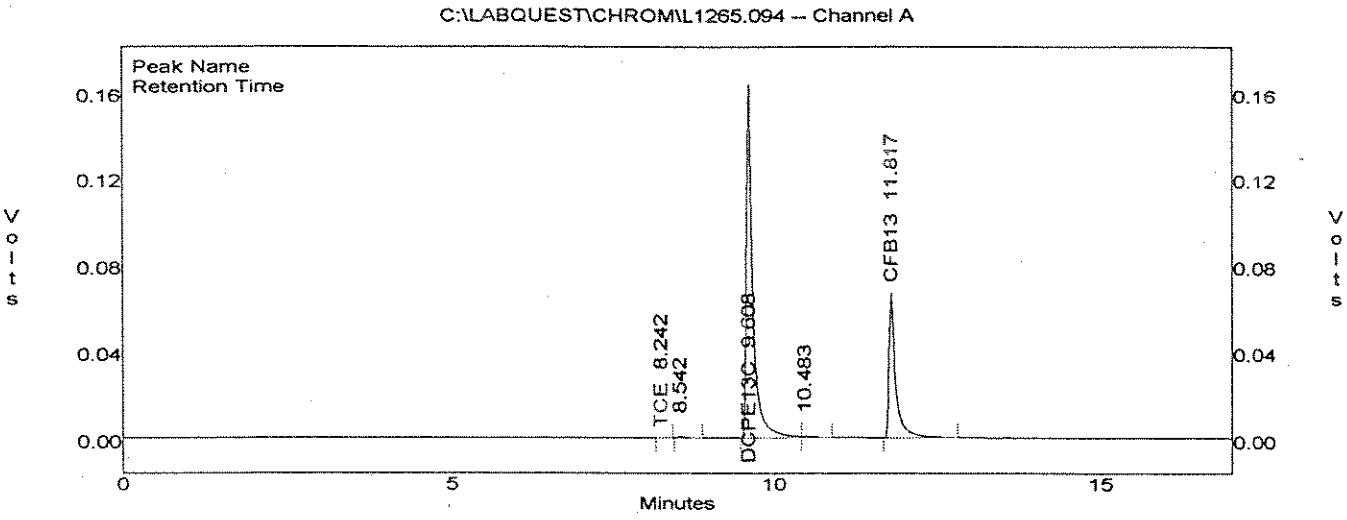
Date: 12-22-91 Time: 1315

Time Injected: 1319 Loop #: manual

Compound	Concentration (ug/l)	Compound	Concentration (ug/l)
Freon 12	<1	Tetrachloroethene	<1
Vinyl Chloride	<1	1,1,1,2 PCA	<1
Chloroethane	<1	1,1,2,2 PCA	<1
Freon 11	<1	1,1-Dichloroethene	<1
Dichloromethane	<1	Benzene	<1
trans-1,2-Dichloroethene	<1	Toluene	<1
1,1-Dichloroethane	<1	Ethyl Benzene	<1
cis-1,2-Dichloroethene	<1	m/p-xylene	<1
Chloroform	<1	o-Xylene	<1
1,1,1-trichloroethane	<1		
Carbon Tetrachloride	<1		
1,2-Dichloroethane	<1	Freon 113	<1
Trichloroethene	<1		
1,1,2-Trichloroethane	<1		

Surrogate Recovery ELCD: 93 85 % PID: 75 70 % FID: 99 98 %

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.094
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : TB22DEC95
Acquired : Dec 22, 1995 13:18:02
Printed : Dec 22, 1995 13:35:24
User : PAS



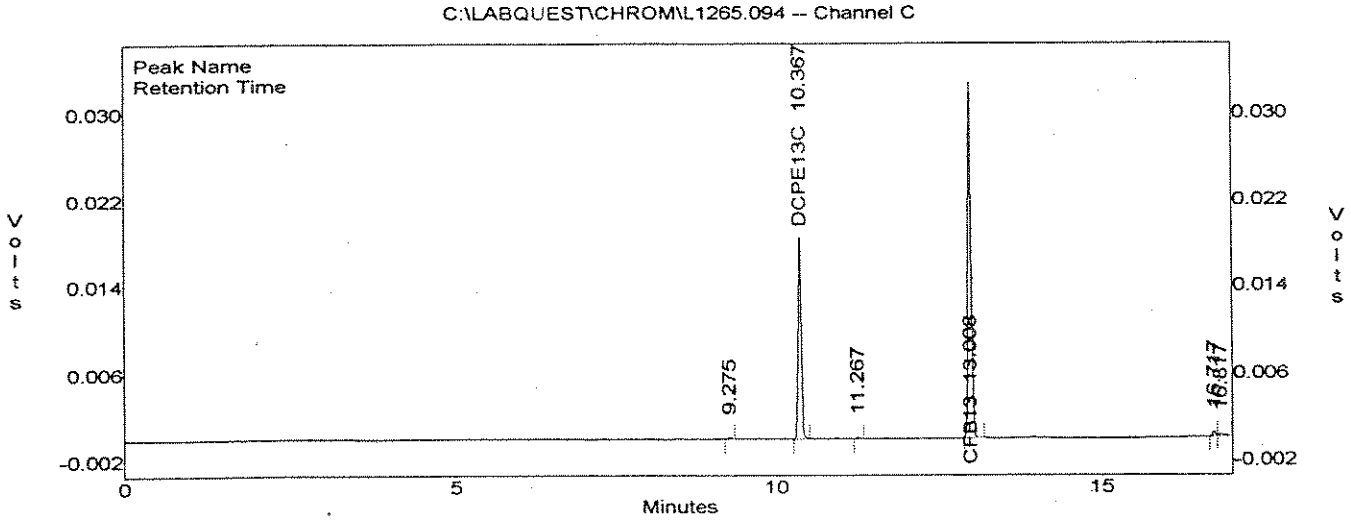
Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
1	TCE	8.242	903	0.085	0
2		8.542	5224	0.000	0
3	DCPE13C	9.608	1104050	933.109	0
4		10.483	7146	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
5	CFB13	11.817	483788	847.357	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

	1601111	1780.552

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.094
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : TB22DEC95
Acquired : Dec 22, 1995 13:18:02
Printed : Dec 22, 1995 13:35:29
User : PAS



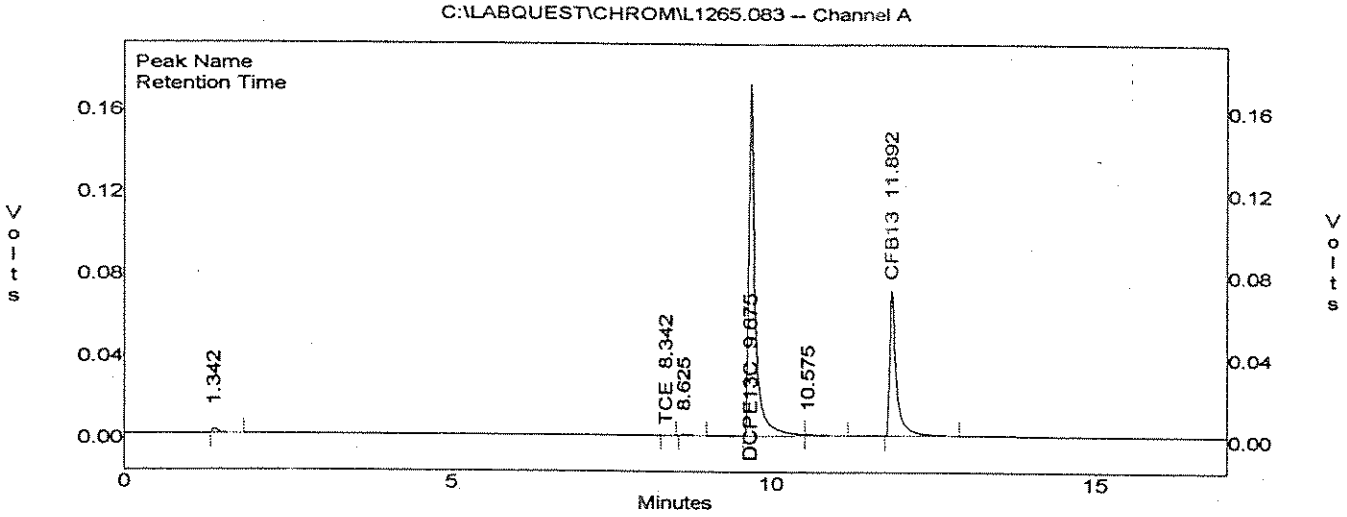
Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
1		9.275	539	0.000	0
--	TCE	9.520	0	0.000	0
2	DCPE13C	10.367	64963	985.666	0
--	TCA112	11.110	0	0.000	0
3		11.267	576	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
4	CFB13	13.008	118357	979.427	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
--	XYLO	14.830	0	0.000	0
5		16.717	1372	0.000	0
6		16.817	1386	0.000	0

Totals :

		187194	1965.093

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.083
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : sv-30-5
Acquired : Dec 22, 1995 08:41:33
Printed : Dec 22, 1995 08:59:50
User : PAS



Channel A Results

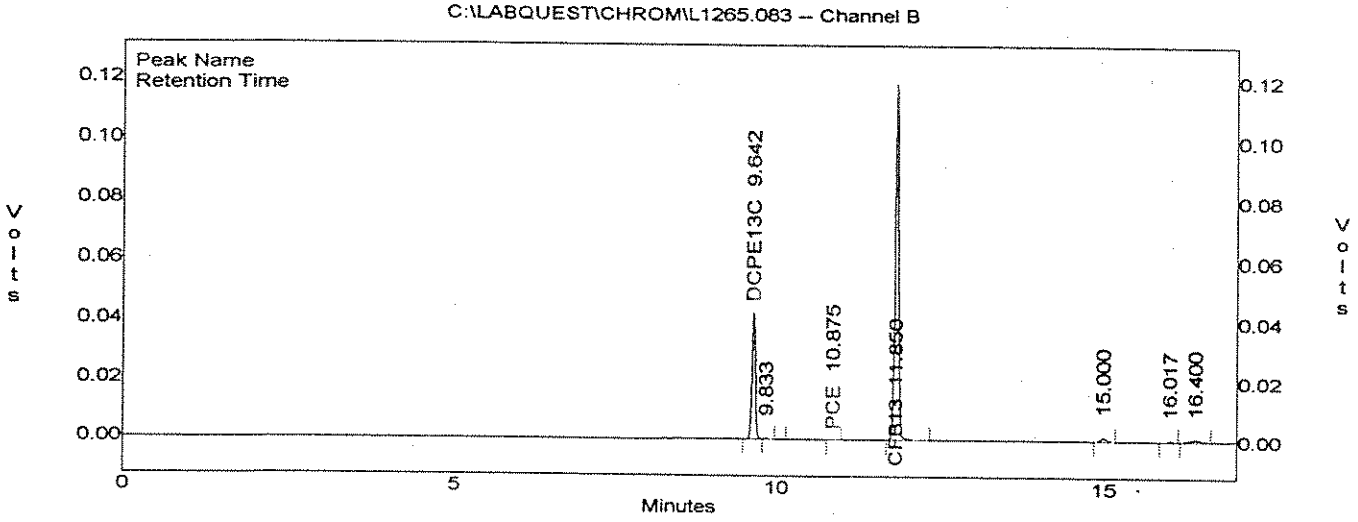
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.342	15525	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
2	TCE	8.342	571	0.054	0
3		8.625	4693	0.000	0
4	DCPE13C	9.675	1147760	970.051	0
5		10.575	12058	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
6	CFB13	11.892	529593	927.585	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

	1710201	1897.690

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.083
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : sv-30-5
Acquired : Dec 22, 1995 08:41:33
Printed : Dec 22, 1995 08:59:54
User : PAS



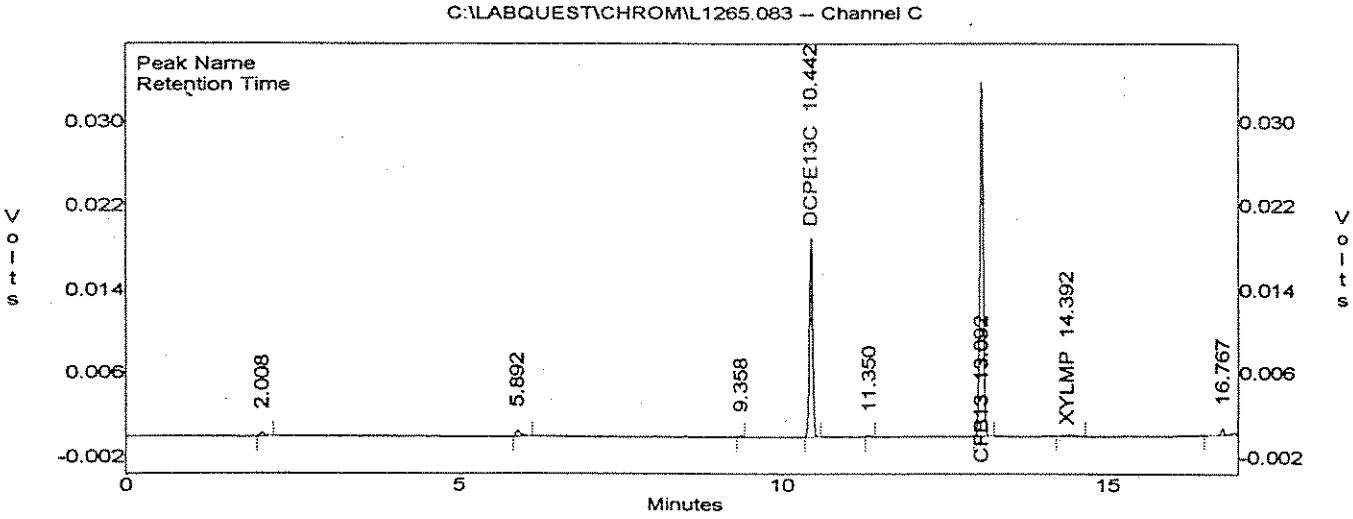
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
--	DCE11	3.890	0	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
1	DCPE13C	9.642	158935	804.289	0
2		9.833	1407	0.000	0
--	TOL	10.050	0	0.000	0
3	PCE	10.875	698	0 ~~.227~~ Not on Hall PID	0
4	CFB13	11.850	480412	813.440	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
5		15.000	8886	0.000	0
6		16.017	1540	0.000	0
7		16.400	8471	0.000	0

Totals :

660351 1617.956

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.083
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : sv-30-5
Acquired : Dec 22, 1995 08:41:33
Printed : Dec 22, 1995 08:59:55
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.008	1598	0.000	0
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
2		5.892	3031	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
3		9.358	535	0.000	0
--	TCE	9.520	0	0.000	0
4	DCPE13C	10.442	66579	1010.177	0
--	TCA112	11.110	0	0.000	0
5		11.350	562	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
6	CFB13	13.092	122053	1010.017	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
7	XYLMP	14.392	1268	~~0.856~~ No peak	0
--	XYLO	14.830	0	0.000 PS	0
8		16.767	3436	0.000	0

Totals :

	199065	2021.050

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-13-5

Time Sampled: 0856

Date Sampled: 12-22-95

Probe Depth (ft): 5

Sampled by: BV

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: sunny

Air Temp (F): 65

Ground Surface: Asphalt

Wind dir/speed: calm

Sample Parameters

Probe Volume (ml): 80

Purge Volume (liters): 400 ml

Purge Time: 2sec.

Notes:

Max. Purge Vacuum (in. Hg): 13

Equilibrium Time: 2sec

Sample Volume (ml): 20

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Date: 12-22-95 Time: 0903

Volume Analyzed (ml): 1.0

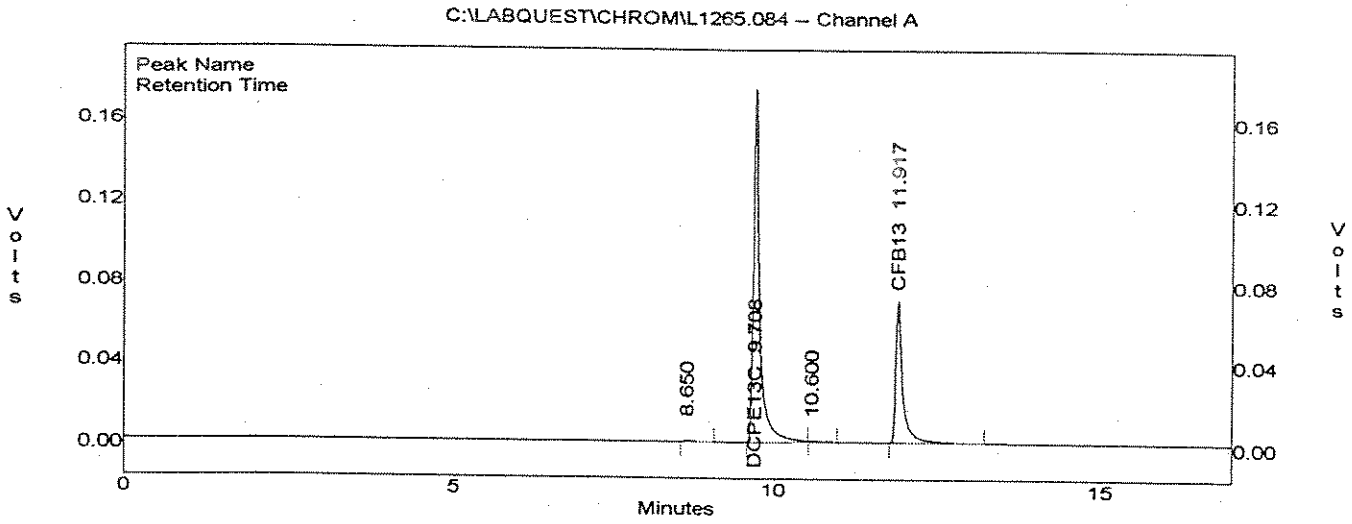
Time Injected: 0904 Loop #: manual

Compound	Concentration (ug/1)		Compound	Concentration (ug/1)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 101 94 % PID: 78 79 % FID: 99 101 %

Report PID compounds from ~~surrogate~~ FID due to low surrogate recoveries.

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.084
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-13-5
Acquired : Dec 22, 1995 09:05:30
Printed : Dec 22, 1995 09:33:44
User : PAS



Channel A Results

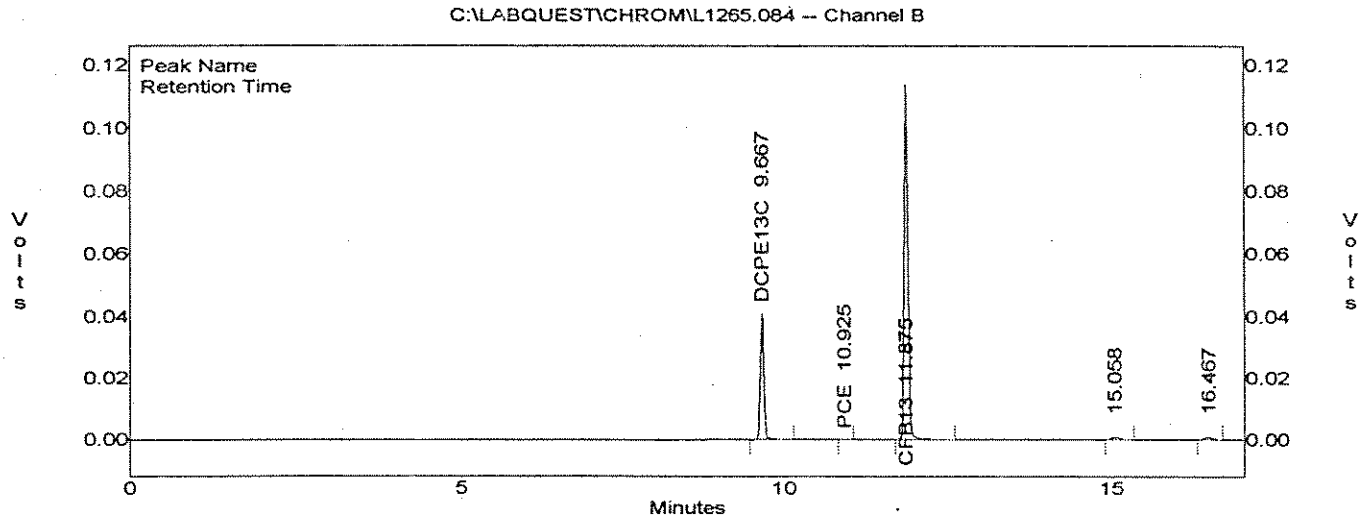
peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
--	DCE12C	6.220	0	0.000	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
--	DCA12	7.390	0	0.000	0
--	TCE	8.220	0	0.000	0
1		8.650	6432	0.000	0
2	DCPE13C	9.708	1199751	1013.992	0
3		10.600	8217	0.000	0
--	TCA112	10.760	0	0.000	0
--	PCE	10.910	0	0.000	0
4	CFB13	11.917	535345	937.661	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

	1749747	1951.653

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.084
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-13-5
Acquired : Dec 22, 1995 09:05:30
Printed : Dec 22, 1995 09:33:48
User : PAS



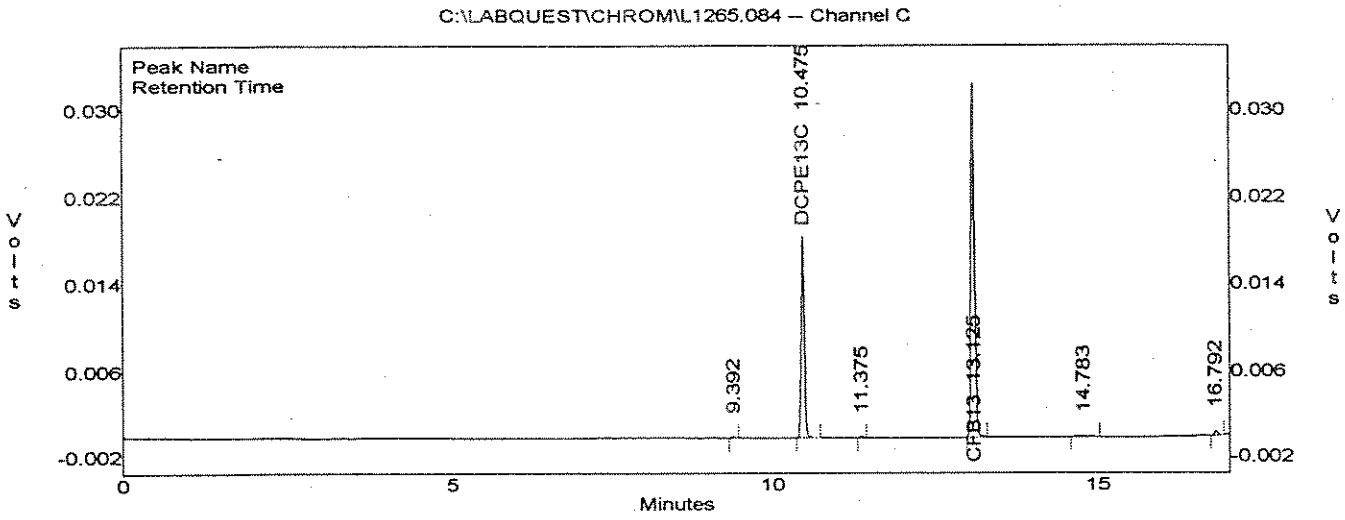
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
--	VC	2.090	0	0.000	0
--	DCE11	3.890	0	0.000	0
--	DCE12T	4.910	0	0.000	0
--	DCE12C	6.190	0	0.000	0
--	BNZ	7.300	0	0.000	0
--	TCE	8.180	0	0.000	0
1	DCPE13C	9.667	153980	779.216	0
--	TOL	10.050	0	0.000	0
2	PCE	10.925	718	0.233	0
3	CFB13	11.875	468249	792.846	0
--	EB	12.440	0	0.000	0
--	XYLMP	12.650	0	0.000	0
--	XYLO	13.320	0	0.000	0
4		15.058	7773	0.000	0
5		16.467	6732	0.000	0

Totals :

	637453	1572.295

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.084
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-13-5
Acquired : Dec 22, 1995 09:05:30
Printed : Dec 22, 1995 09:33:49
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
--	FR12	2.950	0	0.000	0
--	VC	3.640	0	0.000	0
--	CLET	4.450	0	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
1		9.392	518	0.000	0
--	TCE	9.520	0	0.000	0
2	DCPE13C	10.475	65049	986.967	0
--	TCA112	11.110	0	0.000	0
3		11.375	546	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
4	CFB13	13.125	122020	1009.739	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
--	XYLMP	14.230	0	0.000	0
5		14.783	1359	0.000	0
--	XYLO	14.830	0	0.000	0
6		16.792	1543	0.000	0

Totals :

		191036	1996.706

HYDRO GEO CHEM, INC.

