

97 FEB 28 PM 3: 46

27 February 1997 Project 3095

Ms. Susan Hugo Alameda County Health Care Services Agency 1131 Harbor Bay Parkway Alameda, CA 94502

Subject:

Underground Storage Tank Emeryville Warehouse Site 1500 Park Street, Emeryville

Dear Ms. Hugo:

Per our telephone conversations, Geomatrix Consultants, Inc. (Geomatrix) has sampled product contained in the underground storage tank (UST) located at the Emeryville Warehouse at 1500 Park Street in Emeryville, California (the Site). The purpose of the sampling was to confirm the product in the UST is petroleum and does not contain volatile organic compounds of concern. According to a former facility manager, the UST has not been used since at least the 1970's when the facility was converted to work space for artists and woodworkers.

Geomatrix collected a sample of the product on 3 February 1997 using a disposable bailer lowered through the UST fill port. The depth to product was measured to be 4.2 feet below ground surface. Since groundwater is approximately 7 feet below ground surface, significant leakage from the UST may not have occurred.

The sample was transported to Friedman & Bruya, Inc., of Seattle, Washington, a State-certified analytical laboratory, under Geomatrix chain-of-custody procedures. Analysis for "fingerprint" characterization indicated that the sample was a crude oil such as Bunker C. Analysis for volatile compounds using EPA Method 8260 did not detect compounds other than those typically associated with petroleum hydrocarbons (i.e., benzene, naphthalene). A copy of the analytical laboratory report is attached.

Based on the laboratory results, the tank appears to have contained only petroleum hydrocarbons. On behalf of our client, Emerylofts Development Company, we request your approval to remove the UST in accordance with local and State regulations during redevelopment of the Site later this year. This approval is necessary for our client to obtain a building permit from the City of Emeryville. If you concur with this approach, a brief letter from you indicating your approval will facilitate issuance of a building permit.



Ms. Susan Hugo Alameda County Health Care Services Agency 27 February 1997 Page 2

Please call either of the undersigned if you have any questions or require additional information. Thank you for your assistance.

Sincerely yours,

GEOMATRIX CONSULTANTS, INC.

Daniel Del Grande, P.E.

Project Engineer

DG/TG/dm I:\WPDOCS\3095\EMERY.DOC

Attachment

Mr. Dan McNevin, Emerylofts Development Company – 100 Bush St Cheri Page, Geomatrix Consultants Inc. 26 Hour SI= 94104 cc:

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Beth M. Albertson, M.S. Bradley T. Benson Kelley D. Wilt

97 FEB 28 PM 3: 46

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044

February 11, 1997

Dan Del Grande, Project Manager Geomatrix Consultants, Inc. 100 Pine Street, Suite 1000 San Francisco, CA 94111-5112

Dear Mr. Del Grande:

Included are the results from the testing of material submitted on February 4, 1997 from your 3095 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

elley Will

Kelley Wilt Chemist

keh

Enclosures

FAX: (415) 434-1365

GMC0211R.DOC

ENVIRONMENTAL CHEMISTS

Date of Report: February 11, 1997 Date Received: February 4, 1997

Project: 3095

Date Samples Extracted: February 4, 1997 Date Extracts Analyzed: February 4, 1997

RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE FOR FINGERPRINT CHARACTERIZATION BY CAPILLARY GAS CHROMATOGRAPHY USING A FLAME IONIZATION DETECTOR (FID) AND ELECTRON CAPTURE DETECTOR (ECD)

Sample ID

GC Characterization

P-1

The GC trace using the flame ionization detector (FID) showed the presence of medium to high boiling compounds. The patterns displayed by these peaks are indicative of a crude oil or crude oil residuum such as Bunker C.

The medium boiling compounds appeared as a pattern of peaks eluting from $n\text{-}\mathrm{C}_6$ to beyond $n\text{-}\mathrm{C}_{36}$ showing a maximum near $n\text{-}\mathrm{C}_{29}$. A regular pattern of the n- alkanes is seen for the medium boiling product.

The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis. There is a second surrogate present that is seen on the GC/ECD trace at about 26 minutes which is dibutyl chlorendate.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260

Client Sample ID: P-1
Date Received: 02/04/97
Date Extracted: 0204/97
Date Analyzed: 02/06/97
Matrix: Product
Units: ug/g (ppm)

Client: Geomatrix Consultants, Inc.

Project: 3095

Lab ID: 75634 RR 400 uL

Data File: 020613.D Instrument: GCMS1 Operator: SB

		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Dibromofluoromethane	95	89	114
1,2-Dichloroethane-d4	95	77	120
Toluene-d8	114	95	119
4-Bromofluorobenzene	108	94	114

Compounds:	Concentration ug/g (ppm)	Compounds:	Concentration ug/g (ppm)
Dichlorodifluoromethane	<10	1,3-Dichloropropane	<10
Chloromethane	<10	Tetrachloroethene	<10
Vinyl chloride	<10	Dibromochloromethane	<10
Bromomethane	<10	1,2-Dibromoethane (EDB)	<10
Chloroethane	<10	Chlorobenzene	<10
Trichlorofluoromethane	<10	Ethylbenzene	20
Acetone	<100	1,1,1,2-Tetrachloroethane	<10
1,1-Dichloroethene	<10	m,p-Xylene	100
Methylene chloride	<10	o-Xylene	50 📝
trans-1,2-Dichloroethene	<10	Styrene	<10
1,1-Dichloroethane	<10	Isopropylbenzene	<10
2,2-Dichloropropane	<10	Bromoform	<10
cis-1,2-Dichloroethene	<10	n-Propylbenzene	20
Chloroform	<10	Bromobenzene	<10
2-Butanone (MEK)	<100	1,3,5-Trimethylbenzene	80
1,2-Dichloroethane (EDC)	<10	1,1,2,2-Tetrachloroethane	<10
1,1,1-Trichloroethane	<10	1,2,3-Trichloropropane	<10
1,1-Dichloropropene	<10	4-Chlorotoluene	<10
Carbon Tetrachloride	<10	tert-Butylbenzene	<10
Benzene	<10	1,2,4-Trimethylbenzene	170
Trichloroethene	<10	sec-Butylbenzene	10
1,2-Dichloropropane	<10	p-Isopropyltoluene	30
Bromodichloromethane	<10	1,3-Dichlorobenzene	<10
Dibromomethane	<10	1,4-Dichlorobenzene	<10
4-Methyl-2-Pentanone (MIBK)	<100	1,2-Dichlorobenzene	<10
cis-1,3-Dichloropropene	<10	1,2-Dibromo-3-chloropropane	<10
Toluene	30	1,2,4-Trichlorobenzene	<10
trans-1,3-Dichloropropene	<10	Hexachlorobutadiene	<10
1,1,2-Trichloroethane	<10	Naphthalene	550
2-Hexanone	<100	1,2,3-Trichlorobenzene	<10

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260

Client Sample ID: Date Received: Date Extracted: Date Analyzed:	Method Blank 02/04/97 0204/97 02/04/97	Client: Project: Lab ID: Data File:	Geomatrix Consultants, Inc. 3095 SO 0204 MB 07-68 020411.D
Matrix:	Product	Instrument:	GCMS1
Units:	ug/g (ppm)	Operator:	SB

		Lower	Upper
Surrogates:	% Recovery	Limit	Limit
Dibromofluoromethane	106	89	114
1,2-Dichloroethane-d4	103	77	120
Toluene-d8	109	95	119
4-Bromofluorobenzene	107	94	114

Compounds:	Concentration ug/g (ppm)	Compounds:	Concentration ug/g (ppm)
Dichlorodifluoromethane	<10	1,3-Dichloropropane	<10
Chloromethane	<10	Tetrachloroethene	<10
Vinyl chloride	<10	Dibromochloromethane	<10
Bromomethane	<10	1,2-Dibromoethane (EDB)	<10
Chloroethane	<10	Chlorobenzene	<10
Trichlorofluoromethane	<10	Ethylbenzene	<10
Acetone	<100	1,1,1,2-Tetrachloroethane	<10
1,1-Dichloroethene	<10	m,p-Xylene	<10
Methylene chloride	<10	o-Xylene	<10
trans-1,2-Dichloroethene	<10	Styrene	<10
1,1-Dichloroethane	<10	Isopropylbenzene	<10
2,2-Dichloropropane	<10	Bromoform	<10
cis-1,2-Dichloroethene	<10	n-Propylbenzene	<10
Chloroform	<10	Bromobenzene	<10
2-Butanone (MEK)	<100	1,3,5-Trimethylbenzene	<10
1,2-Dichloroethane (EDC)	<10	1,1,2,2-Tetrachloroethane	<10
1,1,1-Trichloroethane	<10	. 1,2,3-Trichloropropane	<10
1,1-Dichloropropene	<10	4-Chlorotoluene	<10
Carbon Tetrachloride	<10	tert-Butylbenzene	<10
Benzene	<10	1,2,4-Trimethylbenzene	<10
Trichloroethene	<10	sec-Butylbenzene	<10
1,2-Dichloropropane	<10	p-Isopropyltoluene	<10
Bromodichloromethane	<10	1,3-Dichlorobenzene	<10
Dibromomethane	<10	1,4-Dichlorobenzene	<10
4-Methyl-2-Pentanone (MIBK)	<100	1,2-Dichlorobenzene	<10
cis-1,3-Dichloropropene	<10	1,2-Dibromo-3-chloropropane	<10
Toluene	<10	1,2,4-Trichlorobenzene	<10
trans-1,3-Dichloropropene	<10	Hexachlorobutadiene	<10
1,1,2-Trichloroethane	<10	Naphthalene	<10
2-Hexanone	<100	1,2,3-Trichlorobenzene	<10