Field Data Sheet

Project Name: FUGRO/BURBANK

Project No.: L12 65

Sample I.D.: SV-14-5

Probe Depth (ft): 5

Time Sampled: 0915

Sampled by: BV

Date Sampled: 12-22-95

Matrix: Soil Gas (x) Soil ( ) Water ( )

Field Parameters

Weather: Sunny

Ground Surface: Asphalt

Air Temp (F): 66

Wind dir/speed: Calm

Sample Parameters

Probe Volume (ml): 80

Max. Purge Vacuum (in. Hg): 13

Purge Volume (liters): 400 ml

Equilibrium Time: 2 sec

Purge Time: 2 sec

Sample Volume (ml): 20

Notes:

Syringe ID: a: b:

Analytical Summary

Chemist: P. Schumann

Volume Analyzed (ml): 1.0

Date: 12-22-95 Time: 0918

Time Injected: 0927

Loop #: manual

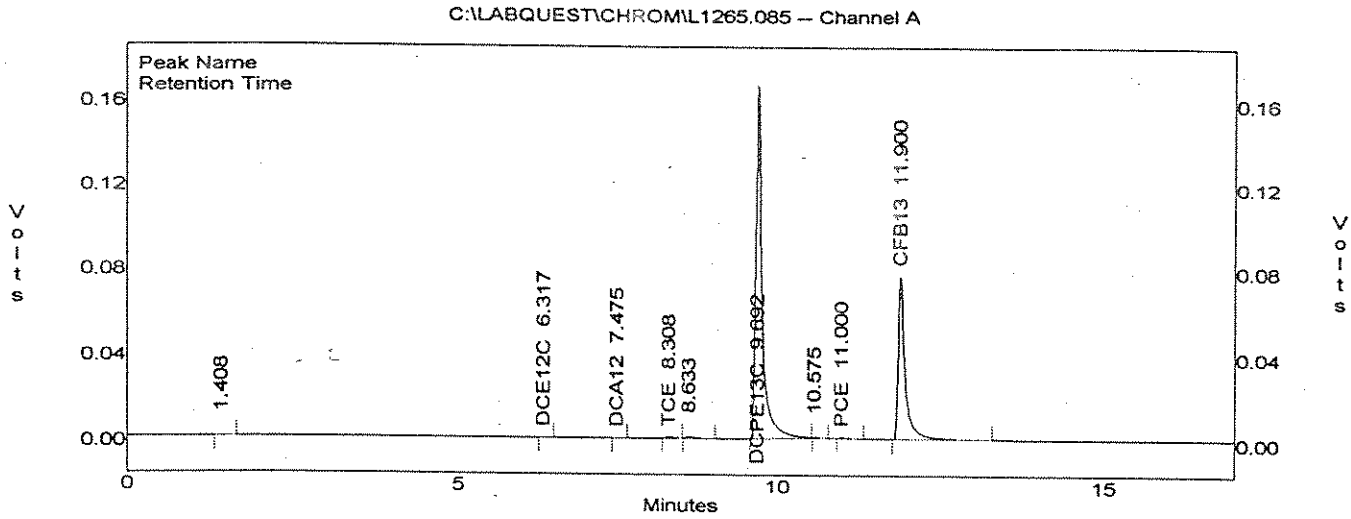
Compound	Concentration (ug/l)		Compound	Concentration (ug/l)	
Freon 12	<1		Tetrachloroethene	<1	
Vinyl Chloride	<1		1,1,1,2 PCA	<1	
Chloroethane	<1		1,1,2,2 PCA	<1	
Freon 11	<1		1,1-Dichloroethene	<1	
Dichloromethane	<1		Benzene	<1	
trans-1,2-Dichloroethene	<1		Toluene	<1	
1,1-Dichloroethane	<1		Ethyl Benzene	<1	
cis-1,2-Dichloroethene	<1		m/p-xylene	<1	
Chloroform	<1		o-Xylene	<1	
1,1,1-trichloroethane	<1				
Carbon Tetrachloride	<1				
1,2-Dichloroethane	<1		Freon 113	<1	
Trichloroethene	<1				
1,1,2-Trichloroethane	<1				

Surrogate Recovery ELCD: 96 100 % PID: 80 80 % FID: 99 102 %

93 88 78 77 100 102

BGPAA 0499

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.085
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-14-5
Acquired : Dec 22, 1995 09:30:43
Printed : Dec 22, 1995 09:53:32
User : PAS



Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.408	1476	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
--	DCE11+FR113	3.940	0	0.000	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
2	DCE12C	6.317	687	0.076	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
3	DCA12	7.475	661	0.065	0
4	TCE	8.308	5350	0.506	0
5		8.633	7322	0.000	0
6	DCPE13C	9.692	1134501	958.845	0
7		10.575	3616	0.000	0
--	TCA112	10.760	0	0.000	0
8	PCE	11.000	3476	0.229	0
9	CFB13	11.900	570703	999.590	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

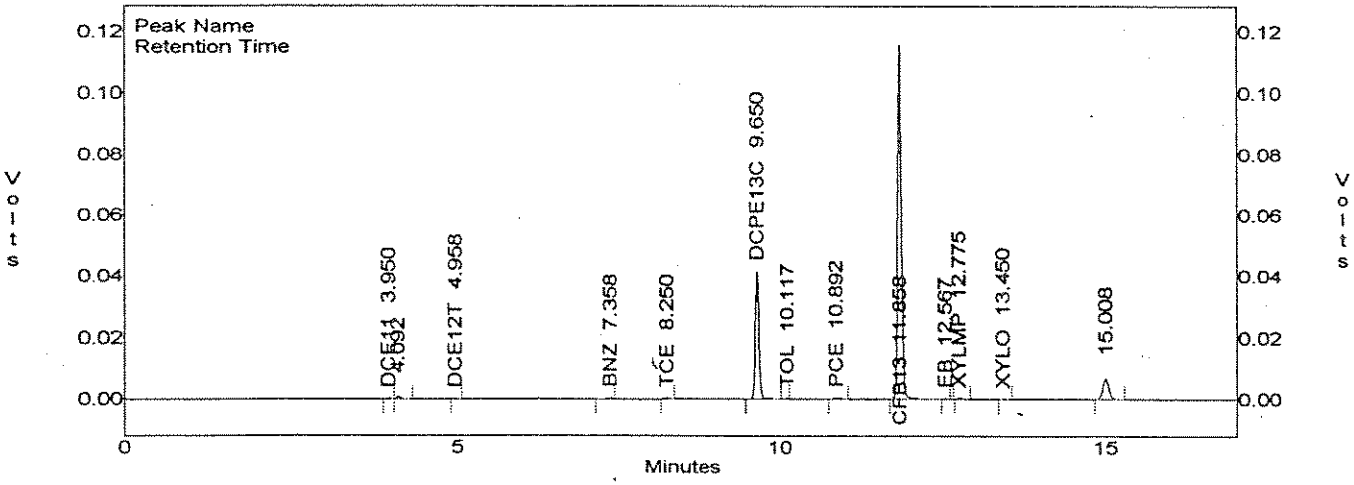
Totals :

	1727795	1959.312

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.085
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-14-5
Acquired : Dec 22, 1995 09:30:43
Printed : Dec 22, 1995 09:53:36
User : PAS

C:\LABQUEST\CHROM\L1265.085 – Channel B

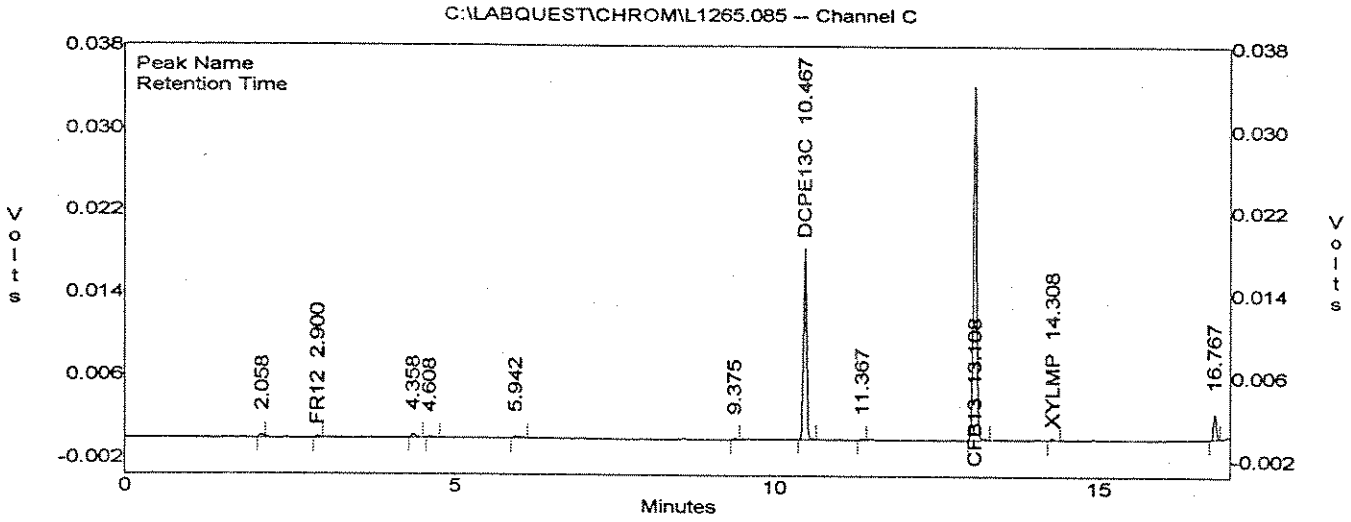


Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf	
--	VC	2.090	0	0.000	0	
1	DCE11	3.950	943	~~0.327~~ Not on Hall	0	
2		4.092	3672	0.000	0	
3	DCE12T	4.958	758	0.127	0	
--	DCE12C	6.190	0	0.000	0	
4	BNZ	7.358	918	0.138	0	
5	TCE	8.250	1473	0.391	0	
6	DCPE13C	9.650	156109	789.988	0	
7	TOL	10.117	~~154738~~	~~27.905~~ Not FID	0	area wrong for
8	PCE	10.892	3050	0.992	0	peak size
9	CFB13	11.858	470366	796.431	0	
10	EB	12.567	639	0.114	0	see duplicate
11	XYLMP	12.775	1981	0.339	0	
12	XYLO	13.450	845	0.148	0	
13		15.008	44711	0.000	0	

Totals : 840207 1616.901

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.085
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-14-5
Acquired : Dec 22, 1995 09:30:43
Printed : Dec 22, 1995 09:53:38
User : PAS



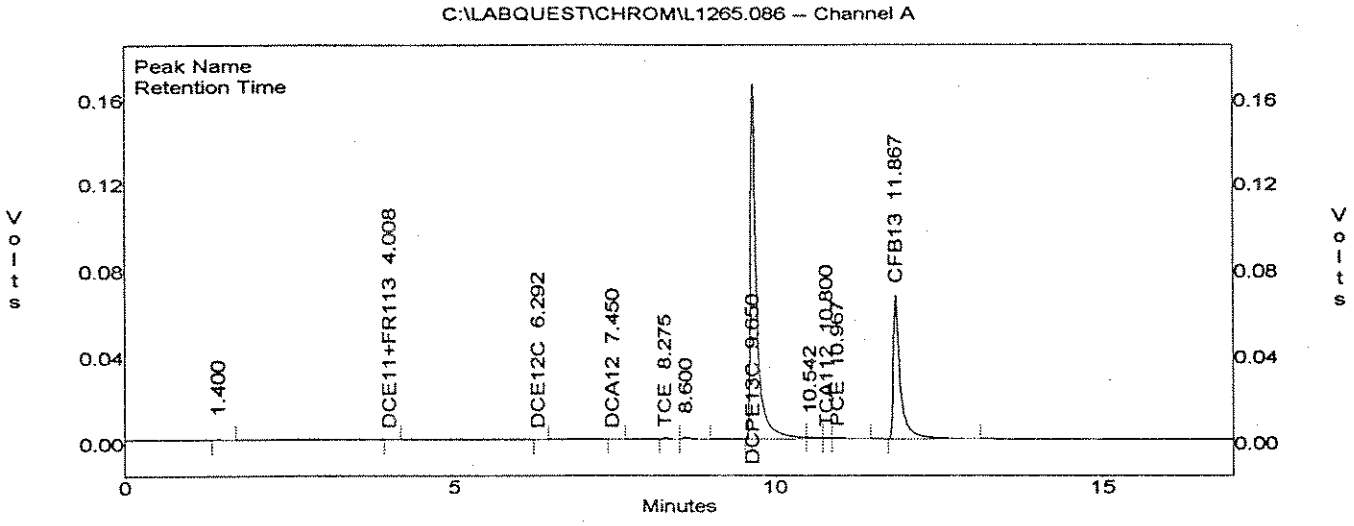
Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.058	1246	0.000	0
2	FR12	2.900	670	~~1.296~~ PS	0
--	VC	3.640	0	0.000	0
3		4.358	1400	0.000	0
--	CLET	4.450	0	0.000	0
4		4.608	601	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
5		5.942	1266	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
--	BNZ	8.530	0	0.000	0
--	CBTC	8.660	0	0.000	0
6		9.375	538	0.000	0
--	TCE	9.520	0	0.000	0
7	DCPE13C	10.467	65060	987.138	0
--	TCA112	11.110	0	0.000	0
8		11.367	556	0.000	0
--	TOL	11.430	0	0.000	0
--	PCE	12.710	0	0.000	0
9	CFB13	13.108	123583	1022.674	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
10	XYLMP	14.308	870	0.587	0
--	XYLO	14.830	0	0.000	0
11		16.767	7503	0.000	0

Totals :

	203295	2011.695

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.086
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-14-5
Acquired : Dec 22, 1995 09:54:13
Printed : Dec 22, 1995 10:11:38
User : PAS



Channel A Results

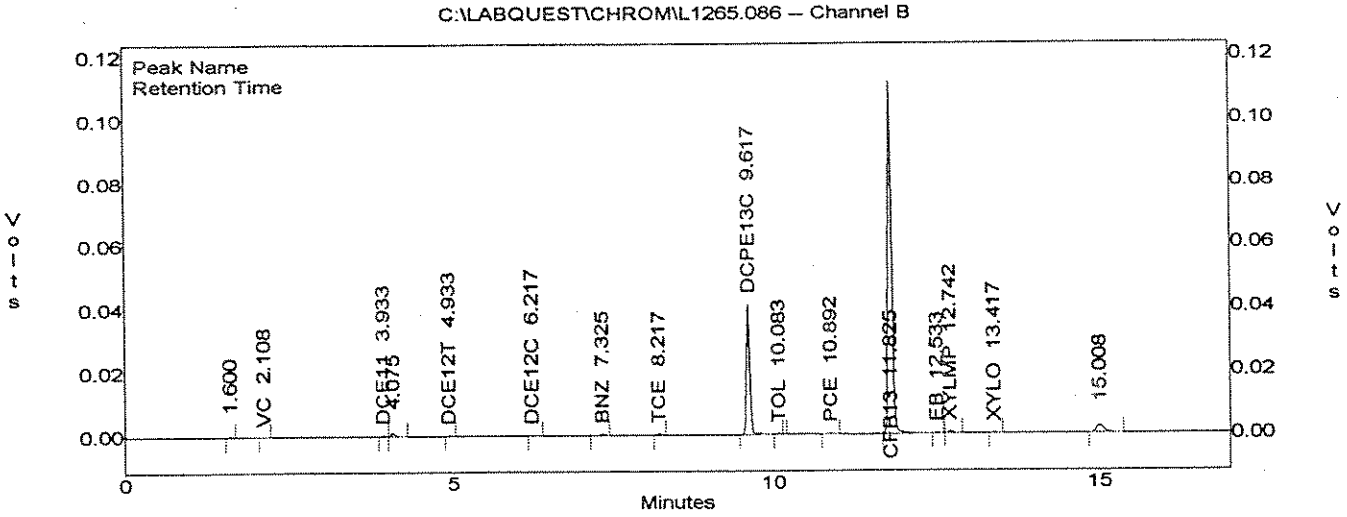
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.400	2079	0.000	0
--	FR12	1.630	0	0.000	0
--	VC	2.130	0	0.000	0
--	CLET	2.820	0	0.000	0
--	FR11	3.210	0	0.000	0
2	DCE11+FR113	4.008	551	0.076	0
--	DCM	4.610	0	0.000	0
--	DCE12T	4.940	0	0.000	0
--	DCA11	5.480	0	0.000	0
3	DCE12C	6.292	597	0.066	0
--	CLFM	6.660	0	0.000	0
--	TCA111	6.840	0	0.000	0
--	CBTC	7.050	0	0.000	0
4	DCA12	7.450	705	0.069	0
5	TCE	8.275	5023	0.475	0
6		8.600	6783	0.000	0
7	DCPE13C	9.650	1104673	933.635	0
8		10.542	8874	0.000	0
9	TCA112	10.800	3437	0.188	0
10	PCE	10.967	8454	0.556	0
11	CFB13	11.867	501716	878.760	0
--	PCA1112	12.490	0	0.000	0
--	PCA1122	14.700	0	0.000	0

Totals :

	1642897	1813.826

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.086
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-14-5
Acquired : Dec 22, 1995 09:54:13
Printed : Dec 22, 1995 10:11:41
User : PAS



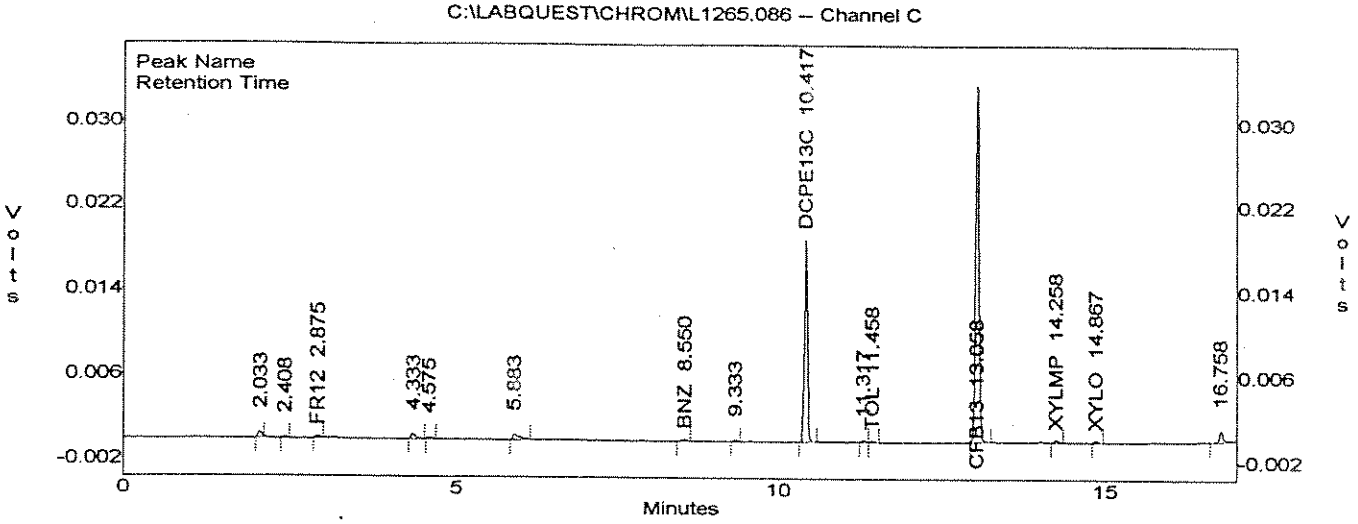
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1		1.600	715	0.000	0
2	VC	2.108	560	0.568	0
3	DCE11	3.933	1513	0.525	0
4		4.075	5189	0.000	0
5	DCE12T	4.933	771	0.129	0
6	DCE12C	6.217	673	0.203	0
7	BNZ	7.325	1434	0.216	0
8	TCE	8.217	1571	0.418	0
9	DCPE13C	9.617	153635	777.470	0
10	TOL	10.083	1163	0.210	0
11	PCE	10.892	2035	0.662	0
12	CFB13	11.825	457480	774.612	0
13	EB	12.533	861	0.153	0
14	XYLMP	12.742	2941	0.504	0
15	XYLO	13.417	1402	0.245	0
16		15.008	20234	0.000	0

Totals :

	652182	1555.915

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.086
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-14-5
Acquired : Dec 22, 1995 09:54:13
Printed : Dec 22, 1995 10:11:43
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		2.033	2291	0.000	0
2		2.408	549	0.000	0
3	FR12	2.875	942	1.822	0
--	VC	3.640	0	0.000	0
4		4.333	2298	0.000	0
--	CLET	4.450	0	0.000	0
5		4.575	655	0.000	0
--	DCE11+DCM	5.050	0	0.000	0
--	FR11	5.170	0	0.000	0
--	FR113	5.420	0	0.000	0
6		5.883	3505	0.000	0
--	DCE12T	6.010	0	0.000	0
--	DCA11	6.190	0	0.000	0
--	DCE12C	6.930	0	0.000	0
--	CLFM	7.190	0	0.000	0
--	DCA12	7.850	0	0.000	0
--	TCA111	8.100	0	0.000	0
7	BNZ	8.550	732	0.484	0
--	CBTC	8.660	0	0.000	0
8		9.333	562	0.000	0
--	TCE	9.520	0	0.000	0
9	DCPE13C	10.417	65676	996.476	0
--	TCA112	11.110	0	0.000	0
10		11.317	608	0.000	0
11	TOL	11.458	555	0.368	0
--	PCE	12.710	0	0.000	0
12	CFB13	13.058	123159	1019.169	0
--	PCA1112	13.490	0	0.000	0
--	PCA1122+EB	14.000	0	0.000	0
13	XYLMP	14.258	1192	0.805	0
14	XYLO	14.867	736	0.433	0
15		16.758	4527	0.000	0

Continued...

File : C:\LABQUEST\CHROM\L1265.086
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : SV-14-5
Acquired : Dec 22, 1995 09:54:13
Printed : Dec 22, 1995 10:11:45
User : PAS

Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
Totals :					
			207992	2019.557	

HYDRO GEO CHEM, INC.