ENVIRONMENTAL CHEMISTS

Date of Report: February 11, 1997 Date Received: February 4, 1997

Project: 3095

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF PRODUCT SAMPLES FOR VOLATILES BY EPA METHOD 8260

Laboratory Code: 75440 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
1,1-Dichloroethene		<100	<100	-	0-20
Benzene	μg/g (ppm)	170	170	nm O	0-20
Trichloroethene	μg/g (ppm) μg/g (ppm)	<100	<100	nm	0-20
Toluene	μg/g (ppm)	710	710	0	0-20
Chlorobenzene	μg/g (ppm)	<100	<100	nm	0-20

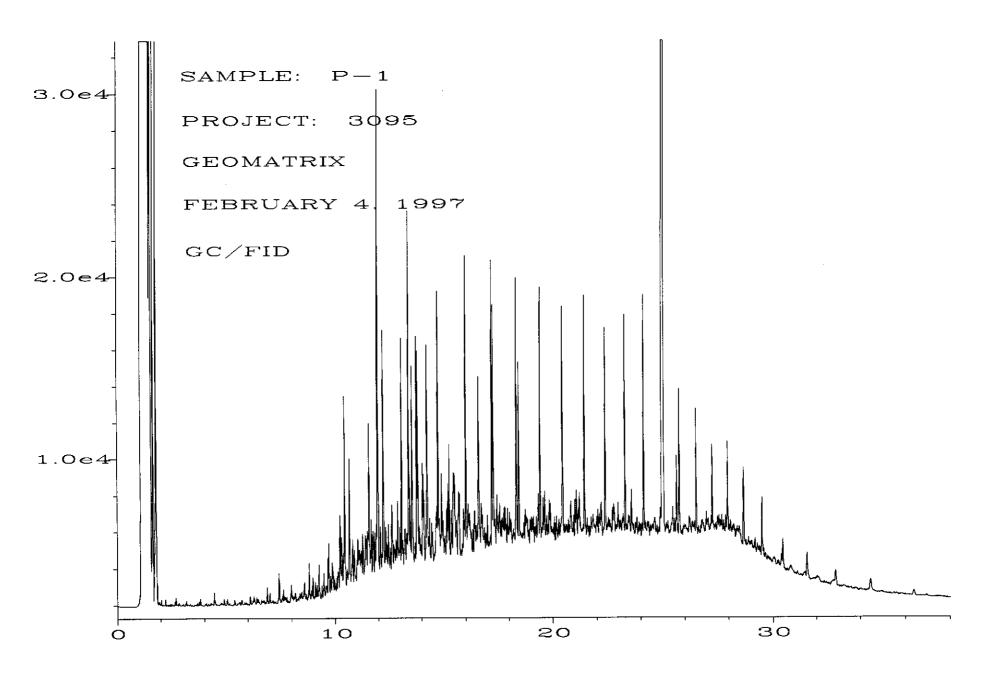
Laboratory Code: 75440 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Rèsult	% Recovery MS	% Recovery MSD	Acceptance Criteria	Relative Percent Difference
1,1-Dichloroethene	μg/g (ppm)	5,000	<100	92	93	65-135	1
Benzene	μg/g (ppm)	5,000	170	100	101	65-135	1
Trichloroethene	μg/g (ppm)	5,000	<100	105	108	65-135	3
Toluene	μg/g (ppm)	5,000	710	102	104	65-135	2
Chlorobenzene	μg/g (ppm)	5,000	<100	103	102	65-135	. 1