DAILY CALIBRATION CHECK
Project: FUGRO/BURBANK, CA
Project #: L1265

Date Calibrated: December 20, 1995.
Analyst: P. Schumann
Instrument ID#: 3400-4199

Date:	12-22-95
Time:	06:29
Labquest File number:	L1265.078
Volume injected(ul):	200
Standard Used:	CAL9516

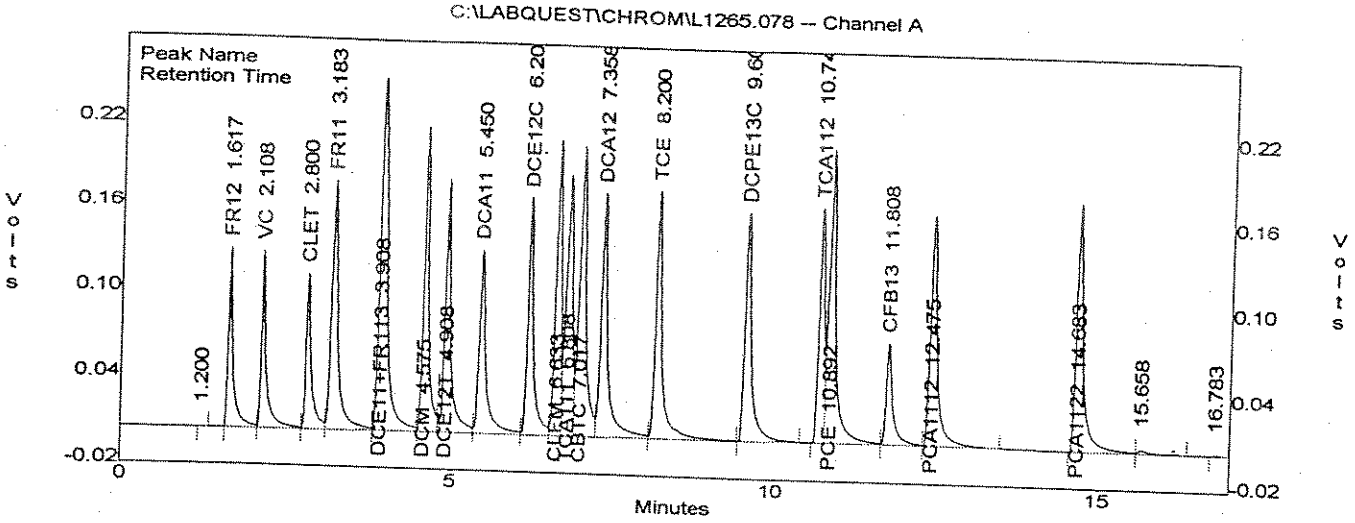
Compound Name	Detector	Retention Time	Mass Injected(ug)	Area measured	Rf	Rf (IC)	RPD	Control Limits (%)
Dichlorodifluoromethane	ELCD	1.6	0.1012	620262	1.6E-07	1.4E-07	-17	+/- 25
Vinyl Chloride	ELCD	2.09	0.1016	652178	1.6E-07	1.3E-07	-20	+/- 25
Chloroethane	ELCD	2.78	0.102	610802	1.7E-07	1.5E-07	-11	+/- 25
Trichlorofluoromethane	ELCD	3.17	0.1028	1236238	8.3E-08	8.3E-08	-0	+/- 25
Dichloromethane	ELCD	4.56	0.1018	1192057	8.5E-08	1E-07	15	+/- 15
trans-1,2-Dichloroethene	**ELCD**	**4.89**	**0.0986**	**1126388**	**8.8E-08**	**9.4E-08**	**7**	+/- 15
1,1-Dichloroethane	**ELCD**	5.43	0.0872	**971886**	9E-08	9.4E-08	**5**	+/- 15
cis-1,2-Dichloroethene	**ELCD**	6.18	0.102	**1056504**	9.7E-08	1E-07	**3**	+/- 15
Chloroform	ELCD	6.61	0.105	1172600	9E-08	8.8E-08	-2	+/- 15
1,1,1-Trichloroethane	**ELCD**	**6.79**	**0.1048**	**1306713**	**8E-08**	**8.6E-08**	**7**	+/- 15
Carbon Tetrachloride	ELCD	6.99	0.102	**1594424**	6.4E-08	7.1E-08	10	+/- 15
1,2-Dichloroethane	**ELCD**	**7.33**	**0.1022**	**1271875**	**8E-08**	**8.6E-08**	**7**	+/- 15
Trichloroethene	**ELCD**	**8.17**	**0.1002**	**1282036**	**7.8E-08**	**8.2E-08**	**5**	+/- 15
1,1,2 Tetrachloroethane	**FID**	**11.04**	**0.101**	**31632**	**3.2E-06**	**3.3E-06**	**4**	+/- 15
Tetrachloroethene	**ELCD**	**10.86**	**0.1006**	**1612157**	**6.2E-08**	**5.7E-08**	**-9**	+/- 15
1112 tetrachloroethane	ELCD	12.45	0.1008	1217962	8.3E-08	8.2E-08	-1	+/- 15
1122 tetrachloroethane	ELCD	14.67	0.1024	1267213	8.1E-08	9E-08	10	+/- 15
1,1-Dichloroethene + F113	ELCD	3.89	0.2036	2012815	1E-07	1.1E-07	8	+/- 15
1,1-Dichloroethene	PID	3.84	0.1008	236033	4.3E-07	4.2E-07	-2	+/- 15
1,1-Dichloroethene + DCM	FID	5	0.2026	43305	4.7E-06	4.9E-06	5	+/- 15
Benzene	**PID**	**7.24**	**0.1038**	**616130**	**1.7E-07**	**1.6E-07**	**-5**	+/- 15
Toluene	**FID**	**10**	**0.102**	**157750**	**6.5E-07**	**6.1E-07**	**-6**	+/- 15
Ethyl Benzene	PID	12.46	0.103	548931	1.9E-07	1.8E-07	-4	+/- 15
Ethyl Benzene + 1122 Tetrachloroethane	FID	13.96	0.2054	149339	1.4E-06	1.3E-06	-6	+/- 15
m/p-Xylene	**PID**	**12.68**	**0.2056**	**1281471**	**1.6E-07**	**1.5E-07**	**-7**	+/- 15
o-Xylene	**FID**	**14.77**	**0.103**	**192367**	**5.4E-07**	**5.7E-07**	**5**	+/- 15
1,1,2-Trichlorotrifluoroethane	FID	5.35	0.1026	18881	5.4E-06	5.9E-06	8	+/- 25

Compounds in bold type are required by RWQCB

BGPAA 0507

Preliminary Data

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD
File : C:\LABQUEST\CHROM\L1265.078
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 200UL CAL9516
Acquired : Dec 22, 1995 06:29:26
Printed : Dec 22, 1995 07:05:39
User : PAS



Channel A Results

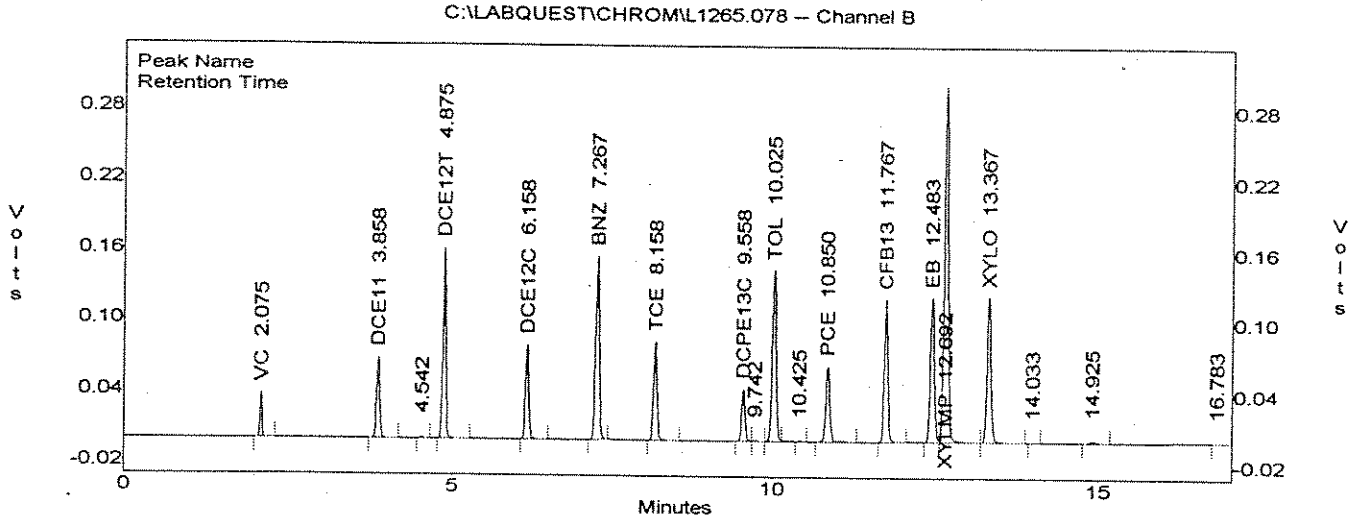
peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.200	891	0.000	0
2	FR12	1.617	620262	0.087	0
3	VC	2.108	652178	0.094	0
4	CLET	2.800	610802	0.096	0
5	FR11	3.183	1236238	0.113	0
6	DCE11+FR113	3.908	2012815	0.278	0
7	DCM	4.575	1192057	0.128	0
8	DCE12T	4.908	1126388	0.119	0
9	DCA11	5.450	971886	0.094	0
10	DCE12C	6.200	1056504	0.117	0
11	CLFM	6.633	1172600	0.101	0
12	TCA111	6.808	1306713	0.125	0
13	CBTC	7.017	1594424	0.130	0
14	DCA12	7.358	1271875	0.125	0
15	TCE	8.200	1282036	0.121	0
16	DCPE13C	9.600	1100517	0.930	0
17	TCA112	10.742	902154	0.049	0
18	PCE	10.892	1612157	0.106	0
19	CFB13	11.808	527141	0.923	0
20	PCA1112	12.475	1217962	0.113	0
21	PCA1122	14.683	1267213	0.127	0
22		15.658	30432	0.000	0
23		16.783	3344	0.000	0

Totals :

22768598 3.978

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.078
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 200UL CAL9516
Acquired : Dec 22, 1995 06:29:26
Printed : Dec 22, 1995 07:05:44
User : PAS



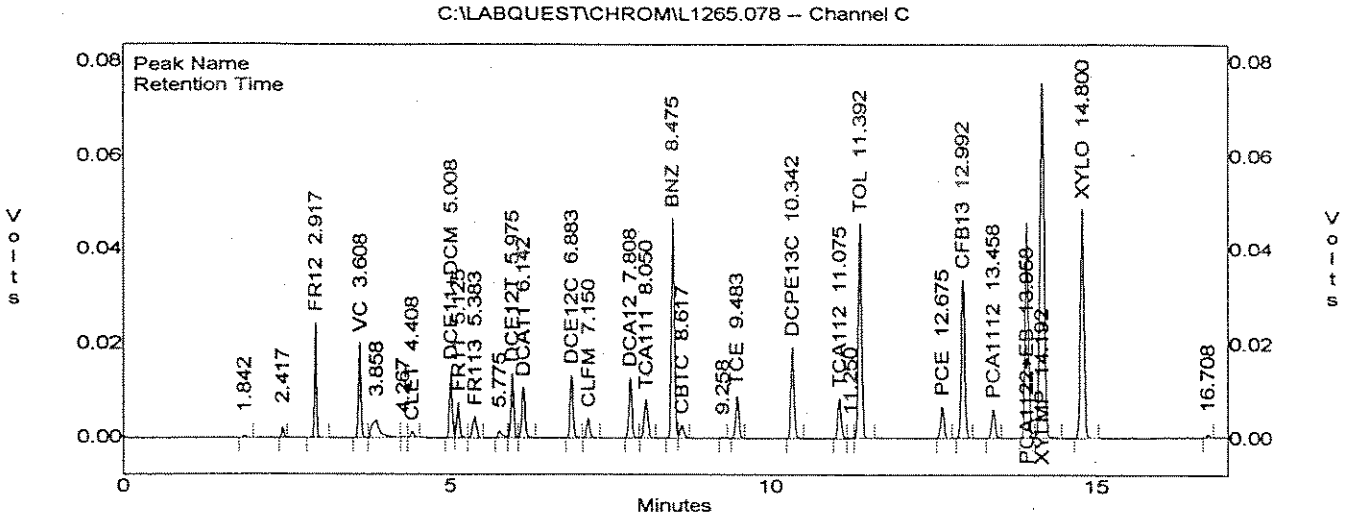
Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1	VC	2.075	77051	0.078	0
2	DCE11	3.858	236033	0.082	0
3		4.542	4451	0.000	0
4	DCE12T	4.875	510039	0.086	0
5	DCE12C	6.158	279170	0.084	0
6	BNZ	7.267	616130	0.093	0
7	TCE	8.158	321164	0.085	0
8	DCPE13C	9.558	163099	0.825	0
9		9.742	1466	0.000	0
10	TOL	10.025	582921	0.105	0
11		10.425	683	0.000	0
12	PCE	10.850	267474	0.087	0
13	CFB13	11.767	487099	0.825	0
14	EB	12.483	548931	0.098	0
15	XYLMP	12.692	1281471	0.220	0
16	XYLO	13.367	530223	0.093	0
17		14.033	526	0.000	0
18		14.925	10522	0.000	0
19		16.783	579	0.000	0

Totals :

	5919039	2.760

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel C: FID
File : C:\LABQUEST\CHROM\L1265.078
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 200UL CAL9516
Acquired : Dec 22, 1995 06:29:26
Printed : Dec 22, 1995 07:05:46
User : PAS



Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.842	1258	0.000	0
2		2.417	4708	0.000	0
3	FR12	2.917	51869	0.100	0
4	VC	3.608	51314	0.102	0
5		3.858	31416	0.000	0
6		4.267	730	0.000	0
7	CLET	4.408	4552	0.112	0
8	DCE11+DCM	5.008	43305	0.213	0
9	FR11	5.125	21344	0.106	0
10	FR113	5.383	18881	0.102	0
11		5.775	6621	0.000	0
12	DCE12T	5.975	41346	0.104	0
13	DCA11	6.142	36721	0.091	0
14	DCE12C	6.883	42888	0.106	0
15	CLFM	7.150	14363	0.111	0
16	DCA12	7.808	42990	0.107	0
17	TCA111	8.050	32802	0.108	0
18	BNZ	8.475	164476	0.109	0
19	CBTC	8.617	10852	0.108	0
20		9.258	542	0.000	0
21	TCE	9.483	31272	0.105	0
22	DCPE13C	10.342	66883	1.015	0
23	TCA112	11.075	31632	0.107	0
24		11.250	591	0.000	0
25	TOL	11.392	163470	0.108	0
26	PCE	12.675	25540	0.107	0
27	CFB13	12.992	121587	1.006	0
28	PCA1112	13.458	24497	0.107	0
29	PCA1122+EB	13.958	166059	0.222	0
30	XYLMP	14.192	333835	0.225	0
31	XYLO	14.800	192367	0.113	0
32		16.708	1935	0.000	0

Continued...

File : C:\LABQUEST\CHROM\L1265.078
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 200UL CAL9516
Acquired : Dec 22, 1995 06:29:26
Printed : Dec 22, 1995 07:05:48
User : PAS

Channel C Results

peak	Compound	RT	area	Conc (ug/l)	Rf
Totals :					
			1782659	4.695	

HYDRO GEO CHEM, INC.

LCS Results
Project #: L1265
Fugro/Burbank
Instrument ID#: 3400-4199

Date Analyzed:	12-22-95
Time Analyzed:	06:57
Labquest File #:	L1265.079
Standard Used:	CAL9517
Volume used:	1000ul

Compound Name		Retention Time	Mass Injected	Area	Rf	Rf(IC)	RPD	Control Limits (%)	Comments
Dichlorodifluoromethane	ELCD	1.71	0.113	792843	1.4E-07	1.4E-07	-2	+/- 25	
Vinyl Chloride	ELCD	2.19	0.116	862955	1.3E-07	1.3E-07	-3	+/- 25	
Chloroethane	ELCD	2.86	0.12	839830	1.4E-07	1.5E-07	5	+/- 25	
Trichlorofluoromethane	ELCD	3.25	0.104	1116955	9.3E-08	8.3E-08	-12	+/- 25	
Dichloromethane	ELCD	4.62	0.0985	925563	1.1E-07	1E-07	-6	+/- 15	
trans-1,2-Dichloroethene	ELCD	4.96	0.099	1037615	9.5E-08	9.4E-08	-2	+/- 15	
1,1-Dichloroethane	ELCD	5.49	0.0996	964764	1E-07	9.4E-08	-10	+/- 15	
cis-1,2-Dichloroethene	ELCD	6.24	0.1	912570	1.1E-07	1E-07	-10	+/- 15	
Chloroform	ELCD	6.67	0.0995	973614	1E-07	8.3E-08	-16	+/- 15	See FID data
Chloroform	FID	6.67	0.0995	11841	8.4E-06	7.7E-06	-9	+/- 15	
1,1,1-Trichloroethane	ELCD	6.85	0.0985	1061550	9.3E-08	8.6E-08	-8	+/- 15	
Carbon Tetrachloride	ELCD	7.06	0.102	1404014	7.3E-08	7.1E-08	-2	+/- 15	
1,2-Dichloroethane	ELCD	7.39	0.1	1118374	8.9E-08	8.6E-08	-4	+/- 15	
Trichloroethene	ELCD	8.23	0.0994	1127038	8.8E-08	8.2E-08	-8	+/- 15	
1,1,2-Trichloroethane	FID	11.11	0.1	29167	3.4E-06	3.4E-06	-1	+/- 15	
Tetrachloroethene	ELCD	10.93	0.1	1478475	6.8E-08	5.7E-08	-19	+/- 15	
1112 tetrachloroethane	ELCD	12.51	0.0994	1154401	8.6E-08	8.2E-08	-5	+/- 15	
1122 tetrachloroethane	ELCD	14.72	0.102	1092736	9.3E-08	9E-08	-4	+/- 15	
1,1-Dichloroethene + F113	ELCD	3.97	0.2034	1671179	1.2E-07	1.1E-07	-11	+/- 15	
1,1-Dichloroethene	PID	3.92	0.1	183367	5.5E-07	4.1E-07	-33	+/- 15	Use Hall & FID data to confirm and report concentrations.
1,1-Dichloroethene + DCM	FID	5.05	0.1985	40595	4.9E-06	4.9E-06	0	+/- 15	
Benzene	PID	7.3	0.104	529534	2E-07	1.6E-07	-23	+/- 15	See FID data
Benzene	FID	8.51	0.104	149812	6.9E-07	6.6E-07	-5	+/- 15	
Toluene	FID	10.06	0.104	149931	6.9E-07	6.6E-07	-5	+/- 15	
Ethyl Benzene	PID	12.52	0.102	440587	2.3E-07	1.8E-07	-29	+/- 15	See FID data
Ethyl Benzene +1122PCA	FID	13.99	0.204	149339	1.4E-06	1.3E-06	-5	+/- 15	
m/p-Xylene	PID	12.73	0.207	1122557	1.8E-07	1.7E-07	-8	+/- 15	
o-Xylene	FID	14.83	0.102	176798	5.8E-07	5.9E-07	2	+/- 15	
1,1,2-Trichlorotrifluoroethane	FID	5.42	0.0996	16028	6.2E-06	5.9E-06	-5	+/- 25	

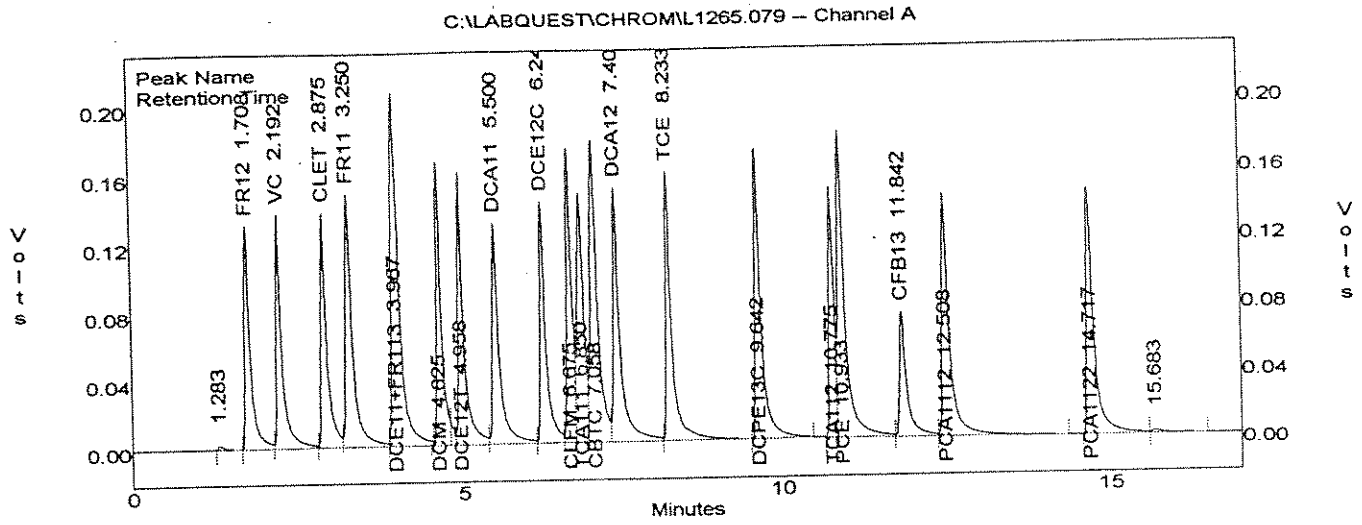
Shaded data exceeded control limits.

BGPAA 0512

Prel ary

Hydro Geo Chem, Inc.
Huntington Beach, California
ML-01, Channel A: HECD

File : C:\LABQUEST\CHROM\L1265.079
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 1000UL CAL9517 (LCS
Acquired : Dec 22, 1995 06:57:41
Printed : Dec 22, 1995 07:15:05
User : PAS

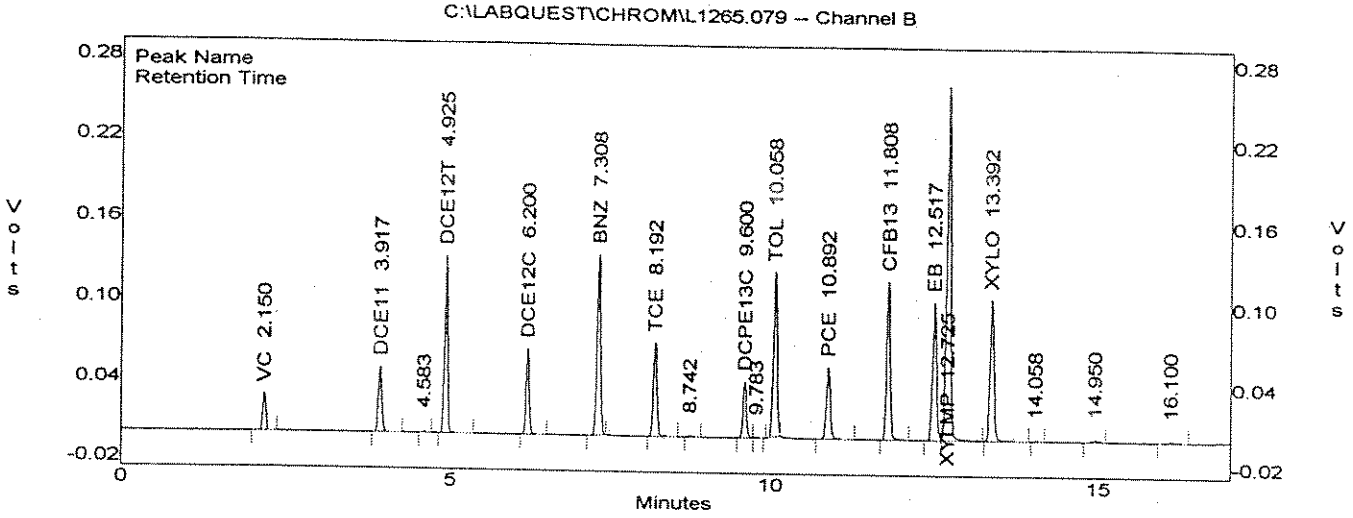


Channel A Results

peak	Compound	RT	area	Conc (ug/l)	Rf
1		1.283	17562	0.000	0
2	FR12	1.708	792843	0.111	0
3	VC	2.192	862955	0.124	0
4	CLET	2.875	839830	0.132	0
5	FR11	3.250	1116955	0.102	0
6	DCE11+FR113	3.967	1671179	0.231	0
7	DCM	4.625	925563	0.099	0
8	DCE12T	4.958	1037615	0.109	0
9	DCA11	5.500	964764	0.093	0
10	DCE12C	6.242	912570	0.101	0
11	CLFM	6.675	973614	0.084	0
12	TCA111	6.850	1061550	0.102	0
13	CBTC	7.058	1404014	0.115	0
14	DCA12	7.400	1118374	0.110	0
15	TCE	8.233	1127038	0.107	0
16	DCPE13C	9.642	1156557	0.977	0
17	TCA112	10.775	780772	~~0.043~~ Del FID PS	0
18	PCE	10.933	1478475	0.097	0
19	CFB13	11.842	557808	0.977	0
20	PCA1112	12.508	1154401	0.107	0
21	PCA1122	14.717	1092736	0.110	0
22		15.683	26057	0.000	0
Totals :			21073242	3.932	

Hydro Geo Chem, Inc.
Huntinton Beach, California
ML-01, Channel B: PID

File : C:\LABQUEST\CHROM\L1265.079
Method : C:\LABQUEST\METHODS\L1265_2.MET
Sample ID : 1000UL CAL9517 (LCS
Acquired : Dec 22, 1995 06:57:41
Printed : Dec 22, 1995 07:15:10
User : PAS



Channel B Results

peak	Compound	RT	area	Conc(ug/l)	Rf
1	VC	2.150	98981	0.100	0
2	DCE11	3.917	183387	0.064	0
3		4.583	3685	0.000	0
4	DCE12T	4.925	439128	0.074	0
5	DCE12C	6.200	229096	0.069	0
6	BNZ	7.308	529534	0.080	0
7	TCE	8.192	275177	0.073	0
8		8.742	4237	0.000	0
9	DCPE13C	9.600	162339	0.822	0
10		9.783	1537	0.000	0
11	TOL	10.058	486461	0.088	0
12	PCE	10.892	226012	0.073	0
13	CFB13	11.808	481791	0.816	0
14	EB	12.517	440587	0.078	0
15	XYLMP	12.725	1122557	0.192	0
16	XYLO	13.392	451738	0.079	0
17		14.058	806	0.000	0
18		14.950	9829	0.000	0
19		16.100	6420	0.000	0
Totals :			5153310	2.608	

95-36-1101

STATE OF CALIFORNIA—ENVIRONMENTAL PROTECTION AGENCY

PETE WILSON, Gov

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600

April 5, 1996

Mr. Dan Feger
Burbank-Glendale-Pasadena Airport Authority
2627 Hollywood Way
Burbank, CA 91505

NO FURTHER REQUIREMENTS/SUPPLEMENTAL SOIL GAS INVESTIGATION REPORT (File No. 104.1685)

We are in receipt of the "Supplemental Soil Vapor Surveys, Six Sites, Burbank-Glendale-Pasadena Airport, Burbank, California" report, dated January 1996, prepared by Fugro West, Inc. This report is in general accordance with requirements in our letter of October 25, 1995, to evaluate six areas (i.e., Old Trapper's property, former American Drug and Chemical, former paint storage area, former Bo Jamison Company wash rack, former Civil Air Patrol fire pit and former bunker simulated gasoline fire pit) within the limits of the Burbank Airport.

During this subsurface investigation, soil vapor samples were collected from depths of 5' and 15' below ground surface (bgs) at 38 probe locations at the six sites noted above. Seven VOCs (i.e, carbon tetrachloride, 1,1,1-TCA, TCE, PCE, toluene, ethylbenzene, xylenes) were detected in these soil gas samples. The highest VOC concentration detected was 11 ug/L 1,1,1-TCA

Results of this supplemental assessment work and previous subsurface investigations indicate that the minor soil contamination identified at the subject sites is below soil screening levels noted in our guidebook (Interim Site Assessment & Cleanup Guidebook, March 1996) and not a substantial threat to ground water quality. Therefore, no additional assessment or cleanup is necessary.

The jurisdictional requirements of other agencies, such as the U.S. Environmental Protection Agency, are not affected by the Board's "no further requirements" decision. Such agencies may choose to make their own determinations regarding the site.

p:\airport\nfa.2

ENSR INTERNATIONAL

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October 3, 2001
Project No. 01123-016
Work Order No. 29.1, Document No. 84

Mr. Alex Carlos
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013

Re: Environmental Monitoring Report, Former Plant B-6 - Building 360 Complex, Burbank, California

Dear Mr. Carlos:

On behalf of the Burbank-Glendale-Pasadena Airport Authority (BGPAA), ENSR is pleased to present the results of subsurface sampling and analysis on the former Lockheed Plant B-6 site, Building 360 Complex. The sampling was conducted as part of the on-going environmental monitoring on the B-6 property, associated with foundation and infrastructure demolition.

Background

During the past decade, the former Lockheed Plant B-6 site was the subject of several subsurface environmental assessments and remediation activities (Figure 1 – Site Vicinity Map). The Los Angeles Regional Water Quality Control Board (LARWQCB) has been the regulatory agency responsible for oversight of these environmental issues. The LARWQCB systematically reviewed all the environmental data from the various assessments and remediation efforts, and issued "no further action" (NFA) letters for the site in 1996.

In addition to the above, in a letter dated September 21, 1998, the LARWQCB requested that surface and shallow subsurface soil monitoring be conducted during foundation and infrastructure demolition on the property. The intent of this monitoring was to document the environmental condition of the shallow soils beneath site building slabs and foundations, as they are demolished.

The BGPAA has recently completed demolition of the former Building 360 Complex superstructures and substructure slabs and foundations. The asphalt paving throughout the area remains intact. During demolition, the surface and shallow subsurface soils beneath building slabs and foundations were inspected and sampled. This report documents the results of the environmental monitoring associated with demolition of the building slabs and foundations in the Building 360 Complex.

Scope of Work

Demolition was conducted between April and September 2001. Demolition activities included the removal of remaining buildings, slabs, and foundations on the City of Los Angeles portion of the B-6

site, commonly referred to as the Building 360 Complex and also referred to as parcels "F" and "G". During demolition activities, the soil beneath the slabs, foundation, and underground structures were inspected for the presence of contamination and/or hazardous materials. Inspection tools included visual observation, photoionization detector (PID) monitoring, and shallow soil sampling with headspace analysis.

During demolition, the soils immediately beneath the building slabs and foundations were visually observed for any evidence of discoloration, staining, odor, and/or contamination. PID readings of the ambient air were also collected during slab and foundation removal. A total of 35 shallow soil samples were collected on 100-foot centers from an average depth of 12 inches beneath the former building slabs and foundations. The location of these samples is illustrated on Figure 2 – PID Sample Locations. Headspace analysis of each sample was conducted for the presence organic vapors using a MSA Passport PID equipped with a 10.2 eV lamp.

Monitoring Results

During slab and foundation demolition, some soil coloration differences were observed. These color changes were generally associated with different backfill materials used at the time of construction. No unusual odor was indicated and PID readings of the ambient air immediately above these locations did not record a measurable presence of organic vapors.

The results of organic vapor analysis (PID readings) of the 35 shallow soil samples are summarized on Table 1 – Photoionization Detector - Organic Vapor Results. Only two sample locations recorded concentrations greater than 1.0 part-per-million (ppm). Sample location No. 3 recorded a reading of 1.8 ppm and sample location No. 4 recorded a reading of 2.0 ppm. All other samples were less than 1.0 ppm, with most locations recording a non-detected (ND) condition.

Previous Soil Vapor Results

In addition to the above recent monitoring results, ENSR has included shallow soil vapor results from previous surveys conducted in the Building 360 Complex. These data are included to provide a complete assessment picture of the environmental condition, including the areas beneath remaining asphalt pavement. The surveys were conducted by Tetra Tech in 1996 and ENSR in 1997.

A total of 180 shallow soil vapor probes are illustrated on Figure 3 – Soil Vapor Survey Locations. These soil vapor samples were generally collected at depths of 6 feet by Tetra Tech and at depths of 10 and 20 feet by ENSR. At the time of the surveys, soil vapor samples were analyzed on site for volatile organic compounds (VOC) in a mobile laboratory using EPA Method 8260. A summary of the analytical results are presented in Table 2 – Soil Vapor Analytical Results. Based on the relative absence of VOCs in the area, and for simplicity, the results are not reported as individual VOC concentrations but as a summation of VOC concentrations for each sample.

There has not been any active plant operations in the area since the surveys were conducted, therefore, the data may be considered valid. Without considering natural attenuation, the data may actually be considered conservatively high.

The data indicate that 46 out of 180 sample locations recorded some total VOC concentration greater than ND. Of the 46 positive responses, 40 locations recorded values less than 10 ug/l total VOC. The remaining 6 locations recorded total VOC concentrations ranging from 11.5 ug/l to a high of 52.3 ug/l at sample location GSV-059 at a depth of 10 feet. The 20-foot sample at location GSV-059 recorded a total VOC concentration of 22.4 ug/l, indicating a decreased concentration with depth.

Conclusions

The PID monitoring results and the previous soil vapor survey results indicate that all soil vapor concentrations were either ND or below levels which would suggest a source of VOC in the Building 360 Complex area. None of these data suggest the need for additional assessment or remediation.

Request for Closure

Based on the above monitoring data, and on behalf of the BGPAA, ENSR requests the LARWCQB issue a closure (no further requirements) of the Los Angeles portion of the B-6 property.

If you have any questions or require further clarification regarding the report or the data presented, please contact L. David Parker in our Glendale office at 818-546-2090.

Sincerely,

L. David Parker
Project Manager

D Peeples for
Tom Hale
Regional Construction Manager

cc: Mr. Dan Feger, BGPAA

TABLE 1
Photoionization Detector
Organic Vapor Results
Former Building 360 Complex

Sample Number	Sample Depth (feet below ground surface)	Photoionization Detector Reading (ppm)
1	1.0	0.1
2	1.0	0.6
3	1.0	1.8
4	1.0	2.0
5	1.0	0.8
6	1.0	0.6
7	1.0	0.2
8	1.0	ND
9	1.0	ND
10	1.0	ND
11	1.0	ND
12	1.0	ND
13	1.0	ND
14	1.0	ND
15	1.0	ND
16	1.0	ND
17	1.0	0.6
18	1.0	0.6
19	1.0	ND
20	1.0	ND
21	1.0	ND
22	1.0	ND
23	1.0	ND
24	1.0	ND
25	1.0	ND
26	1.0	ND
27	1.0	ND
28	1.0	ND
29	1.0	ND
30	1.0	ND
31	1.0	ND
32	1.0	ND
33	1.0	ND
34	1.0	ND
35	1.0	ND

TABLE 2
Soil Vapor Analytical Results
Former Building 360 Complex

Vapor Probe Number	Sample Depth (feet below ground surface)	Total Volatile Organics (ug/l in air)
ASG-045	6.0	ND
ASG-046	6.0	ND
ASG-047	6.0	ND
ASG-048	6.0	ND
ASG-049	6.0	ND
ASG-050	6.0	ND
ASG-051	6.0	ND
ASG-052	6.0	ND
ASG-053	6.0	ND
ASG-054	6.0	ND
ASG-055	6.0	2.0
ASG-056	6.0	ND
ASG-057	6.0	ND
ASG-058	6.0	ND
ASG-059	6.0	ND
ASG-060	6.0	ND
ASG-061	6.0	ND
ASG-062	6.0	ND
ASG-063	6.0	ND
ASG-064	6.0	ND
ASG-066	6.0	ND
ASG-067	6.0	ND
ASG-068	6.0	ND
ASG-069	6.0	ND
ASG-070	6.0	ND
ASG-071	6.0	ND
ASG-072	6.0	ND
ASG-073	6.0	ND
ASG-074	6.0	ND
ASG-075	6.0	ND
ASG-076	6.0	ND
ASG-077	6.0	1.1
ASG-078	6.0	2.7
ASG-079	6.0	ND
ASG-080	6.0	ND
ASG-081	6.0	ND
ASG-082	6.0	ND
ASG-083	6.0	ND
ASG-084	6.0	ND
ASG-085	6.0	ND
ASG-086	6.0	1.2

TABLE 2
Soil Vapor Analytical Results
Former Building 360 Complex

Vapor Probe Number	Sample Depth (feet below ground surface)	Total Volatile Organics (ug/l in air)
ASG-087	6.0	ND
ASG-088	6.0	4.4
ASG-089	6.0	2.2
ASG-090	6.0	ND
ASG-091	6.0	ND
ASG-092	6.0	ND
ASG-093	6.0	ND
ASG-094	6.0	ND
ASG-095	6.0	ND
ASG-096	6.0	ND
ASG-097	6.0	1.2
ASG-098	6.0	1.3
ASG-099	6.0	4.5
ASG-100	6.0	2.8
ASG-101	6.0	ND
A2SG-001	6.0	1.6
A2SG-002	6.0	ND
A2SG-003	6.0	ND
A2SG-004	6.0	4.8
A2SG-005	6.0	ND
A2SG-005	18.0	2.3
A2SG-006	6.0	ND
A2SG-006	14.0	3.7
FSV-001	10.0	ND
FSV-001	20.0	ND
FSV-002	10.0	ND
FSV-002	20.0	ND
FSV-003	10.0	ND
FSV-003	20.0	ND
FSV-004	10.0	ND
FSV-004	20.0	ND
FSV-005	10.0	ND
FSV-005	20.0	ND
FSV-006	10.0	ND
FSV-006	20.0	ND
FSV-007	10.0	ND
FSV-007	20.0	ND
FSV-008	10.0	ND
FSV-008	20.0	ND
FSV-009	10.0	ND
FSV-009	20.0	ND

TABLE 2
Soil Vapor Analytical Results
Former Building 360 Complex

Vapor Probe Number	Sample Depth (feet below ground surface)	Total Volatile Organics (ug/l in air)
FSV-010	10.0	ND
FSV-010	20.0	ND
FSV-011	10.0	ND
FSV-011	20.0	ND
FSV-012	10.0	ND
FSV-012	20.0	ND
FSV-013	10.0	ND
FSV-013	20.0	ND
FSV-014	10.0	5.6
FSV-014	20.0	5.9
GSV-001	10.0	ND
GSV-001	20.0	ND
GSV-002	10.0	ND
GSV-002	20.0	ND
GSV-003	10.0	ND
GSV-003	20.0	ND
GSV-004	10.0	ND
GSV-004	20.0	ND
GSV-005	10.0	ND
GSV-005	20.0	ND
GSV-007	10.0	1.1
GSV-007	20.0	2.9
GSV-008	10.0	ND
GSV-008	20.0	ND
GSV-009	10.0	ND
GSV-009	20.0	ND
GSV-010	10.0	ND
GSV-010	20.0	ND
GSV-011	10.0	ND
GSV-011	20.0	ND
GSV-012	10.0	ND
GSV-012	20.0	ND
GSV-013	10.0	ND
GSV-013	20.0	ND
GSV-016	10.0	ND
GSV-016	20.0	ND
GSV-017	10.0	ND
GSV-017	20.0	3.4
GSV-018	10.0	ND
GSV-018	20.0	ND
GSV-019	10.0	ND

TABLE 2
Soil Vapor Analytical Results
Former Building 360 Complex

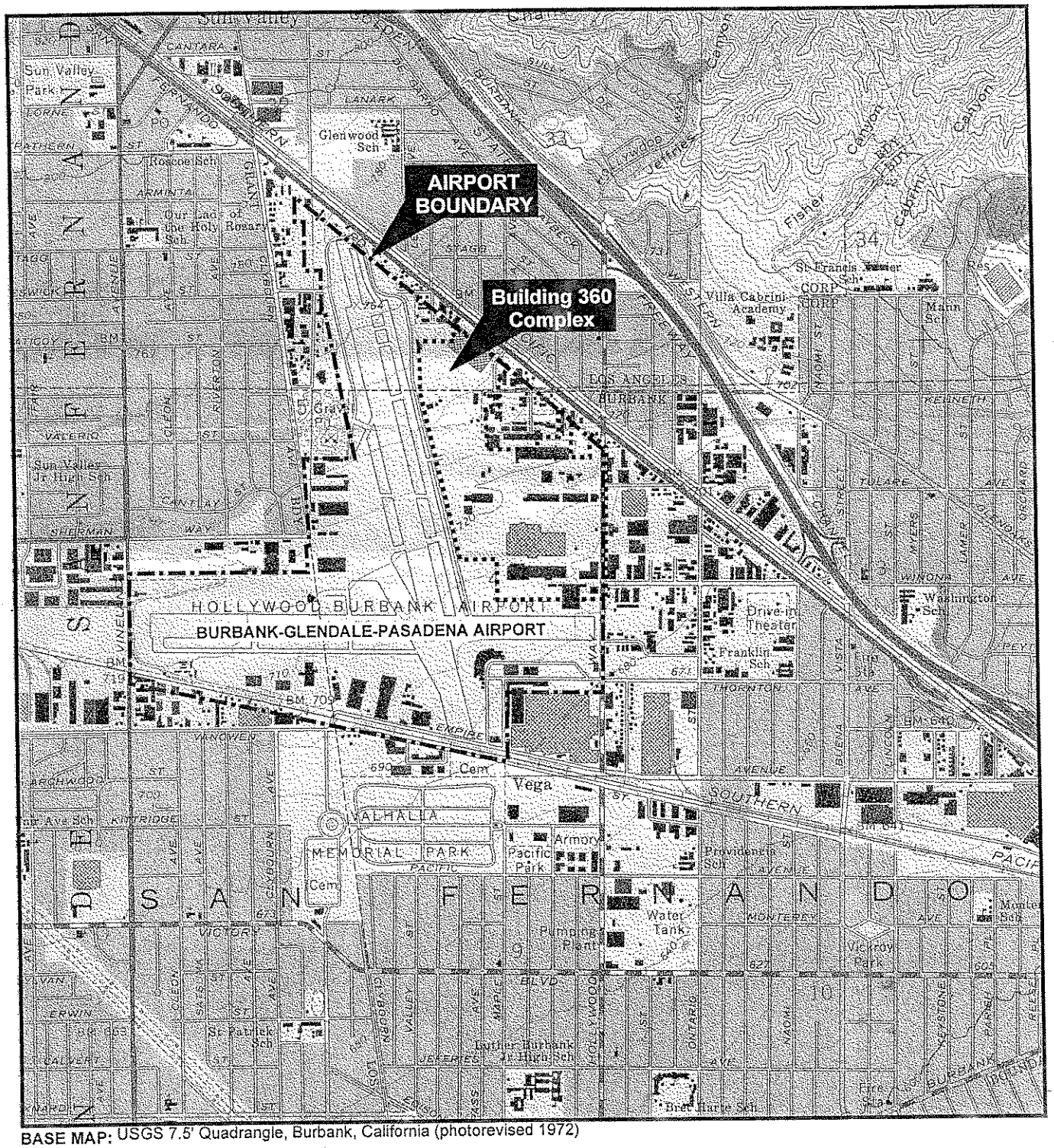
Vapor Probe Number	Sample Depth (feet below ground surface)	Total Volatile Organics (ug/l in air)
GSV-019	20.0	ND
GSV-021	10.0	ND
GSV-021	20.0	ND
GSV-025	10.0	4.7
GSV-025	20.0	8.7
GSV-026	10.0	1.1
GSV-026	20.0	4.4
GSV-027	10.0	ND
GSV-027	20.0	ND
GSV-028	10.0	ND
GSV-028	20.0	ND
GSV-029	10.0	ND
GSV-029	20.0	ND
GSV-030	10.0	ND
GSV-030	20.0	ND
GSV-031	10.0	ND
GSV-032	10.0	ND
GSV-032	20.0	ND
GSV-033	10.0	ND
GSV-033	20.0	ND
GSV-035	10.0	17.3
GSV-035	20.0	17.0
GSV-036	10.0	ND
GSV-036	20.0	ND
GSV-037	10.0	ND
GSV-037	20.0	ND
GSV-038	10.0	ND
GSV-038	20.0	1.3
GSV-039	10.0	ND
GSV-039	20.0	2.0
GSV-040	10.0	ND
GSV-040	20.0	ND
GSV-041	10.0	ND
GSV-041	20.0	ND
GSV-042	10.0	1.4
GSV-042	20.0	ND
GSV-043	10.0	14.0
GSV-043	20.0	3.1
GSV-044	10.0	1.1
GSV-044	20.0	1.8
GSV-045	10.0	ND

TABLE 2
Soil Vapor Analytical Results
Former Building 360 Complex

Vapor Probe Number	Sample Depth (feet below ground surface)	Total Volatile Organics (ug/l in air)
GSV-045	20.0	ND
GSV-046	10.0	ND
GSV-046	20.0	2.4
GSV-047	10.0	3.2
GSV-047	20.0	3.8
GSV-048	10.0	4.6
GSV-048	20.0	6.4
GSV-049	10.0	1.3
GSV-049	20.0	1.6
GSV-050	10.0	ND
GSV-050	20.0	5.8
GSV-051	10.0	4.7
GSV-051	20.0	6.2
GSV-052	10.0	ND
GSV-052	20.0	3.0
GSV-053	10.0	1.4
GSV-053	20.0	4.3
GSV-054	10.0	1.2
GSV-054	20.0	3.3
GSV-055	10.0	2.2
GSV-055	20.0	ND
GSV-056	10.0	1.5
GSV-056	20.0	3.6
GSV-058	10.0	ND
GSV-058	20.0	12.0
GSV-059	10.0	52.3
GSV-059	20.0	22.4
GSV-060	10.0	ND
GSV-060	20.0	1.9
GSV-061	10.0	ND
GSV-061	20.0	ND
GSV-062	10.0	ND
GSV-062	20.0	ND
GSV-063	10.0	ND
GSV-063	20.0	ND
GSV-064	10.0	ND
GSV-064	20.0	2.5
GSV-065	10.0	ND
GSV-065	20.0	7.1
GSV-066	10.0	11.5
GSV-066	20.0	13.0

TABLE 2
Soil Vapor Analytical Results
Former Building 360 Complex

Vapor Probe Number	Sample Depth (feet below ground surface)	Total Volatile Organics (ug/l in air)
GSV-067	10.0	37.4
GSV-067	20.0	30.0
GSV-068	10.0	ND
GSV-068	20.0	ND
GSV-069	10.0	ND
GSV-069	20.0	ND
GSV-070	10.0	ND
GSV-070	20.0	ND
GSV-071	10.0	ND
GSV-071	20.0	ND
GSV-072	10.0	2.9
GSV-072	20.0	ND



BASE MAP: USGS 7.5' Quadrangle, Burbank, California (photorevised 1972)

N

0 1000 2000

FEET

ENSR

FIGURE 1

SITE VICINITY MAP

Burbank-Glendale-Pasadena Airport
Burbank, California

Figure Name: 1123019a.ds4	Date: 9/28/01	Project Number 1123-019	Rev 00
Drawn by: J.Cook	Checked by: LD Parker		

TABLE 2
Soil Vapor Analytical Results
Former Building 360 Complex

Vapor Probe Number	Sample Depth (feet below ground surface)	Total Volatile Organics (ug/l in air)
ASG-001	6.0	ND
ASG-002	6.0	ND
ASG-003	6.0	ND
ASG-004	6.0	ND
ASG-005	6.0	ND
ASG-006	6.0	ND
ASG-007	6.0	ND
ASG-008	6.0	ND
ASG-009	6.0	ND
ASG-010	6.0	ND
ASG-011	6.0	ND
ASG-012	6.0	ND
ASG-013	6.0	ND
ASG-014	6.0	ND
ASG-015	6.0	ND
ASG-016	6.0	ND
ASG-017	6.0	ND
ASG-018	6.0	ND
ASG-019	6.0	ND
ASG-020	6.0	ND
ASG-021	6.0	ND
ASG-022	6.0	ND
ASG-023	6.0	ND
ASG-024	6.0	ND
ASG-025	6.0	ND
ASG-026	6.0	ND
ASG-027	6.0	ND
ASG-028	6.0	ND
ASG-029	6.0	ND
ASG-031	6.0	ND
ASG-032	6.0	1.3
ASG-033	6.0	1.0
ASG-034	6.0	ND
ASG-035	6.0	ND
ASG-036	6.0	ND
ASG-037	6.0	ND
ASG-038	6.0	ND
ASG-039	6.0	ND
ASG-040	6.0	ND
ASG-041	6.0	ND
ASG-044	6.0	ND

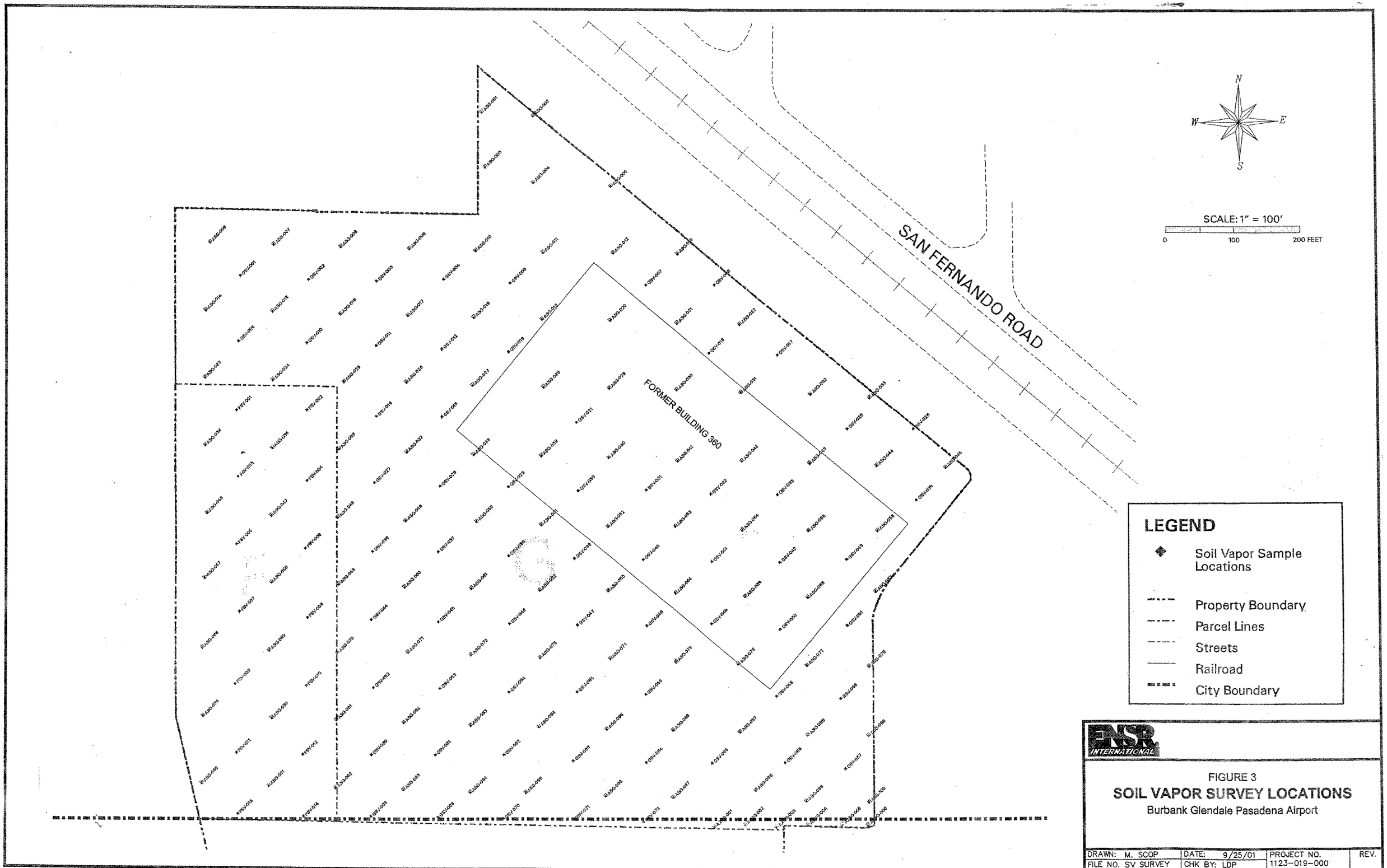
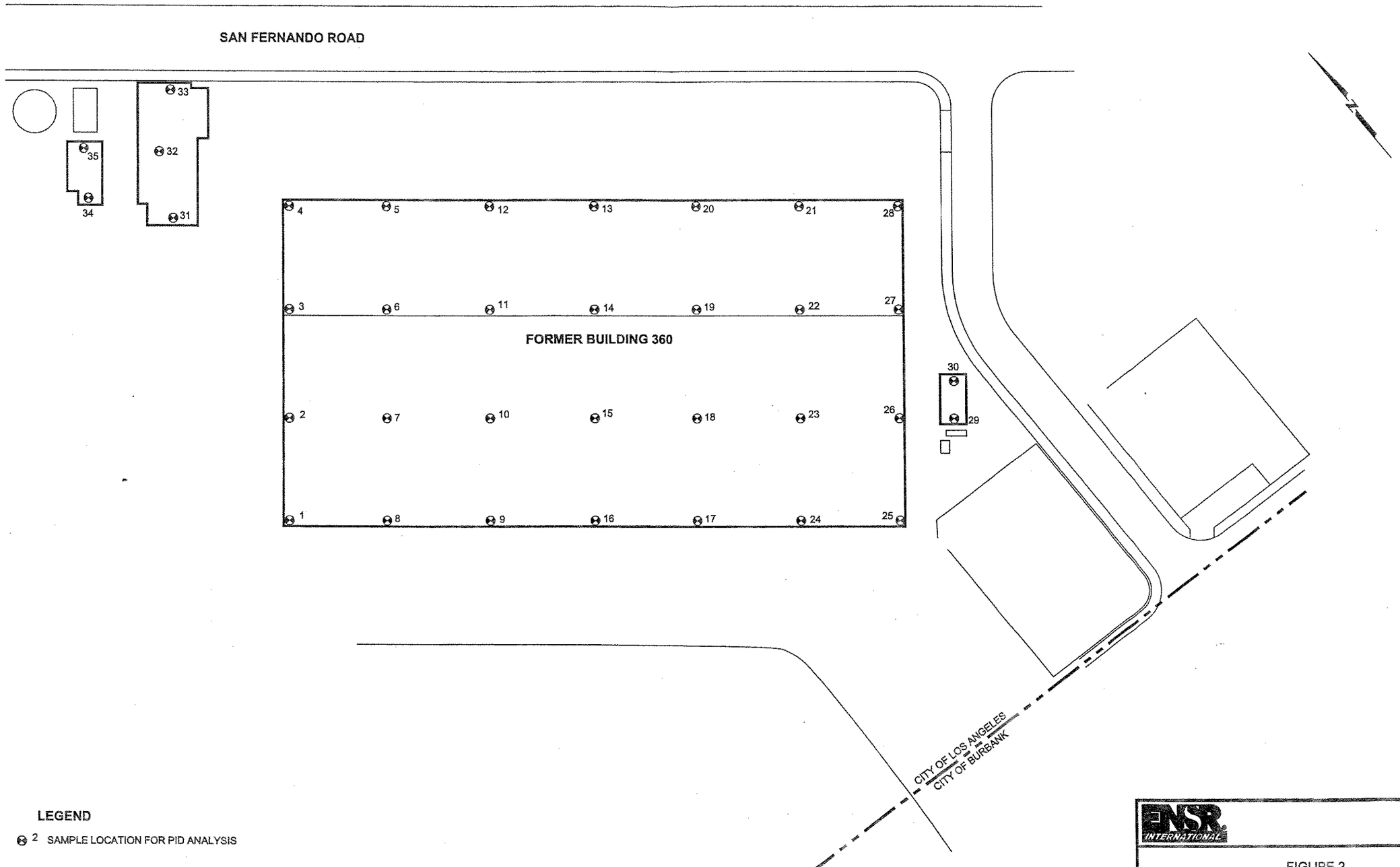


FIGURE 3

SOIL VAPOR SURVEY LOCATIONS

Burbank Glendale Pasadena Airport

DRAWN: M. SCOP	DATE: 9/25/01	PROJECT NO. 1123-019-000	REV.
FILE NO. SV SURVEY	CHK BY: LDP		



LEGEND

⊗ 2 SAMPLE LOCATION FOR PID ANALYSIS

0 50' 100' 200'

SCALE IN FEET

ENSR INTERNATIONAL

FIGURE 2

PID SAMPLE LOCATIONS

Burbank Glendale Pasadena Airport

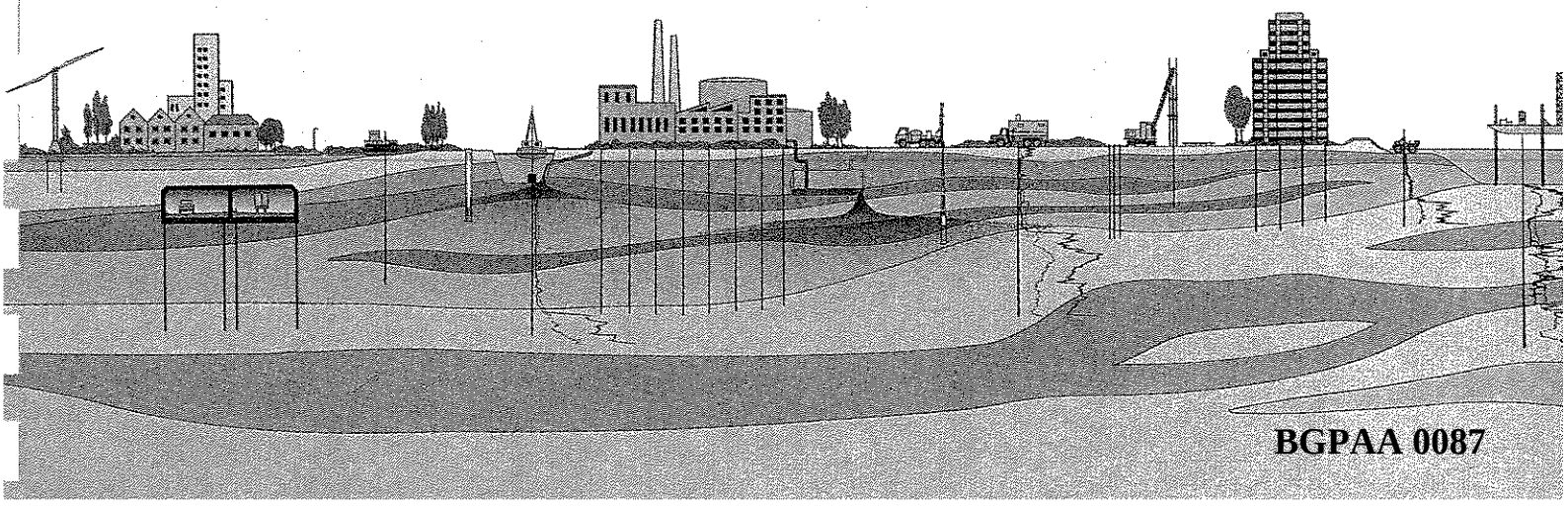
DRAWN: M. SCOP	DATE: 9/17/01	PROJECT NO. 1123-019-000	REV.
FILE NO. samples	CHK BY: LDP		

FUGRO WEST, INC.

LIMITED PHASE II SITE ASSESSMENT
7604 WHEATLAND AVENUE
SUN VALLEY, CALIFORNIA

Prepared for:
BURBANK-GLENDALE-PASADENA AIRPORT AUTHORITY
(Work Order No. 4.1)
(Fugro Job No. 93-41-3270)
(Document No. 4)

May 25, 1994



BGPAA 0087

FUGRO WEST, INC.

315 Arden Avenue, Suite 24
Glendale, CA 91203
Tel: (818) 546-2090
Fax: (818) 546-2091

Work Order No. 4.1, Document No. 4
May 25, 1994
Project No. 93-41-3270

Burbank-Glendale-Pasadena Airport Authority
2627 Hollywood Way
Terminal A, Second Floor
Burbank, California 91505

Attention: Mr. Dan Feger

Limited Phase II Site Assessment
7604 Wheatland Avenue
Sun Valley, California

Dear Mr. Feger:

At the request of the Burbank-Glendale-Pasadena Airport Authority (Airport Authority), Fugro West, Inc. (Fugro) conducted a Limited Phase II Site Assessment at 7604 Wheatland Avenue, Sun Valley, California (subject site), which included soil sampling and additional research regarding the septic tank suspected to be located at the subject site. The purpose of the soil sampling was to determine whether suspect areas observed as part of the *Limited Phase I Environmental Assessment, 7604 Wheatland Avenue, Sun Valley, California,* issued by Fugro and dated May 5, 1994, had impacted the subject site. The location of the subject site is depicted on Plate 1 - Vicinity Map.

Sampling

Three hand-augered soil borings were completed at the subject site. One undisturbed soil sample was collected from each boring with a hand-driven sample liner. Both the hand auger and the sample liners were decontaminated prior to and between each sampling point with a nonphosphate solution and then rinsed with three consecutive rinses of potable and deionized water. Sample SS-1 was taken approximately 4 feet below grade in the area of a suspected septic tank system. Samples ST-1 and ST-2 were taken approximately 1 foot below a concrete slab on which two discolored areas were observed. Approximate sample locations are depicted on Plate 2 - Site Sketch. The three samples were collected in 6-inch stainless-steel sample liners, sealed

with Teflon and plastic end caps, and transported under chain-of-custody protocol to National Environmental Testing, Inc. (NET), a California-certified laboratory located in Burbank, California. The samples were analyzed for volatile organic compounds (VOCs) using EPA Methods 8010 and 8020, total recoverable petroleum hydrocarbons (TRPH) using EPA Method 418.1, and total concentrations of the 17 California Code of Regulations (CCR) metals. Laboratory transcripts are included in Appendix A.

Soil Sample Results

The metals results are summarized in Table 1. All metal concentrations were within 10 times the California Assessment Code Title 26 Soluble Threshold Limit Concentration (STLC) and 20 times the Resource Conservation and Recovery Act (RCRA) Toxicity Characteristic Leaching Procedure (TCLP), which are rules of thumb based on differences in dilution factors between analytical methods. The soluble level of these metals would not be expected to exceed either the STLC or the TCLP if these tests were performed; therefore, these soils are not considered to be significantly impacted.

VOCs were not detected in any of the three samples. TRPH was detected in SS-1 at a concentration of 69 parts per million (ppm). According to the State Water Resources Control Board *Leaking Underground Fuel Tank (LUFT) Field Manual*, dated October, 1989, the current regulatory action level is 100 ppm. TRPH was not detected in ST-1 or ST-2.

Septic Tank Survey

During the limited Phase I environmental assessment, Fugro observed two 12-inch-diameter vertical clay pipes in the ground along the northern boundary of the subject site. These pipes suggest that a septic tank may be present beneath the site. During the limited Phase II site assessment, Fugro assessed the contents of the tank, which appeared to be liquid-like rather than sludge-like, and had septic odor.

Fugro contacted Mr. Kenneth Redway at the City of Los Angeles, Department of Building and Safety, Plumbing Section, in order to determine the proper abandonment procedure of this tank. Mr. Redway stated that the tank must be abandoned by a California-licensed plumbing contractor. After obtaining proper permits at the City of Los Angeles, the contractor should pump out the contents of the tank, fill the tank with a concrete slurry, and cap the inlets. If construction is planned for the area above the septic tank, the septic tank may have to be removed.

Conclusions

Based on the soil sample results, suspect areas observed as part of the limited Phase I environmental assessment do not appear to have significantly impacted the subject site.

Fugro recommends that the suspected septic tank located at the subject site be properly abandoned by a California-licensed plumbing contractor. If construction is planned in the vicinity of the existing septic tank, the tank may have to be removed.

We appreciate the opportunity to provide our services to you. Should you have any questions or comments, please call the undersigned at (818) 546-2090.

Sincerely,

FUGRO WEST, INC.

Alison L. Canning
Senior Environmental Geologist

L. David Parker
Senior Environmental Engineer
Los Angeles Regional Management

LCW:sdf

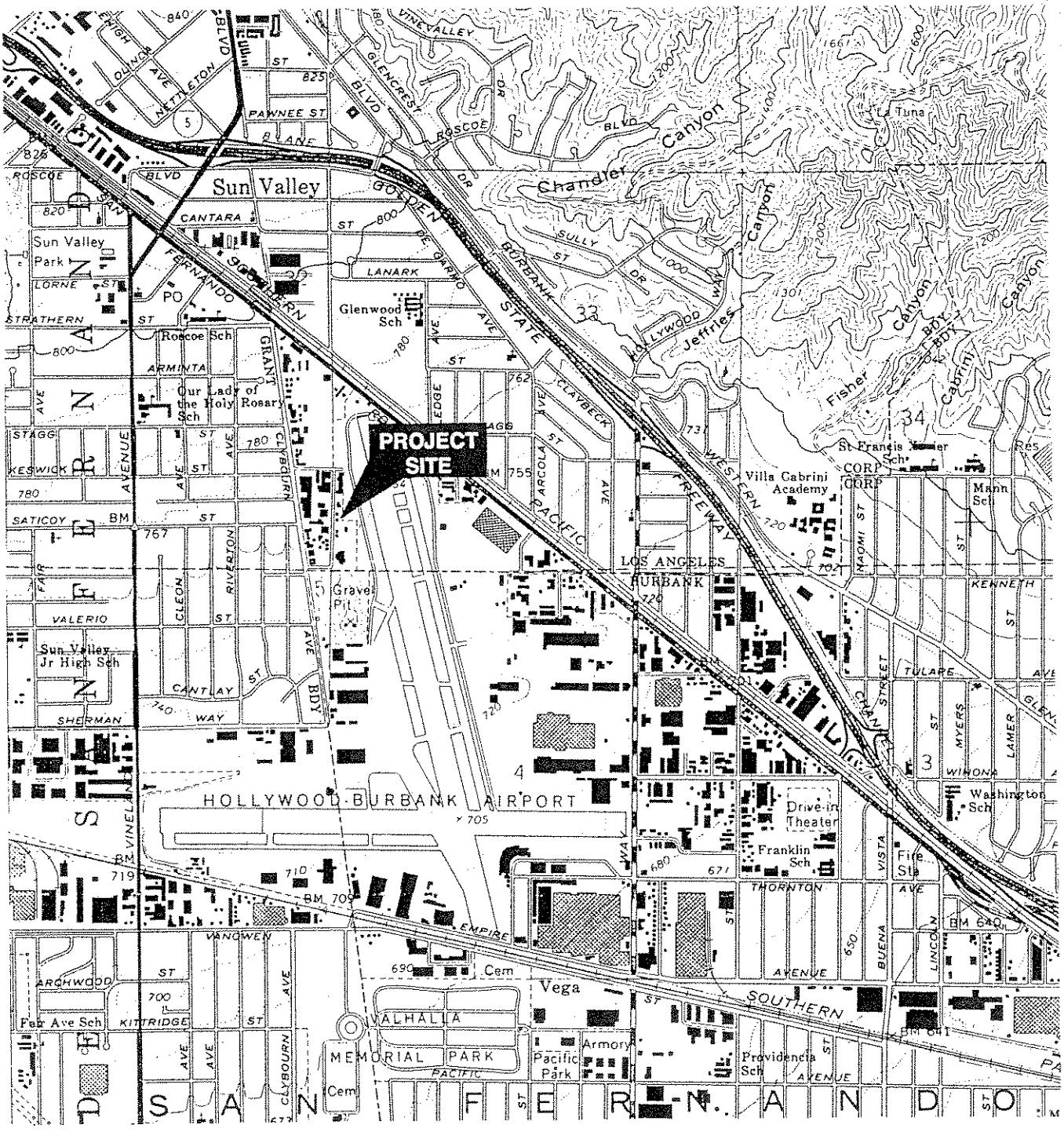
Attachments: Table 1
Plates 1 and 2
Appendix A

Copies submitted: (2)

Table 1. Soil Sample Results
(Results in parts per million [ppm])
Burbank-Glendale-Pasadena Airport Authority
7604 Wheatland Avenue
Sun Valley, California
May 13 and 18, 1994

	SS-1	ST-1	ST-2	STLC	TCLP
Antimony	ND	ND	ND	15	NA
Arsenic	8.10	11.1	9.70	5.0	5
Barium	68.3	102	198	100	100
Beryllium	ND	ND	ND	0.75	NA
Cadmium	ND	ND	ND	1.0	1
Chromium	7.88	11.5	10.2	560	5
Cobalt	5.05	8.04	6.55	80	NA
Copper	14.4	16.2	13.0	25	NA
Lead	11.5	ND	37.3	5.0	5
Mercury	ND	ND	ND	0.2	0.2
Molybdenum	ND	ND	ND	350	NA
Nickel	6.18	8.81	6.30	20	NA
Selenium	ND	ND	ND	1.0	1
Silver	ND	ND	ND	5	5
Thallium	ND	ND	ND	7.0	NA
Vanadium	18.4	28.2	21.9	24	NA
Zinc	62.8	69.5	67.2	250	NA

NA Not Available
ND Not Detected
STLC Soluble Threshold Limit Concentration
TCLP Toxicity Characteristic Leaching Procedure



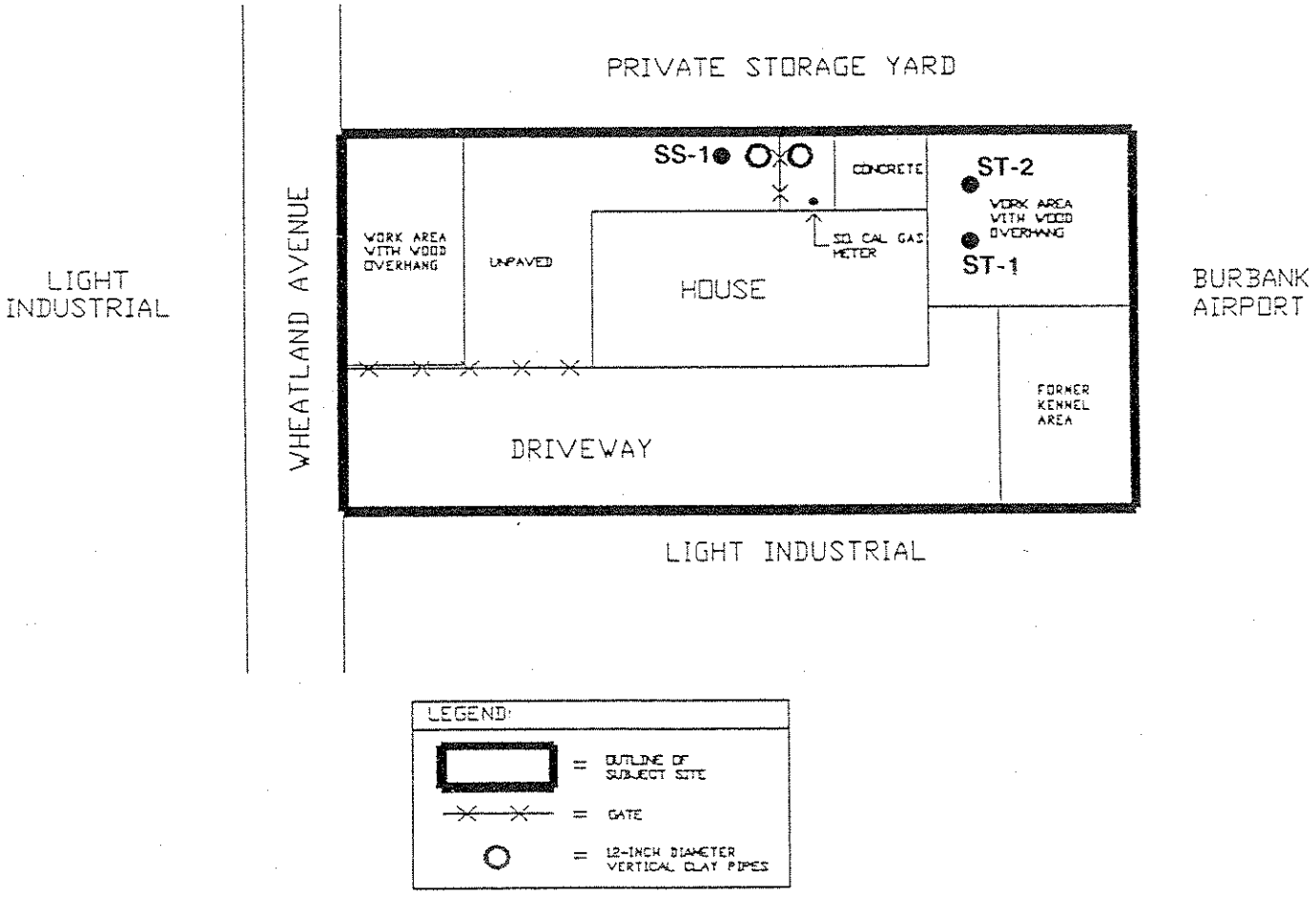
From: USGS Topo, Burbank Quadrangle

NORTH

0 1000 2000
FEET

VICINITY MAP
7604 Wheatland Avenue
Sun Valley, California

PLATE 1



NORTH
NOT TO SCALE

SITE SKETCH
7604 Wheatland Avenue
Sun Valley, California

PLATE 2

APPENDIX A

LABORATORY TRANSCRIPTS

NATIONAL ENVIRONMENTAL TESTING, INC.

Burbank Division
700 South Flower Street
Burbank, CA 91502
Tel: (213) 849-6591
Fax: (818) 567-6477

DOHS Certificate Number: 1192
LACSD Lab I.D. Number: 10158

05/24/1994

Alison Canning
Fugro-McClelland
5855 Olivas Park Dr.
Ventura, CA 93003

Client Ref: Wheatland St
Date Received: 05/19/1994

Sample analysis for the project referred to above has been completed and results are located on attached pages.

Should you have questions regarding procedures or results, please feel welcome to contact our Client Services Representatives or the Laboratory Director.

for Rick Schroeder
Kimberly S. Banks
Project Manager

Post-It™ brand fax transmittal memo 7671	# of pages ▸
To Alison C.	From Rick S.
Co.	Co.
Dept.	Phone #
Fax #	Fax # 5/24/94

KB:rm
Attachments:
Analytical Reports
Chain of Custody Document

Client Net Acct No: 13200
NET Job No: 94.00827

NET®

Client Name: Fugro-McClelland
Client Ref.: Wheatland St

NET Job No.: 94.00827

Date Taken: 05/13/1994
Date Reported: 05/24/1994

Sample ID : SS-1

Lab No. : 64362

Sample Matrix: SOIL

ANALYTES/METHOD	METHOD	RESULTS/FLAGS		UNITS	REPORTING LIMIT
Method 418.1 (IR,TRPH)	418.1	69		mg/Kg	10
17 CAM Metals, Total					
Antimony (ICP)	6010	ND		mg/Kg	10.0
Arsenic (Hydride)	7061	8.10		mg/Kg	0.15
Barium (ICP)	6010	68.3		mg/Kg	1.0
Beryllium (ICP)	6010	ND		mg/Kg	1.0
Cadmium (ICP)	6010	ND		mg/Kg	0.5
Chromium (ICP)	6010	7.88		mg/Kg	1.0
Cobalt (ICP)	6010	5.05		mg/Kg	2.5
Copper (ICP)	6010	14.4		mg/Kg	1.0
Lead (ICP)	6010	11.5		mg/Kg	5.0
Mercury (CVAA)	7471	ND		mg/Kg	0.05
Molybdenum (ICP)	6010	ND		mg/Kg	10.0
Nickel (ICP)	6010	6.16		mg/Kg	2.5
Selenium (Hydride)	7741	ND		mg/Kg	0.5
Silver (ICP)	6010	ND		mg/Kg	1.0
Thallium (ICP)	6010	ND		mg/Kg	12.5
Vanadium (ICP)	6010	18.4		mg/Kg	2.5
Zinc (ICP)	6010	62.8	B	mg/Kg	1.0

ND: Not Detected at the Reporting Limit, if a dilution factor is reported the R.L. must be multiplied by the dilution factor to obtain actual R.L.
B: Analyte detected in method blank associated with this sample

NET®

Client Name: Fugro-McClelland
Client Ref.: Wheatland St

NET Job No.: 94.00827
Date Taken: 05/13/1994
Date Reported: 05/24/1994

Sample ID : SS-1

Lab No. : 64362
Sample Matrix: SOIL

ANALYTES/METHOD	METHOD	RESULTS/FLAGS		UNITS	REPORTING LIMIT
METHOD 8010 & 8020 (GC,Solid)					
Extraction Method		5030			
Date Extracted		05-20-94			
Date Analyzed		05-20-94			
Dilution Factor	8010	1			
Bromodichloromethane	8010	ND		ug/Kg	5
Bromoform	8010	ND		ug/Kg	10
Bromomethane	8010	ND		ug/Kg	10
Carbon tetrachloride	8010	ND		ug/Kg	5
Chlorobenzene	8020	ND		ug/Kg	5
Chloroethane	8010	ND		ug/Kg	10
2-Chloroethylvinyl ether	8010	ND		ug/Kg	10
Chloroform	8010	ND		ug/Kg	5
Chloromethane	8010	ND		ug/Kg	10
Dibromochloromethane	8010	ND		ug/Kg	5
1,2-Dichlorobenzene	8020	ND		ug/Kg	5
1,3-Dichlorobenzene	8020	ND		ug/Kg	5
1,4-Dichlorobenzene	8020	ND		ug/Kg	5
Dichlorodifluoromethane	8010	ND		ug/Kg	10
1,1-Dichloroethane	8010	ND		ug/Kg	5
1,2-Dichloroethane	8010	ND		ug/Kg	5
1,1-Dichloroethene	8010	ND		ug/Kg	5
trans-1,2-Dichloroethene	8010	ND		ug/Kg	5
1,2-Dichloropropane	8010	ND		ug/Kg	5
cis-1,3-Dichloropropene	8010	ND		ug/Kg	5
trans-1,3-Dichloropropene	8010	ND		ug/Kg	5
Methylene chloride	8010	ND		ug/Kg	10
1,1,2,2-Tetrachloroethane	8010	ND		ug/Kg	5
Tetrachloroethene	8010	ND		ug/Kg	5
1,1,1-Trichloroethane	8010	ND		ug/Kg	5
1,1,2-Trichloroethane	8010	ND		ug/Kg	5
Trichloroethene	8010	ND		ug/Kg	5
Trichlorofluoromethane	8010	ND		ug/Kg	10
Vinyl chloride	8010	ND		ug/Kg	10
Benzene	8020	ND		ug/Kg	5
Ethylbenzene	8020	ND		ug/Kg	5
Toluene	8020	ND		ug/Kg	5
Xylenes (total)	8020	ND		ug/Kg	10
Surrogate Spike		--			
2-Chlorotoluene	8010/8020	59	a	% Rec.	

ND: Not Detected at the Reporting Limit, if a dilution factor is reported the R.L. must be multiplied by the dilution factor to obtain actual R.L.
a: Low surrogate recovery due to sample matrix interference

NET®

Client Name: Fugro-McClelland
Client Ref.: Wheatland St

NET Job No.: 94.00827

Date Taken: 05/18/1994
Date Reported: 05/24/1994

Sample ID : ST-1

Lab No. : 64363

Sample Matrix: SOIL

ANALYTES/METHOD	METHOD	RESULTS/FLAGS		UNITS	REPORTING LIMIT
Method 418.1 (IR,TRPH)	418.1	ND		mg/Kg	10
17 CAM Metals, Total					
Antimony (ICP)	6010	ND		mg/Kg	10.0
Arsenic (Hydride)	7061	11.1		Kg	0.15
Barium (ICP)	6010	102		mg/Kg	1.0
Beryllium (ICP)	6010	ND		mg/Kg	1.0
Cadmium (ICP)	6010	ND		mg/Kg	0.5
Chromium (ICP)	6010	11.5		mg/Kg	1.0
Cobalt (ICP)	6010	8.04		mg/Kg	2.5
Copper (ICP)	6010	16.2		mg/Kg	1.0
Lead (ICP)	6010	ND		mg/Kg	5.0
Mercury (CVAA)	7471	ND		mg/Kg	0.05
Molybdenum (ICP)	6010	ND		mg/Kg	10.0
Nickel (ICP)	6010	8.81		mg/Kg	2.5
Selenium (Hydride)	7741	ND		mg/Kg	0.5
Silver (ICP)	6010	ND		mg/Kg	1.0
Thallium (ICP)	6010	ND		mg/Kg	12.5
Vanadium (ICP)	6010	28.2		mg/Kg	2.5
Zinc (ICP)	6010	69.5	B	mg/Kg	1.0

ND: Not Detected at the Reporting Limit, if a dilution factor is reported the R.L. must be multiplied by the dilution factor to obtain actual R.L.
B: Analyte detected in method blank associated with this sample

NET®

Client Name: Fugro-McClelland
Client Ref.: Wheatland St

NET Job No.: 94.00827

Date Taken: 05/18/1994
Date Reported: 05/24/1994

Sample ID : ST-1

Lab No. : 64363

Sample Matrix: SOIL

ANALYTES/METHOD	METHOD	RESULTS/FLAGS	UNITS	REPORTING LIMIT
METHOD 8010 & 8020 (GC,Solid)				
Extraction Method		5030		
Date Extracted		05-20-94		
Date Analyzed		05-20-94		
Dilution Factor	8010	1		
Bromodichloromethane	8010	ND	ug/Kg	5
Bromoform	8010	ND	ug/Kg	10
Bromomethane	8010	ND	ug/Kg	10
Carbon tetrachloride	8010	ND	ug/Kg	5
Chlorobenzene	8020	ND	ug/Kg	5
Chloroethane	8010	ND	ug/Kg	10
2-Chloroethylvinyl ether	8010	ND	ug/Kg	10
Chloroform	8010	ND	ug/Kg	5
Chloromethane	8010	ND	ug/Kg	10
Dibromochloromethane	8010	ND	ug/Kg	5
1,2-Dichlorobenzene	8020	ND	ug/Kg	5
1,3-Dichlorobenzene	8020	ND	ug/Kg	5
1,4-Dichlorobenzene	8020	ND	ug/Kg	5
Dichlorodifluoromethane	8010	ND	ug/Kg	10
1,1-Dichloroethane	8010	ND	ug/Kg	5
1,2-Dichloroethane	8010	ND	ug/Kg	5
1,1-Dichloroethene	8010	ND	ug/Kg	5
trans-1,2-Dichloroethene	8010	ND	ug/Kg	5
1,2-Dichloropropane	8010	ND	ug/Kg	5
cis-1,3-Dichloropropene	8010	ND	ug/Kg	5
trans-1,3-Dichloropropene	8010	ND	ug/Kg	5
Methylene chloride	8010	ND	ug/Kg	10
1,1,2,2-Tetrachloroethane	8010	ND	ug/Kg	5
Tetrachloroethene	8010	ND	ug/Kg	5
1,1,1-Trichloroethane	8010	ND	ug/Kg	5
1,1,2-Trichloroethane	8010	ND	ug/Kg	5
Trichloroethene	8010	ND	ug/Kg	5
Trichlorofluoromethane	8010	ND	ug/Kg	10
Vinyl chloride	8010	ND	ug/Kg	10
Benzene	8020	ND	ug/Kg	5
Ethylbenzene	8020	ND	ug/Kg	5
Toluene	8020	ND	ug/Kg	5
Xylenes (total)	8020	ND	ug/Kg	10
Surrogate Spike		--		
2-Chlorotoluene	8010/8020	61	% Rec.	

ND: Not Detected at the Reporting Limit, if a dilution factor is reported the R.L. must be multiplied by the dilution factor to obtain actual R.L.

NET®

Client Name: Fugro-McClelland
Client Ref.: Wheatland St

Date Taken: 05/18/1994
NET Job No.: 94.00827
Date Reported: 05/24/1994

Sample ID : ST-2

Lab No. : 64364
Sample Matrix: SOIL

ANALYTES/METHOD	METHOD	RESULTS/FLAGS		UNITS	REPORTING LIMIT
Method 418.1 (IR,TRPH)	418.1	ND		mg/Kg	10
17 CAM Metals, Total					
Antimony (ICP)	6010	ND		mg/Kg	10.0
Arsenic (Hydride)	7061	9.70		mg/Kg	0.15
Barium (ICP)	6010	198		mg/Kg	1.0
Beryllium (ICP)	6010	ND		mg/Kg	1.0
Cadmium (ICP)	6010	ND		mg/Kg	0.5
Chromium (ICP)	6010	10.2		mg/Kg	1.0
Cobalt (ICP)	6010	6.55		mg/Kg	2.5
Copper (ICP)	6010	13.0		mg/Kg	1.0
Lead (ICP)	6010	37.3		mg/Kg	5.0
Mercury (CVAA)	7471	ND		mg/Kg	0.05
Molybdenum (ICP)	6010	ND		mg/Kg	10.0
Nickel (ICP)	6010	6.30		mg/Kg	2.5
Selenium (Hydride)	7741	ND		mg/Kg	0.5
Silver (ICP)	6010	ND		mg/Kg	1.0
Thallium (ICP)	6010	ND		mg/Kg	12.5
Vanadium (ICP)	6010	21.9		mg/Kg	2.5
Zinc (ICP)	6010	67.2	B	mg/Kg	1.0

ND: Not Detected at the Reporting Limit, if a dilution factor is reported the R.L. must be multiplied by the dilution factor to obtain actual R.L.
B: Analyte detected in method blank associated with this sample

NET®

Client Name: Fugro-McClelland
Client Ref.: Wheatland St

NET Job No.: 94.00827

Date Taken: 05/18/1994
Date Reported: 05/24/1994

Sample ID : ST-2

Lab No. : 64364

Sample Matrix: SOIL

ANALYTES/METHOD	METHOD	RESULTS/FLAGS		UNITS	REPORTING LIMIT
METHOD 8010 & 8020 (GC,Solid)					
Extraction Method		5030			
Date Extracted		05-20-94			
Date Analyzed		05-20-94			
Dilution Factor	8010	1			
Bromodichloromethane	8010	ND		ug/Kg	5
Bromoform	8010	ND		ug/Kg	10
Bromomethane	8010	ND		ug/Kg	10
Carbon tetrachloride	8010	ND		ug/Kg	5
Chlorobenzene	8020	ND		ug/Kg	5
Chloroethane	8010	ND		ug/Kg	10
2-Chloroethylvinyl ether	8010	ND		ug/Kg	10
Chloroform	8010	ND		ug/Kg	5
Chloromethane	8010	ND		ug/Kg	10
Dibromochloromethane	8010	ND		ug/Kg	5
1,2-Dichlorobenzene	8020	ND		ug/Kg	5
1,3-Dichlorobenzene	8020	ND		ug/Kg	5
1,4-Dichlorobenzene	8020	ND		ug/Kg	5
Dichlorodifluoromethane	8010	ND		ug/Kg	10
1,1-Dichloroethane	8010	ND		ug/Kg	5
1,2-Dichloroethane	8010	ND		ug/Kg	5
1,1-Dichloroethene	8010	ND		ug/Kg	5
trans-1,2-Dichloroethene	8010	ND		ug/Kg	5
1,2-Dichloropropane	8010	ND		ug/Kg	5
cis-1,3-Dichloropropene	8010	ND		ug/Kg	5
trans-1,3-Dichloropropene	8010	ND		ug/Kg	5
Methylene chloride	8010	ND		ug/Kg	10
1,1,2,2-Tetrachloroethane	8010	ND		ug/Kg	5
Tetrachloroethene	8010	ND		ug/Kg	5
1,1,1-Trichloroethane	8010	ND		ug/Kg	5
1,1,2-Trichloroethane	8010	ND		ug/Kg	5
Trichloroethene	8010	ND		ug/Kg	5
Trichlorofluoromethane	8010	ND		ug/Kg	10
Vinyl chloride	8010	ND		ug/Kg	10
Benzene	8020	ND		ug/Kg	5
Ethylbenzene	8020	ND		ug/Kg	5
Toluene	8020	ND		ug/Kg	5
Xylenes (total)	8020	ND		ug/Kg	10
Surrogate Spike		--			
2-Chlorotoluene	8010/8020	57	a	% Rec.	

ND: Not Detected at the Reporting Limit, if a dilution factor is reported the R.L. must be multiplied by the dilution factor to obtain actual R.L.
a: Low surrogate recovery due to sample matrix interference

NET®
NATIONAL ENVIRONMENTAL TESTING, INC.
700 S. Flower St.
Burbank, CA 91502
213-849-6595 • Fax 818-567-6477

Chain of Custody / Request for Analysis

Client: Fugro
Address (line 1):
Address (line 2):
Contact: Alison Canning

Project: Wheatland St
P.O. #: 9341-3270
Phone #:
Fax #:

Additional Reports to:
Attn:
Fax #:

Send Invoice to:
Attn:
Phone #:

LAB USE ONLY
Job #:
Report Format:
Storage Location:

Sample Identification	Matrix: Soil	Matrix: Water	Matrix: Other	Container #/Type	1) HNO_3 2) H_2SO_4 3) Na OH 4) Other (Specify)	Grab	Composite	Sampling Information: Date	Sampling Information: Time	Analyses Requested: 8010 8020	17 Metals	TRPH									
SS-1	X			1/SS	ICE	X		5/13		X	X	X									
ST-1	X				ICE	X		5/18	345	X	X	X									
ST-2	X				ICE	X		5/18	415	X	X	X									

Method of shipment:
- NET Courier ☐
- Fed. Ex. ☐
- UPS ☐
- Other ☐
- Hand Deliver ☐

Airbill #:

Remarks:

Comments: Normal TAT

Special QA/QC:

Special Detection Limits:

Subcontracting allowed: Yes☐ no☐ with approval☐

Turnaround time: Fax☐ Verbal☐ Final☐

Priority Rush
- 1 Business Day ☐ Date/Time
- Rush 2 Business Days ☐ Date/Time
- 5 Business Days ☐ Date/Time
- 10 Business Days ☐ Date/Time

Condition of sample: Bottles Intact? yes / no COC seals present and intact? yes / no Temperatures upon receipt: Volatiles free of headspace? yes / no

Sampled by: (print name)	Date:	Time:	Received by:	Date:	Time:
Jeff Maaksamen	5/18/94			5/18/94	6PM.
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**
	5/18/94	6PM			
Relinquished by:	**Date:**	**Time:**	**Received by laboratory:**	**Date:**	**Time:**
	/ /			5/19/94	8:55AM

Distribution: White-Laboratory; Canary-Invoicing; Pink-Client

Page 1 of 1 COC #: 3482

LGPA 102

California Regional Water Quality Control Board

Los Angeles Region

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Secretary for Environmental Protection

Gray Davis
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Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.swrcb.ca.gov/rwqcb4

• D. Parker
K SNYDER @ Paragon
• M Hargrove @ Cushman
• J Gregory
Copy - BG SACC
Fargo Wtl Q.

February 8, 2002

Mr. Dan Feger
Burbank-Glendale-Pasadena Airport Authority
2627 Hollywood Way
Burbank, CA 91505-1055

BUILDING 360 COMPLEX, FORMER LOCKHEED MARTIN PLANT B-6
2801 N. HOLLYWOOD WAY, BURBANK, CALIFORNIA (FILE NO. 104.0674)

Dear Mr. Feger:

On December 19, 2001, the Regional Board issued a *No Further Requirements* letter for the Building 360 Complex located within the former Lockheed Martin Plant B-6 site. You requested clarification on whether the Burbank-Glendale-Pasadena Airport Authority (BGPAA), or any future owner and/or developer, are obligated to continue monitoring the soil conditions beneath excavated paving, roadways, site features and building foundations for signs of contamination during future redevelopment activities.

The *No Further Requirements* determination for the Building 360 area was issued based on the results of multiple site assessments and environmental monitoring performed during the demolition of concrete slabs and foundations. The *Environmental Monitoring Report, Former Plant B-6 – Building 360 Complex, Burbank, California* dated October 3, 2001 indicated that the asphalt paving throughout the Building 360 area remains intact. As part of the above monitoring effort, the soil conditions directly beneath the asphalt paving must be monitored when this feature is removed. The purpose of the monitoring is to ensure that contaminated soil that could potentially impact groundwater quality is identified and addressed. The monitoring must be conducted based on the *Foundation and Infrastructure Demolition Monitoring Plan, Plant B-6: Burbank, California* dated January 23, 1997, which was previously approved by Regional Board staff in a letter to Lockheed Martin dated March 13, 1997.

In addition, Regional Board staff must be notified in the event that subsurface feature(s) or signs of soil contamination are encountered during future site redevelopment activities. Additional soil assessment and/or cleanup may be needed in the event that such conditions are discovered.

If you have any questions, please call Alex Carlos at (213) 576- 6726.

Sincerely,

DIXON ORIOLA, Unit Chief
San Gabriel and San Fernando Valley Cleanup Programs

cc: See next page

cc: Michael Lauffer, Office of the Chief Counsel, State Water Resources Control Board
Robert Sams, Office of the Chief Counsel, State Water Resources Control Board
Diane Strassmaier, U.S. EPA, Region IX
Sayareh Amirebrahimi, Department of Toxic Substances Control, Glendale Regional Office
Vera Melnyk-Vecchio, California DHS, Drinking Water Field Operations Branch
Paul Lisak, L. A. County Fire Dept., Health Hazmat
Mel Blevins, ULARA Watermaster
Robert Ovrom, City of Burbank
Bruce Feng, City of Burbank
Roger Baker, City of Burbank
Dennis Barlow, City of Burbank
Devin Burns, City of Burbank
David Parker, ENSR International
Gene Matsushita, Lockheed Martin Corporation

California Regional Water Quality Control Board

Los Angeles Region

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Terry Tamminen
Secretary for Environmental Protection

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File - LWQCB

Copy - Dave Park
Copy Jesse Romo

RECEIVED
JUL 7 2004
BURBANK-GLENDALE-PASADENA AIRPORT AUTHORITY

June 29, 2004

Mr. Gene Matsushita
Lockheed Martin Corporation
Burbank Program Office
2550 North Hollywood Way, 3rd Floor
Burbank, CA 91505-1055

NO FURTHER REQUIREMENTS (SOIL ONLY), FORMER LOCKHEED MARTIN PLANT B-5, BURBANK, CALIFORNIA (FILE NO. 104.5167) (CLEANUP & ABATEMENT ORDER NO. 87-161)

Dear Mr. Matsushita:

We have reviewed the *Supplemental Soil Vapor, Soil Matrix, and Groundwater Investigation Report, Lockheed Former Plant B-5 Facility,* dated February 6, 2003. This report documents the results of a supplementary investigation to further evaluate the soil vapor and soil matrix conditions and to assess potential impacts of historical site operations on groundwater quality beneath the subject facility. Lockheed Martin performed this site assessment in response to the Regional Board staff's: 1) letter dated October 9, 2001; and 2) site inspections conducted on October 29 and November 5, 2001. This site assessment was conducted in compliance with Cleanup and Abatement Order No. 87-161, issued by the Regional Board on December 17, 1987.

Based on Regional Board staff's review of the subject report and other information in our file, we have the following comments:

FINDINGS:

1. The 60-acre former Plant B-5 facility is located on the southwest area of the Burbank-Glendale-Pasadena Airport in the City of Burbank. Lockheed Martin owned Plant B-5 from 1936 until it was sold in 1978 to its current owner, the Burbank-Glendale-Pasadena Airport Authority. Operations at Plant B-5 consisted of the assembly and fabrication of aircraft components and flight training school from 1936 to early 1975. Since 1975, the Plant B-5 buildings have been leased to various tenants for aircraft storage/maintenance, office space and car rental operations.

2. Based on the *Final Phase 1 Environmental Assessment Former Plant B-5, Burbank, California* (Tetra Tech, April 18, 1996), 35 potential source areas of liquid wastes were identified, including former/existing clarifiers, underground storage tanks, aboveground chemical storage tanks, paint booths and chemical storage and use areas. Between 1998 and 2002, Lockheed Martin conducted multi-phase site assessments to evaluate whether these potential sources have impacted the soil and pose a threat to groundwater quality. The assessment results are summarized below.

In 1998, a total of 91 soil gas samples were collected at approximately 10 feet below ground surface (bgs). 1,1,2-trichlorotrifluoroethane (Freon 113) was the most frequently detected volatile organic compound (VOC) and had the highest concentration (31 micrograms per liter [µg/L] at soil gas probe SG-90) of any VOCs found at the subject site. Reportedly, Freon 113 was a laboratory contaminant. Other major constituents detected in soil gas included 1,1,1-trichloroethane (1,1,1-TCA) and 1,1-dichloroethane (1,1-DCA) with maximum concentrations of 29.1 µg/L and 20.3 µg/L, respectively. 1,1,1-TCA and 1,1-DCA were mainly detected at sample probe SG-41, located between Hangar 5, 7A, and 7B. This area was identified as the location of former Building P414, which previously contained aboveground tanks and one 1,1,1-TCA degreaser. Further assessment in the vicinity of soil gas probe SG-41 was conducted to assess the extent of VOC contamination (see Item 5). Other VOC concentrations detected in the soil gas samples were less than 5 µg/L.

Eleven soil borings were drilled to a depth of 40 feet bgs and sampled at 5-foot intervals. Analytical results of 87 soil matrix samples collected from these borings indicated that Total Recoverable Petroleum Hydrocarbons (TRPH) and Total Petroleum Hydrocarbons (TPH) were not detected above laboratory detection limits, except two samples from boring SB1. Boring SB1 was located adjacent to an abandoned underground storage tank northwest of Hangar 3 that reportedly contained fuel oil. TRPH was detected at 2,525 milligrams per kilogram (mg/kg) and 450 mg/kg at 7 and 30 feet bgs, respectively. TPH (quantified for diesel) was also detected in boring SB1 at a concentration of 50 mg/kg at 7 feet bgs. The data indicates that only the near-surface soil has been impacted and that there is no threat to groundwater quality. VOCs were not detected in any soil matrix samples.

Metal concentrations in soil matrix samples were either non-detect or below ten times the Soluble Threshold Limit Concentration (STLC) based on the California Code of Regulations, Title 22 (CCR, Title 22), except for four samples. Thallium was detected at concentrations of 79 mg/kg and 81 mg/kg at depths of 35 and 40 feet bgs, respectively in boring SB6 located near a clarifier in Hangar 6. These concentrations are slightly above ten times the STLC for thallium of 70 mg/kg and U. S. Environmental Protection Agency (USEPA) Region 9 Preliminary Remediation Goal (PRG)(2002) of 67 mg/kg for industrial sites. This area was further assessed in 2000 (see Item 4).

East of the FAA Building, soil samples analyzed for metals contained 63 mg/kg of lead (at 30 feet bgs) and 34 mg/kg of selenium (at 40 feet bgs) in two soil samples from boring SB11, located in the former aboveground tank area. These concentrations exceed ten times the STLC value of 50 mg/kg for lead and 10 mg/kg for selenium. This area was further assessed in 2000 (see Item 4).

4. In May and June 2000, Lockheed Martin performed a supplemental site investigation in response to the Regional Board staff's review of the *Site Investigation Report Former Plant B-5* dated May 1998. The purpose of the supplementary investigation was to: 1) delineate the extent of VOC contamination in former Building P414; 2) delineate metals contamination near the Hangar 6 clarifier and former aboveground tank area near the FAA Building; and 3) to verify some data obtained during the April 1998 soil gas survey. The investigation was performed based on the *Workplan for the Investigation of VOC and Metals Impacted Soil* dated February 10, 2000 and approved by Regional Board staff in a letter to Lockheed Martin dated May 16, 2000.

Thirty (30) soil gas probes were collected 10 feet bgs to verify the VOC results obtained during the April 1998 soil gas investigation. Tetrachloroethene (PCE) was the primary VOC detected at a maximum concentration of 8 µg/L at soil gas probe CSG71. The highest VOC concentration detected was 21 µg/L of Freon-113 at soil gas probe CSG90. Other VOCs detected were below 10 µg/L. VOC concentrations detected in 30 areas during this investigation were comparable to those detected in the April 1998 soil gas investigation.

Five sets of multi-depth soil gas probes were installed at 10, 20, 30, 40, 50 and 60 feet bgs near former soil gas probe SG41, which was located in the vicinity of former Building P414. The primary VOCs detected were 1,1-DCA, 1,1,1-TCA and PCE at peak concentrations of 55 µg/L at 10 feet bgs, 55 µg/L at 10 feet bgs and 7.7 µg/L at 40 feet bgs, respectively. In general, VOC concentrations decreased with depth and were below the soil screening level calculated based on the Regional Board's Interim Site Assessment and Cleanup Guidebook (May 1996). However, 1,1-DCA concentrations detected at 10 and 20 feet bgs exceed the screening level for 1,1-DCA of 35 µg/L. This area was further assessed in 2002 (see Item 5).

A total of 83 soil samples were collected at 5-foot depth interval from 8 soil borings drilled to maximum depth of 61.5 feet bgs in the vicinity former soil borings SB6 and SB11. The purpose of the supplementary borings was to delineate the extent of thallium, lead and selenium contamination detected during the initial investigation. During this investigation, heavy metals were not detected above the Total Threshold Limit Concentration (TTLC) or ten times the STLC based on the CCR, Title 22. Lead was detected at a maximum concentration of 28 mg/kg at 10 feet bgs and the remainder of the samples had lead concentrations less than or equal to 2.5 mg/kg. Thallium and selenium were not detected in any of the soil samples analyzed. Chromium (total) was found at a peak concentration of 21 mg/kg at 45 feet bgs in boring SB18.

Based on these results, it appears that the lead, thallium and selenium contamination, which was detected during the initial assessment, is limited in the immediate area of former borings SB6 and SB11 and between depths of 30 feet and 40 feet bgs. The concentrations of these metals slightly exceed ten times their STLCs, but below their respective TTLCs based on the CCR, Title 22. Metal concentrations were also below the USEPA PRGs (2002) for residential and industrial sites, except 81 mg/kg of thallium at 40 feet bgs, which exceeded the residential and industrial PRGs of 5.2 mg/kg and 67 mg/kg, respectively. Thallium should not be a concern since there is no exposure pathway. The metals contamination does not appear to pose a threat to groundwater quality.

5. In 2002, Lockheed Martin conducted further soil and soil vapor investigations in response to the Regional Board staff's letter dated October 9, 2001 based on the year 2000 site assessment results. Multi-depth soil vapor probes were installed at eight locations to a maximum depth of 180 feet bgs. Seven VOCs were detected in soil vapor samples including chloroform, 1,1,1-TCA, carbon tetrachloride, PCE, TCE, Freon-113 and xylenes. The maximum VOC concentration detected was 24 µg/L of Freon-113 at 180 feet bgs. The most frequently detected VOC was TCE at a maximum concentration of 9.4 µg/L at 180 feet bgs. In general, VOC concentrations were highest at 180 feet bgs, which is just above the smear zone. VOC concentrations were either non-detect (< 1 µg/L) or below 5 µg/L at soil vapor probes located between 20 and 55 feet bgs.

Thirty five (35) soil samples were collected for heavy metal analyses from fourteen borings drilled to a maximum depth of 20 feet bgs. The soil borings were located in three areas of concern: 1) aboveground chemical process tanks previously located in former Building 20 (current Building 7B) and former Building 20A (currently Building 7A) and aboveground process tank area in former Building P414. Laboratory testing results indicated that heavy metal concentrations decreased with depth and were below applicable TTLCs and ten times times STLCs based on the CCR, Title 22 and USEPA Region 9 PRGs (2002).

Five soil samples from boring SB20 located near a former PCE degreaser in former Building 20 were also analyzed for VOCs. Benzene, toluene, PCE, 1,1,1-TCA and acetone were detected in the samples collected at 1 and 5 feet bgs. The maximum VOC concentration detected was 44 µg/kg of 1,1,1-TCA at 5 feet bgs. No VOCs were detected at 10 and 20 feet bgs. The boring was converted to a multi-depth soil vapor probe, but no VOCs were detected above the detection limit of 1 µg/L.

6. Groundwater beneath the site occurs at approximately 224.8 feet bgs (July 2002) as measured at monitoring well B-5-CW03, which is located immediately downgradient from former Plant B-5. Well B-5-CW03 was dry during the October 2002, January 2003, and October 2003 monitoring events. Groundwater flow direction is towards the south-southeast

   Based on the July 2002 groundwater monitoring period, the only dissolved metals detected at downgradient well B-5-CW03 were 0.116 mg/L of barium, 0.006 mg/L of molybdenum and 1.0 mg/L of zinc. These metals were also detected at similar concentrations in upgradient and cross gradient monitoring wells. All metal concentrations were below primary drinking water standards. Groundwater remediation for metals is not warranted in this area based on the current concentrations.

   In July 2002, eight VOCs were detected in groundwater monitoring wells located in the vicinity of former Plant B-5. Maximum concentrations of PCE (180 µg/L), TCE (1,400 µg/L), and 1,1-dichloroethene (1,1-DCE) (27 µg/L) were generally higher in upgradient wells C-1-CW03 and C-1-CW07 and cross-gradient well C-1-CW06 compared with downgradient well B-5-CW03, indicating an off-site upgradient source(s). Concentrations of carbon tetrachloride (9.7 µg/L), chloroform (12 µg/L), 1,2-dichloroethane (1,2-DCA) (8.4 µg/L), 1,1,2-trichloroethane (5.3 µg/L) and 1,2,3-trichloropropane (1,2,3-TCP)(8.5 µg/L) were detected only in downgradient well B-5-CW03. Reportedly, these VOCs (except 1,2,3-TCP) have been historically detected in upgradient, cross gradient and downgradient wells and their concentrations have been declining since the early 1990s. VOC concentrations detected in downgradient well B-5-CW03 exceeded the Maximum Contaminant Level (MCL) and/or Action Level, except chloroform and 1,1-DCE. Currently, VOC-polluted groundwater within the Burbank Operable Unit (BOU), including the former Plant B-5 area, is extracted and treated as part of the USEPA's regional cleanup efforts in the San Fernando Valley Superfund site.

CONCLUSIONS:

Metal concentrations detected in soil samples were below the TTLC and the STLC criteria based on the CCR, Title 22, except for thallium, lead and selenium. These metals appear to be limited in the area of borings SB6 and SB11 and between 30 feet and 40 feet bgs at concentrations that slightly exceeded ten times their STLCs, but below their respective TTLCs based on the CCR, Title 22. Metal concentrations

were also below the USEPA PRGs (2002) for residential and industrial sites, except 81 mg/kg of thallium at 40 feet bgs, which exceeded the residential and industrial PRGs of 5.2 mg/kg and 67 mg/kg, respectively. Thallium should not be a concern since there is no exposure pathway. The metals contamination does not appear to pose a threat to groundwater quality.

VOC concentrations detected in soil vapor and soil matrix samples were below the VOC screening level for groundwater protection based on the Regional Board's Interim Site Assessment and Cleanup Guidebook (May 1996), except 1,1-DCA, PCE and TCE. Peak vapor concentrations of 1,1-DCA (55 µg/L at 10 feet bgs), PCE (15 µg/L at 180 feet bgs), and TCE (9.4 µg/L at 180 feet bgs) exceeded their respective screening levels of 35 µg/L, 9 µg/L and 4 µg/L, respectively. Vapor samples obtained from multi-depth probes showed that VOC concentrations were generally highest at the deepest probe (180 feet bgs), which is just above the smear zone. VOC concentrations were below the USEPA PRGs (2002).

The latest groundwater monitoring data (July 2002) showed low concentrations of barium, molybdenum and zinc from downgradient well B-5-CW03. These metals were also detected at similar concentrations in upgradient and cross gradient monitoring wells. All metal concentrations were below primary drinking water standards. Hexavalent chromium was not detected in groundwater samples during the July 2002 monitoring event. Based on the current low concentrations of metals in the groundwater as detected in downgradient monitoring well B-5-CW03, groundwater remediation for metals is not warranted in this area. However, the Regional Board may require groundwater cleanup for metals in the future if new information is obtained, such as concentrations that are approaching or which exceed drinking water standards or conditions arise that threaten drinking water wells or water quality in lower aquifers.

Groundwater sampling and testing conducted in July 2002 also detected VOCs, primarily PCE and TCE, in groundwater monitoring wells located in the vicinity of former Plant B-5. The concentrations of PCE, TCE and 1,1-DCE were generally higher in upgradient wells C-1-CW03 and C-1-CW07 and cross-gradient well C-1-CW06 compared with downgradient well B-5-CW03. Carbon tetrachloride, chloroform, 1,2-DCA, 1,1,2-trichloroethane and 1,2,3-TCP were detected only in downgradient well B-5-CW03. Reportedly, these VOCs (except 1,2,3-TCP) have been historically detected in upgradient, cross gradient and downgradient wells and their concentrations have been declining since the early 1990s. VOC concentrations detected in downgradient well B-5-CW03 exceeded the Maximum Contaminant Level (MCL) and/or Action Level, except chloroform and 1,1-DCE. Currently, VOC-polluted groundwater within the Burbank Operable Unit (BOU), including the former Plant B-5 area, is extracted and treated as part of the USEPA's regional cleanup efforts in the San Fernando Valley Superfund site.

Based on the results of multi-phase assessments, depth to groundwater and current land use, metals and VOCs found in the vadose zone do not appear to pose a significant threat to groundwater quality and human health. Therefore, we have no further soil requirements with respect to the San Fernando Valley Cleanup Program. However, Lockheed Martin must continue to monitor the groundwater in the vicinity of former Plant B-5 for heavy metals and VOCs as part of the groundwater monitoring in the BOU.

This soil only *no further requirements* determination does not affect future requirements for either assessment or cleanup of potential source areas at the subject site, including the metals and VOC-impacted areas or the current or future requirements related to cleanup of polluted groundwater underlying the subject site. In the event that new information is obtained, such as: a) previously undiscovered subsurface features; and b) signs of soil contamination discovered during future site

redevelopment activities, Regional Board staff must be notified in writing within five (5) days after the discovery. Regional Board staff may require additional soil assessment or cleanup upon review of the new information. If there will be a change of land use, the project proponent or current property owner must notify Regional Board staff in writing at least twenty (20) days prior to planned construction, demolition, or facility use change. Furthermore, this Regional Board's *no further requirements* decision does not affect the jurisdictional requirements of other agencies, such as the U.S. Environmental Protection Agency. Such agencies may choose to make their own determinations regarding the subject site.

Please note that staff oversight charges for work associated with this *No Further Requirements* letter will be billed on the 2nd quarter (April-June) 2004 invoice, in the same manner as previously billed.

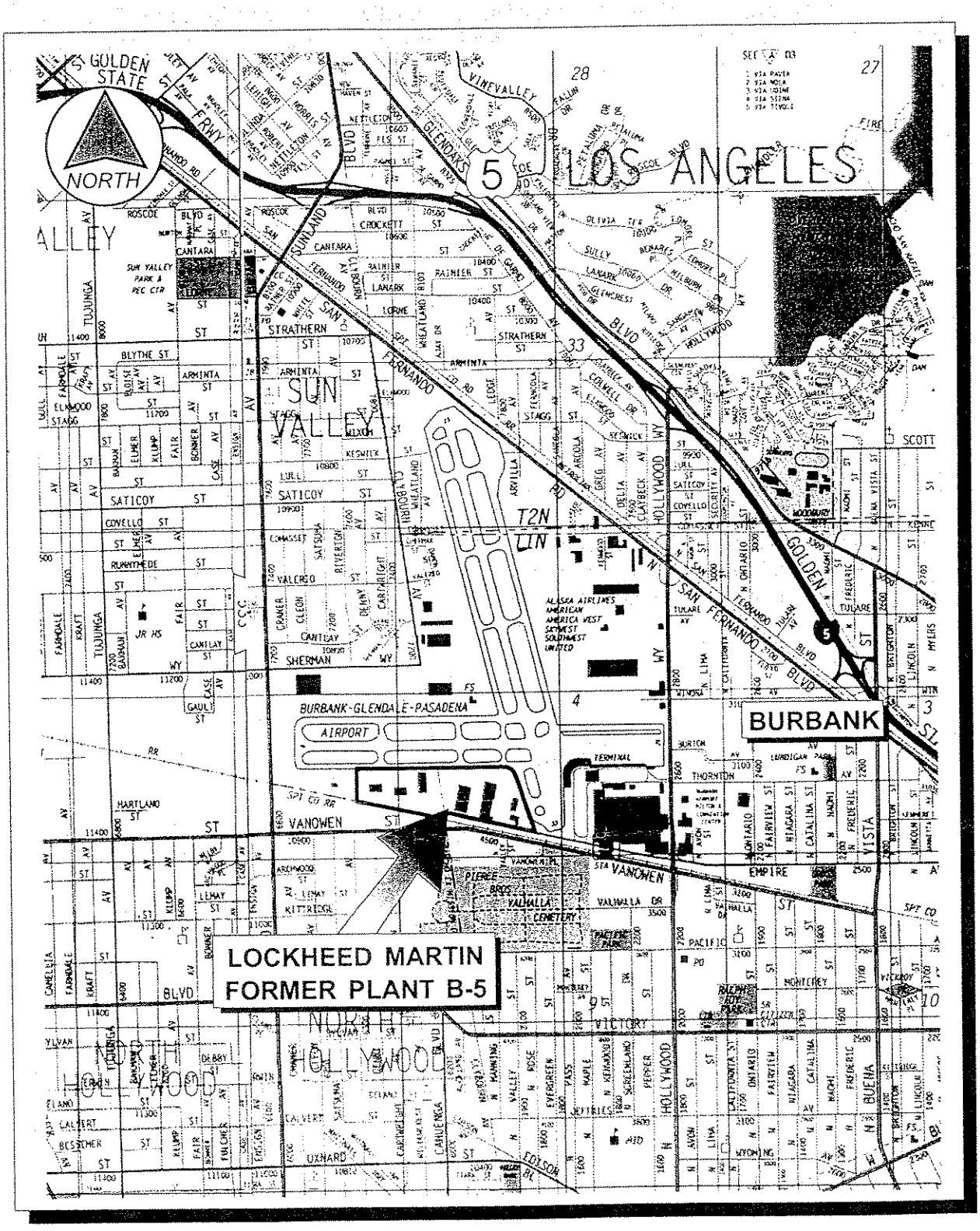
If you have any questions, please call Mr. J. T. Liu at (213) 576-6667 or Mr. Alex Carlos at (213) 576-6726.

Sincerely,

Dennis A. Dickerson
Executive Officer

cc: Rachel Loftin, U.S. EPA, Region IX
Sayareh Amirebrahimi, Department of Toxic Substances Control, Glendale Regional Office
Joseph Crisologo, California DHS, Drinking Water Field Operations Branch
Shahin Nourishad, L. A. County Fire Dept., Health Hazmat
Mark Markawski, ULARA Watermaster
Robert Ovrom, City of Burbank.
Fred Lantz, City of Burbank
Bruce Feng, City of Burbank
Roger Baker, City of Burbank
Dennis Barlow, City of Burbank
Devin Burns, City of Burbank
Neil Shukla, Tetra Tech, Inc.
Dan Feger, Burbank-Glendale-Pasadena Airport Authority

FIGURE 2-1
SITE LOCATION MAP



California Regional Water Quality Control Board

Los Angeles Region

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Alan C. Lloyd, Ph.D.
Agency Secretary

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger
Governor

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BURBANK-GLENDALE-PASADENA AIRPORT AUTHORITY

Dan
cc: DIS

April 7, 2005

Mr. Dan Feger
Deputy Executive Director
Burbank Glendale Pasadena Airport Authority
2627 Hollywood Way
Burbank, California 91505

NO FURTHER REQUIREMENTS – FORMER MARTIN AVIATION, 2800 CLYBOURN AVENUE, BURBANK, CALIFORNIA. (FILE NO. 104.1299)

Dear Mr. Feger:

California Regional Water Quality Control Board, Los Angeles Region, ("Regional Board") staff met with you on March 31, 2005 to discuss, and have reviewed our files regarding the former Martin Aviation facility which leased from Burbank Glendale Pasadena Airport Authority (BGPAA) between 1984 and 2001; additionally the Regional Board reviewed available documents regarding Lockheed Aerospace operations between 1946 and 1978. Based on the these findings, no further requirements need be met with respect to this Regional Board's *Chromium VI Investigation* in San Fernando Valley.

However, if new contamination is encountered during future site construction or redevelopment activities, you are required to provide verbal notification to this Regional Board immediately and submit a follow-up written report within 72 hours. In addition, appropriate health and safety measures must be fully implemented. Any contaminated soils that may be removed from the site shall be removed only to a United States Environmental Protection Agency (USEPA), and/or California Environmental Protection Agency-Department of Toxic Substance Control (Cal EPA-DTSC) approved facility.

It should be noted that this letter in no way releases you from responsibility regarding other chemicals or releases to the environment from your property. Additionally, the jurisdiction requirements of other agencies, such as the USEPA, and Cal EPA-DTSC, are not affected by this Regional Board's "no further requirements" determination. Such agencies may choose to make their own determination concerning the Site.

If you have any questions regarding this matter, please call Mr. Dixon Oriola at (213) 576-6803, or Mr. Alex Lapostol at (213) 576-6807.

Sincerely,

Jonathan S. Bishop
Executive Officer

cc: Mr. Leighton Fong, City of Glendale
Mr. Mark Mackowski, Upper Los Angeles River Area Watermaster
Mr. Thomas Erb, Los Angeles Department of Water & Power
Mr. David Stensby, USEPA Superfund Division, Region IX, San Francisco
Mr. Bill Mace, City of Burbank Water Supply Department

W.O. 10.1 +0
95-36-1101

STATE OF CALIFORNIA—ENVIRONMENTAL PROTECTION AGENCY

PETE WILSON, *Governor*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600

April 5, 1996

Mr. Dan Feger
Burbank-Glendale-Pasadena Airport Authority
2627 Hollywood Way
Burbank, CA 91505

NO FURTHER REQUIREMENTS/SUPPLEMENTAL SOIL GAS INVESTIGATION REPORT (File No. 104.1685)

We are in receipt of the "Supplemental Soil Vapor Surveys, Six Sites, Burbank-Glendale-Pasadena Airport, Burbank, California" report, dated January 1996, prepared by Fugro West, Inc. This report is in general accordance with requirements in our letter of October 25, 1995, to evaluate six areas (i.e., Old Trapper's property, former American Drug and Chemical, former paint storage area, former Bo Jamison Company wash rack, former Civil Air Patrol fire pit and former bunker simulated gasoline fire pit) within the limits of the Burbank Airport.

During this subsurface investigation, soil vapor samples were collected from depths of 5' and 15' below ground surface (bgs) at 38 probe locations at the six sites noted above. Seven VOCs (i.e, carbon tetrachloride, 1,1,1-TCA, TCE, PCE, toluene, ethylbenzene, xylenes) were detected in these soil gas samples. The highest VOC concentration detected was 11 ug/L 1,1,1-TCA

Results of this supplemental assessment work and previous subsurface investigations indicate that the minor soil contamination identified at the subject sites is below soil screening levels noted in our guidebook (Interim Site Assessment & Cleanup Guidebook, March 1996) and not a substantial threat to ground water quality. Therefore, no additional assessment or cleanup is necessary.

The jurisdictional requirements of other agencies, such as the U.S. Environmental Protection Agency, are not affected by the Board's "no further requirements" decision. Such agencies may choose to make their own determinations regarding the site.

p:\airport\nfa.2

If you have any questions, please call Alex Carlos at (213) 266-7583.

ERIC NUPEN, R.G.
Senior Engineering Geologist

cc: Mr. David Seter, USEPA, Region IX
Mr. Mel Blevins, ULARA Watermaster

p:\airport\nfa.2

Document #8
95-36-1091

STATE OF CALIFORNIA—ENVIRONMENTAL PROTECTION AGENCY

PETE WILSON, *Governor*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600

RECEIVED
JUN 10 1996
ENGINEERING

June 7, 1996

Dan Feger
Burbank-Glendale-Pasadena Airport Authority
2627 Hollywood Way
Burbank, CA 91505

Ron N. Helgerson
Lockheed Martin Corporation
Burbank Program Office
2550 North Hollywood Way, Suite 301
Burbank, CA 91505-1055

Subsurface Investigation Workplan, Former Lockheed Plant B-5, Burbank, CA (File No. 104.5167)

We have reviewed the Burbank-Glendale-Pasadena Airport Authority's (dated April 1996) and Lockheed Martin's (dated April 18, 1996) environmental audit reports for the former Lockheed Plant B-5 site which is currently owned by the Airport Authority. The audit reports documented past and present operations during the period of Lockheed ownership and use (1936 to 1978), and during the Airport Authority's ownership from 1978 to present. The audit reports identified areas of environmental concern within the former Plant B-5 that require further characterization to determine if past and present site operations have impacted soil and ground water. A work plan that addresses the subject areas of concern must be submitted by **September 30, 1996.**

Also, a copy of the Hertz Corporations' Baseline Environmental Assessment report (prepared by Ninyo & Moore, dated October 1995) discussed in the Airport Authority's report must be submitted.

If you have questions regarding this matter, please call Alex Carlos at (213) 266-7583.

ERIC NUPEN, R.G.
Senior Engineering Geologist

EN:apc
cc: Jorge Leon, SWRCB, Office of the Chief Counsel
David Seter, U.S. EPA, Region IX
Mel Blevins, ULARA Watermaster
Josef Solares, City of Burbank, Fire Department, UST Program

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COPY - Tom McNeilan

STATE OF CALIFORNIA—ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, *Governor*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600

File - Fugro - Misc Docs
To: Dan Fuger

July 28, 1995

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ADMINISTRATION

Mr. Dios Marrero
Burbank-Glendale-Pasadena Airport Authority
2627 Hollywood Way
Burbank, CA 91505

FORMER MAINTENANCE YARD, 4750 WHEATLAND AVENUE, LOS ANGELES
(File No. 104.1685)

The Airport Authority on its volition had previously conducted environmental assessments including soil gas and soil matrix samplings on the subject site and had removed the stained surface soil in the central part of the property as the result of the assessment.

Based on Regional Board staff's site inspection on May 11, 1995, and review of file records and reports, we have determined that "no further action" is required at the subject site with respect to the Well Investigation Program.

However, you are requested to notify this Board of any change in your operations at this location including storage and handling of chemicals or processing and disposal of any waste. Please note that this letter in no way releases you from any chemical and/or waste handling requirements of this or any other agency.

Please call Alex Carlos at (213) 266-7583 if you have any questions regarding this matter.

HUBERT H. KANG
Senior Water Resource
Control Engineer

cc: David Seter, U.S. EPA, Region IX

c:\Airport\oldmyard\nfa

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
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Fax to Fugro

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October 16, 1995

Mr. Dan Feger
Burbank-Glendale-Pasadena Airport Authority
2627 Hollywood Way
Burbank, CA 91505

Review of Environmental Assessment Reports, Hensler Acquisition
7550 Wheatland Avenue, Sun Valley, CA (File No. 104.1593)

We have reviewed the Phase I and Phase II Environmental Assessment Report (August 21, 1992) and the Soil Excavation Report (October 24, 1994) for the subject site.

Based on the results of the assessments and the soil remediation, we have determined that "no further action" is required at the subject airport-owned parcel with respect to the Well Investigation Program. However, you are requested to notify this Board of any change in your operations including storage and handling of chemicals or processing and disposal of any waste.

Note that this letter in no way releases you from any chemical and/or waste handling requirements of this or any other agency.

Please contact Alex P. Carlos at (213) 266-7583 if you have any questions.

HUBERT H. KANG
Senior Water Resource
Control Engineer

HHK:apc

cc: David Seter, USEPA, Region IX
Mel Blevins, ULARA Watermaster
Robert R. Hensler

c:\airport\hensler\nfa.ltr

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
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October 20, 1995

Mr. Dan Feger
Burbank-Glendale-Pasadena Airport Authority
2627 Hollywood Way
Burbank, CA 91505

ENVIRONMENTAL ASSESSMENT REPORT, FORMER LOCKHEED PLANT B-5
(File No. 104.5167)

During our meeting on May 9, 1995, we discussed the Regional Board's site investigation on the Airport-owned properties, including the former Lockheed Plant B-5 site which is located on the southwest corner of Runway 15-33 and 8-26. We also discussed the need for an environmental assessment (i.e., site audit) for the former Plant B-5 to evaluate whether facility operations may have caused any soil or groundwater contamination. An environmental assessment is generally required for sites that have used various chemicals through the history of their operation.

The Regional Board requests the Airport to prepare the environmental assessment documenting the past and present industrial operations of all buildings and areas on the former Plant B-5. Upon review of the environmental assessment report, we will conduct a facility site inspection and we may require you to conduct soil and soil gas investigations to evaluate potential areas of contamination.

The environmental assessment report is due to this Regional Board by **December 31, 1995**. It must address the items in the enclosed site audit questionnaire including, but not limited to, the following:

1. Review and evaluate historic records pertinent to the site.

2. Review aerial photographs and identify potential sources.

3. Provide scaled facility drawings depicting past and present buildings and structures such as aboveground and underground tanks, sumps, clarifiers and associated piping, degreasers/parts cleaner, sanitary sewer lines, storm drain trench, etc.

4. Discuss the results of previous and ongoing site investigations (e.g., underground storage tank, soil and groundwater investigations).

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5. Discuss past and present machine maintenance and solvent use practices.

6. Provide an inventory of past and present aboveground and underground tanks, sumps, clarifiers and degreasers. A table showing tank number, location, date installed, capacity, use, contents, status and other related information would be useful.

7. Discuss the construction detail, nature of past and present operations and results of interviews and site inspection for each building or area.

8. Discuss the operational history and chemical usage (e.g., volume, rate and type of chemicals) in the former Pit 60 wash rack in the Building 31 area and all degreasers, including those located in Building 414, 20 and 20A.

9. Provide a summary of potential environmental concerns identified during the environmental assessment.

If you have questions regarding this matter, please call Alex Carlos at (213) 266-7583.

HUBERT H. KANG
Senior Water Resource
Control Engineer

HHK:apc

cc: Jorge Leon, SWRCB, Office of the Chief Counsel (w/o enclosure)
David Seter, U.S. EPA, Region IX (w/o enclosure)
Mel Blevins, ULARA Watermaster (w/o enclosure)
Josef Solares, City of Burbank, Fire Department, UST Program (w/o enclosure)
Ron Helgerson, Lockheed Martin Corporation, Burbank Program Office (w/enclosure)

Enclosure

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION - WELL INVESTIGATION PROGRAM
SITE AUDIT QUESTIONNAIRE

You are required to complete this Site Audit Questionnaire to provide supplemental information to the Chemical Use Questionnaire and site inspection by Board staff. Site Audit Questionnaires are typically required of sites for several reasons including, those which have been developed for many years and have used various chemicals through the history of their operation. Your facility is located geographically within the area where sampling results indicate the presence of organic contaminants in the groundwater.

Pursuant to Section 13267(b) of the California Water Code, we request that you answer the questions included in the attached questionnaire as regarding your facility. Please sign and submit this information to the Regional Board by _____.

THIS QUESTIONNAIRE SHALL BE SIGNED BELOW AS FOLLOWS:

By a principal executive office, a duly authorized representative, a general partner, the proprietor, or other duly authorized employee.

This questionnaire has been completed under penalty of perjury and, to the best of my knowledge, is true and correct.

Signature:_____ Date:_____
Printed Name:_____
Title:_____ Phone:_____

Contact Name:_____
Title:_____ Phone:_____

FACILITY NAME:_____ FILE NUMBER:_____
ADDRESS:_____

 WIP File No._____
(Please attach and reference additional pages as necessary)

I. GENERAL DESCRIPTION OF SITE (Attach a facility plan or map if available)

Describe the physical characteristics of the site, including but not limited to, the following:

A. Changes in physical plant (e.g. tanks, degreasers, pipelines, clarifiers/sumps/septic tanks installed or removed)?

_____
_____
_____

1. Describe these changes, giving date, nature of change, and location.

_____
_____
_____
_____
_____

2. If any of the above were removed, was the removal supervised or permitted by a governmental agency? Specify which agency and when the removal occurred. Attach copies of permits and/or reports.

_____
_____
_____
_____

3. If available, provide the number of the tanks (above ground and underground) maintained and the volume.

_____
_____
_____

B. Past and present storm water drainage system, sanitary sewer systems, including the use of any private sewage disposal system.

_____
_____
_____
_____

 WIP File No._____
(Please attach and reference additional pages as necessary)

C. Any and all additions, demolitions, or changes of any kind to physical structures on, under, or about the site, or to the property itself (e.g., excavation work) and state the dates on which such changes occurred.

_____
_____
_____
_____

D. Have there been any changes in general plant design or construction? Describe, and provide dates.

_____
_____
_____

II. SITE USE AND OPERATIONS

A. Identify all prior owners of the site and the dates of their ownership.

_____
_____
_____
_____
_____

B. Identify the prior operators and lessees of the site, for each such operator or lessee, further identify:

a. The dates of their operation at the site.

_____
_____
_____
_____

b. The nature of their operations at the site.

_____
_____
_____
_____

 WIP File No._____
(Please attach and reference additional pages as necessary)

c. All evidence that hazardous materials were released or threatened to be released at the site during the period in which they were operating at the site.

_____
_____
_____
_____
_____

C. Describe the major processes involved in operation:

1. List all processes in which solvents are used.

_____
_____
_____
_____
_____
_____
_____

D. Provide a historical summary of chemicals used (including the technical name, ingredients, quantity stored) on site and usage rate for the past ten years.

_____
_____
_____
_____
_____
_____
_____

E. From whom are chemicals purchased? In what quantities are they received?

_____
_____
_____
_____

 WIP File No._____

(Please attach and reference additional pages as necessary)

III. WASTES AND WASTE MANAGEMENT

A. What are the sources of industrial waste from site? (Identify sources by process, composition of wastes generated, and approximate quantities)

_____

_____

_____

_____

_____

B. Where and how is waste being stored?

_____

_____

C. How long is waste stored?

_____

_____

D. What wastes are stored?

_____

_____

E. Are wastes being manifested properly?

_____

_____

F. Waste disposition (yes or no, as appropriate)

a) Dumpster_____

b) Ground around facility_____

c) Left at remote site_____

d) Municipal trash _____

e) On site recycling, treatment, reclamation_____

f) Offsite recycling, treatment, reclamation_____

g) Septic tank _____

h) Sewer_____

i) Transported to Landfill/Dump_____

j) Transported to hazardous waste facility by waste Hauler (Identify facility and Hauler)

_____

_____

_____

k) Other(Specify)_____

_____

_____

l) Identify any changes in the above over time, giving date and nature of change _____

_____

_____

_____

Cal/EPA

Los Angeles
Regional Water
Quality Control
Board

01 Centre Plaza Drive
Monterey Park, CA
1754-2156
213) 266-7500
AX (213) 266-7600

Pete Wilson
Governor

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August 29, 1997

Ron N. Helgerson
Lockheed Martin Corporation
Burbank Program Office
2550 North Hollywood Way, Suite 301
Burbank, CA 91505-1055

Site Investigation Work Plan, Former Plant B-5 (File No. 104.5167) (Cleanup and Abatement Order No. 87-161)

We have received the May 9, 1997, "Site Investigation Work Plan, Former Plant B-5, Burbank, California", prepared by your consultant, Tetra Tech. This submission presents details of planned assessment at the site to evaluate whether potential sources of liquid wastes at the former Plant B-5 site have impacted soil and ground water.

Upon review of the work plan and after discussing the proposed work during our site visit on August 15, 1997, we have no objections to implementation of the work with the following comments and conditions. Attached is a table adapted from the work plan.

Soil Borings

1. Collect soil matrix samples in the following areas and analyze for metals:

   - Chemical process line consisting of 10 aboveground tanks previously located at the north side of former Lockheed Building 414. Locate the borings near tanks D6, D5 and the sewer line.

   - Former chemical process line inside former Building 5. Locate borings near tank A10 and along the north-south drain line.

   - Clarifiers located in the south part of Hangar 6 and in the former Pit 60 Wash Rack.

2. Eastern Clarifier, Hangar 6

The proposed soil boring (SB-5) adjacent to the clarifier located outside the southeast corner of Hangar 6 may be eliminated. Upon inspection, this feature appears to be a utility pit.

Soil Gas Points

All soil gas sampling and analysis must be performed in accordance with the Regional Board's Interim Guidance for Active Soil Gas Investigation (February 25, 1997). In addition, a sampling depth of approximately 10' bgs or deeper

must be used to sample beneath subsurface features (tanks, clarifiers) and backfill material or disturbed soil placed during building demolition and site redevelopment. The following areas must be assessed using soil vapor sampling and analysis to determine the presence of volatile organic compounds:

1. Hangar 3 (former Lockheed Building 341)

   Collect soil gas samples inside Hangar 3 using a 50-foot grid spacing with one point adjacent to the parts washer currently used by Avjet and in the area of 7 aboveground solvent tanks previously located east of Hangar 3 as shown on a 1965 site map (Tetra Tech, Environmental Assessment Report, Former Plant B-5, Appendix C, April 18, 1996). Hangar 3 was previously used for tank sealing operation.

2. Pit 60 Wash Rack

   Collect one soil gas sample adjacent to the clarifier located southeast of the wash rack and a sufficient number of samples in the Wash Rack area and drain collection sump using a 50-foot grid spacing to evaluate those areas.

3. Hangar 4 (former Lockheed Building 24)

   Collect soil gas samples in the former paint booth located inside the southwest corner of Building 24 as shown on 1953-66 Sanborn Insurance maps (Tetra Tech, Environmental Assessment Report, Former Plant B-5, Appendix B, April 18, 1996), adjacent to a former parts washer (south end of Hangar 4 and east of former paint booth) used by First Interstate, and inside Hangar 4 using a 50-foot grid spacing.

4. Hangar 5 (former Lockheed Building 23)

   Relocate soil gas point SG-2 closer to the flammable storage shed. Collect soil gas samples inside Hangar 5 using a 50-foot grid spacing with one sample point placed adjacent to a parts washer currently used by MCA (north end of Hangar 5).

5. Hangar 6 (former Lockheed Building 25)

   Collect soil gas samples adjacent to the 2 clarifiers located on the south side and outside southwest corner of Hangar 6, adjacent to the parts washer used by EarthStar and inside Hangar 6 using a 50-foot grid spacing.

6. Hangar 7 (former Lockheed Building 20B)

   Collect two soil gas samples outside the northwest corner of Hangar 7 where a 250-gallon aboveground solvent tank was previously located and inside Hangar 7 using a 50-foot grid spacing with one soil gas point adjacent to the parts washer (northwest corner of Hangar 7) used by Mercury Aviation.

7. Hangar 7A (former Lockheed Building 20A)

   Collect one soil gas sample outside the northwest corner of Hangar 7A where a 50-gallon PCE degreaser was previously located (relocated from Building 20) and inside Hangar 7A using a 50-foot grid spacing with one soil gas point near the parts washer (north part of Hangar 7A) used by Arco.

8. Air Cargo Building

   Verify the location of proposed points SG13 and SG14 to assess the former paint shop (Building 10) and paint booth (east of Building 41). SG13 and SG14 appear closer to former Building 32 than Buildings 10 and 41

9. FAA Building

   Collect soil gas samples in the former drum storage area located outside the northeast corner of former Lockheed Building 5 as shown on a 1941 aerial photo (Lockheed, Aerial Remote Sensing of Ground Water Contamination Sources, Eastern San Fernando Valley: 1937-1964, December 1986) and adjacent to the two former clarifier areas.

10. Former Lockheed Building 344

    Collect soil gas samples in the vicinity of 7 above ground solvent tanks previously located north of former Lockheed Building 344 (now part of Avis) and south of Pit 60 Wash Rack as identified on a 1965 site map (Tetra Tech, Environmental Assessment Report, Former Plant B-5, Appendix C, April 18, 1996). Although a soil gas survey was previously conducted at the Avis site in 1991, the samples were analyzed only for aromatic VOCs and petroleum hydrocarbons.

11. Former Lockheed Building 345

    Conduct soil gas sampling in the area of former Building 345 (west of Hangar 3) where tank sealing operations were previously conducted using a 50-foot grid spacing.

Central Clarifier, Hangar 6

During the inspection of the clarifier inside Hangar 6, Board staff observed part of the clarifier bottom in the inlet chamber had been eroded and the sand backfill below the clarifier is visible. The clarifier must be repaired or abandoned to prevent unregulated discharges of wastewater to the soil and ground water. Apparently, this clarifier is no longer in use.

Field work must commence by **October 15, 1997**. Board staff must be notified at least **three days** prior to field work. A report containing the results of the proposed assessment must be submitted within **30 days** of receipt of laboratory reports. Supplementary subsurface soil assessment may be required based on the results of the proposed Phase 1 assessment.

If you have questions, please call Alex Carlos at (213) 266-7583.

ERIC NUPEN, R.G.
Senior Engineering Geologist

cc: Jorge Leon, SWRCB, Office of the Chief Counsel
Duane James, U.S. EPA, Region IX
Mel Blevins, ULARA Watermaster
Dan Feger, Burbank-Glendale-Pasadena Airport Authority
Scott Warren, Lockheed Martin Corporation

Attachment

Proposed Investigation Areas, Former Lockheed Martin Plant B-5

Feature No.	Location	Feature	Number of Soil Borings	Number of Soil Gas Points
1	Hangar 3	UST abandoned-in-place	1	0
2		7 aboveground solvent tanks	0	4*
3		Avjet parts washer (north end)	0	1*
4		hangar interior	0	50-foot grid *
5	Pit 60 Wash Rack	clarifier/drain collection sump	1	1*
6		paint solvent UST	0	1
7		wash rack area/drain collection sump	0	50-foot grid *
8	Hangar 4	hangar interior	0	50-foot grid *
9		First Interstate parts washer (south end, east of former paint booth)	0	1*
10		former paint booth (SW corner)	0	2*
11	Hangar 5	flammable liquid storage shed/former ASTs/degreaser	2*	8
12		MCA parts washer (north end)	0	1*
13		hangar interior	0	50-foot grid *
14	Hangar 6	western clarifier	1	1*
15		central clarifier	1	1*
16		EarthStar parts washer (SW corner)	0	1*
17		hangar interior	0	50-foot grid *
18	Hangar 7	solvent tank (outside NW corner)	0	1*
19		Mercury parts washer (NW corner)	0	1*
20		hangar interior	0	50-foot grid *
21	Hangar 7A	former oil tanks	1	0
22		13 former chemical ASTs	0	1
23		former degreaser (outside NW corner)	0	1*
24		Arco parts washer (north end)	0	1*
25		hangar interior	0	50-foot grid *

Proposed Investigation Areas, Former Lockheed Martin Plant B-5

Feature No.	Location	Feature	Number of Soil Borings	Number of Soil Gas Points
26	Hangar 7B	6 former chemical ASTs/degreaser	0	1
27		former paint booth	0	1
28	Air Cargo Building	former paint shop/paint booth	0	2
29		former paint booth	0	2
30	FAA Building	diesel UST	1	0
31		two former clarifier	1	2*
32		16 former chemical ASTs	2*	2
33		former drum storage area	0	4*
34	former Building 344	7 former aboveground solvent tanks	0	4*
35	former Building 345	hangar interior (tank sealing)	0	50-foot grid *

* Additional soil borings and soil gas points

California Regional Water Quality Control Board

Los Angeles Region

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File

December 19, 2001

Mr. Dan Feger
Burbank-Glendale-Pasadena Airport Authority
2627 Hollywood Way
Burbank, CA 91505-1055

NO FURTHER REQUIREMENTS (SOIL ONLY), BUILDING 360 COMPLEX, FORMER LOCKHEED MARTIN PLANT B-6, 2801 N. HOLLYWOOD WAY, BURBANK, CALIFORNIA (FILE NO. 104.0674)

Dear Mr. Feger:

We have reviewed the *Environmental Monitoring Report, Former Plant B-6 – Building 360 Complex, Burbank, California* dated October 3, 2001. This report describes the results of sampling and visual inspection conducted during the demolition of the Building 360 Complex at the former Lockheed Plant B-6. The purpose of the monitoring was to document the environmental condition of the soil directly beneath building slabs and foundations as these features are demolished. This monitoring was conducted based on the *Foundation and Infrastructure Demolition Monitoring Plan, Plant B-6: Burbank, California* dated January 23, 1997 which was previously approved by Regional Board staff in a letter to Lockheed Martin dated March 13, 1997. The report also summarizes the results of a supplementary soil gas investigation. Based on the results of the demolition monitoring and supplementary soil gas survey, the Burbank-Glendale-Pasadena Airport Authority (BGPAA) requested closure of the Building 360 Complex.

FINDINGS:

1. The Building 360 site consists of two parcels (Parcels F and G) at the northern section of the former Lockheed Plant B-6. Parcels F and G both add up to approximately 22 acres adjacent to the Burbank-Glendale-Pasadena Airport. Lockheed first used Parcels F and G during the early 1940's for parking and servicing aircraft. In 1957, Lockheed constructed Building 360 and other structures to support aircraft flight operations, testing and maintenance.

2. As part of the environmental site assessment, Lockheed subdivided Plant B-6 into 6 areas (Areas "A" through "F"). Parcels F and G were designated as Area "A". Between June 22, 1993 and July 6, 1993, a soil boring program was completed in Area "A" to document the presence or absence of contaminants beneath 18 potential source areas. These areas were identified based on site inspections and a review of previous investigation reports. A total of 270 soil samples were collected from 29 borings drilled to a maximum depth of 60 feet below ground surface (bgs) at potential source and non-point source areas. All samples were analyzed

for Total Recoverable Petroleum Hydrocarbons (TRPH) using EPA Method 418.1, volatile organic compounds (VOCs) using EPA Method 8240, polychlorinated biphenyls (PCBs) using EPA Method 8080, semi-VOCs using EPA Method 8270, and heavy metals using EPA Method 6000/7000 series. Samples from a former service station were also analyzed for Total Extractable Hydrocarbons (TEH) using EPA Method 8015 Modified.

Laboratory analyses detected contaminants with the following maximum concentrations: 1,081 mg/kg (2 feet bgs) of TRPH; 28 µg/kg of acetone; 82 µg/kg of methylene chloride; 12 µg/kg of napthalene; 6 µg/kg of 1,2,4-trimethylbenzene; 9 mg/kg of TEH and 4.4 mg/kg of bis (2-ethylhexyl) phthalate. PCBs were not detected in any of the samples analyzed. The concentrations of heavy metals, including chromium (total), were below the Total Threshold Limit Concentration (TTLC) and the Soluble Threshold Limit Concentration (STLC) based on the California Code of Regulations Title 22 (CCR, Title 22). Chromium (total) was detected at a maximum concentration of 19.1 mg/kg (10 feet bgs in boring A360-SB13). In July 1996, TRPH and VOC impacted soil in the area of former boring SB28 was excavated to a maximum depth of 20 feet. TRPH, TEH and VOCs were not detected in confirmation samples.

3. Between March 3, 1993 and June 2, 1993, a total 96 soil vapor samples were collected at 6 feet bgs adjacent to potential source areas and on a 100-foot grid throughout Area "A". Low VOC concentrations (< 4 µg/L) were detected, including tetrachloroethene (PCE), trichloroethene (TCE) and 1,1,1-trichloroethane (1,1,1-TCA). VOC concentrations detected were below the Regional Board's VOC soil screening level of 116 µg/kg for groundwater protection.

4. Based on the investigation results, Regional Board staff issued *no further requirements* letters for Parcels F and G on July 26, 1996 and August 2, 1996, respectively.

5. In 1997, the ownership of the former Plant B-6 site was transferred to the BGPAA. During the same year, the BGPAA collected additional soil gas samples at depths of 10 and 20 feet bgs throughout the Building 360 area. Total VOCs detected ranged from non-detect to 52.3 µg/L (10 feet bgs).

6. Between April and September 2001, the BGPAA demolished all structures within the Building 360 Complex. Demolition activities included the removal of concrete slabs and foundations. The soil condition beneath the slabs and foundations were monitored for signs of contamination, such as staining, discoloration, odor or elevated photoionization detector (PID) readings. Based on a 100-foot grid, 35 soil samples were collected for headspace analysis approximately 1 foot below the slabs and foundations. Except for two samples, the majority of the samples had PID readings below the detection limit of 1 part per million (ppm). A maximum PID reading of 2 ppm was recorded. Organic vapors were not detected in ambient air samples.

oundwater

1. Groundwater beneath the Building 360 area is approximately 273 feet bgs as measured in monitoring well 4948 on January 22, 2001. Based on water quality data from 1989 through 1997, heavy metals, including barium, lead, manganese and zinc have been detected at concentrations below the Maximum Contaminant Level (MCL) in monitoring wells 4948 and B6-CW17 located upgradient and downgradient, respectively from Building 360. Chromium (total) has not been detected in the above monitoring wells during the same monitoring period.

2. Elevated concentrations of VOCs (primarily PCE and TCE) have been detected in groundwater monitoring wells 4948 and B6-CW17. For example, PCE and TCE were detected at maximum concentrations of 710 µg/L and 140 µg/L, respectively in downgradient well B6-CW17. Under a Consent Decree with the U.S. Environmental Protection Agency, Lockheed Martin is extracting and treating VOC-polluted groundwater within the Burbank Operable Unit including the Plant B-6 area.

CONCLUSIONS:

Based on the subject submittal and other information in our files, we have no further soil requirements with respect to the San Fernando Valley Cleanup Program. The concentrations of heavy metals detected in soil matrix samples were below the TTLC and the STLC criteria based on the CCR, Title 22. Based upon the above information, these contaminants remaining in the soil appear not to pose a significant threat to groundwater quality. Therefore, further soil assessment or cleanup is not required. Water quality data obtained from monitoring wells in the vicinity of Building 360 indicate that some heavy metals have been detected in the groundwater, including barium, lead, manganese and zinc. However, these contaminants were also found in a monitoring well upgradient from Building 360. Based upon current concentrations of heavy metals in the groundwater beneath the site, groundwater cleanup is not required. However, the Regional Board will consider groundwater cleanup for heavy metals in the future if new information is obtained, such as concentrations that exceed drinking water standards or heavy metal pollution that threatens drinking water wells or water quality of lower aquifers.

VOC and TRPH impacted soil detected in the former boring SB28, located in a former degreaser and spray booth, was excavated to a maximum depth of 20 feet. bgs. TRPH, TEH and VOCs were not detected in confirmation samples. VOC concentrations detected in soil and soil gas samples beneath the Building 360 area are below the Regional Board's VOC screening concentrations for groundwater protection. Currently, Lockheed Martin is extracting and treating VOC-polluted groundwater within the Burbank Operable Unit under a Consent Decree with the U.S. Environmental Protection Agency.

The soil only *no further requirements* determination for Building 360 Complex does not affect the current or future requirements related to cleanup of polluted groundwater underlying the subject site. In addition, assessment or cleanup may be needed in the event that new information is obtained, such as previously undiscovered subsurface features or signs of soil contamination discovered during future site redevelopment activities. This Regional Board's "no further requirements" decision does not affect the jurisdictional requirements of other agencies, such as the U.S. Environmental Protection Agency. Such agencies may choose to make their own determinations regarding the site.

If you have any questions, please call Alex Carlos at (213) 576- 6726.

Sincerely,

Dennis A. Dickerson
Executive Officer

cc: Michael Lauffer, Office of the Chief Counsel, State Water Resources Control Board
Robert Sams, Office of the Chief Counsel, State Water Resources Control Board
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Sayareh Amirebrahimi, Department of Toxic Substances Control, Glendale Regional Office
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