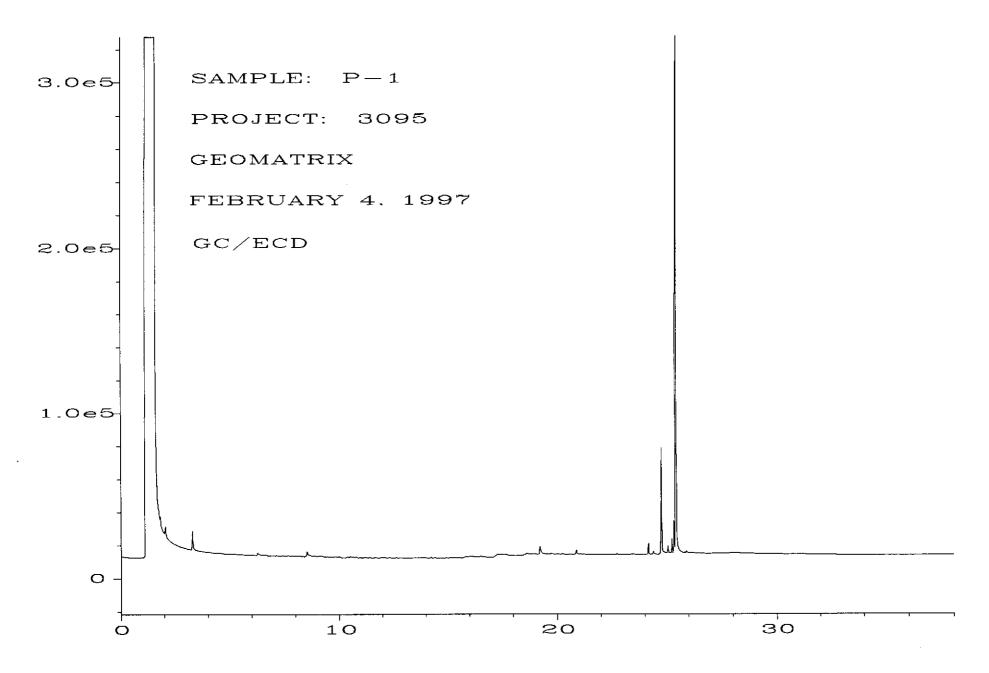
Laboratory Code: Spike Blank

Analyte	Reporting Units	Spike Level	% Recovery MS	% Recovery MSD	Acceptance Criteria	Relative Percent Difference
1,1-Dichloroethene	μg/g (ppm)	5,000	98	97	65-135	1
Benzene	μg/g (ppm)	5,000	99	101	65-135	2
Trichloroethene	μg/g (ppm)	5,000	107	108	65-135	1
Toluene	μg/g (ppm)	5,000	103	104	65-135	1
Chlorobenzene	μg/g (ppm)	5,000	103	105	65-135	2

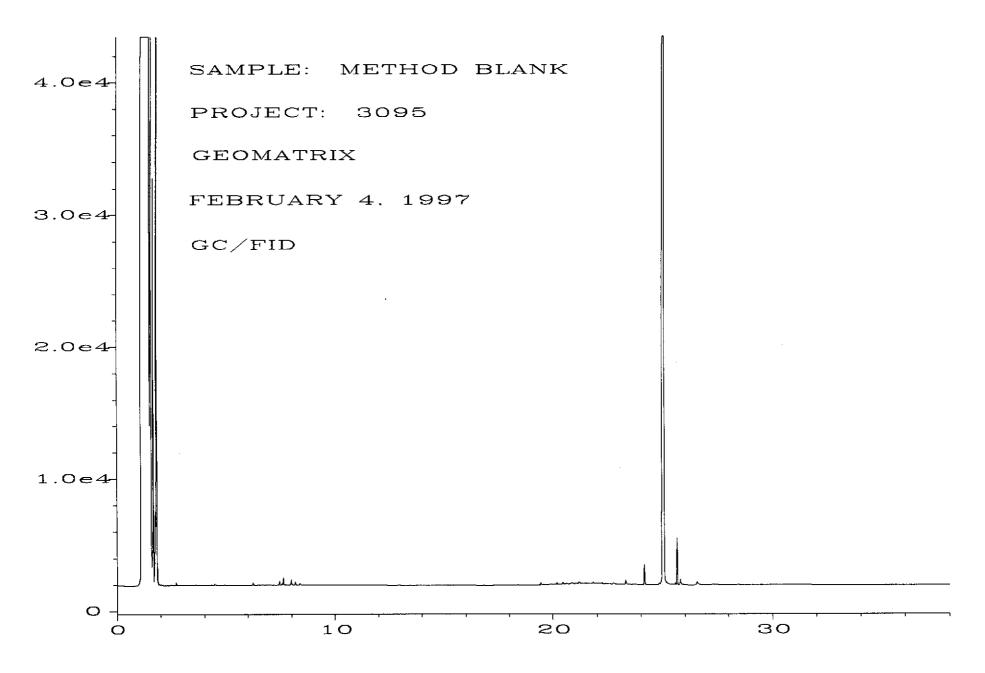
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.



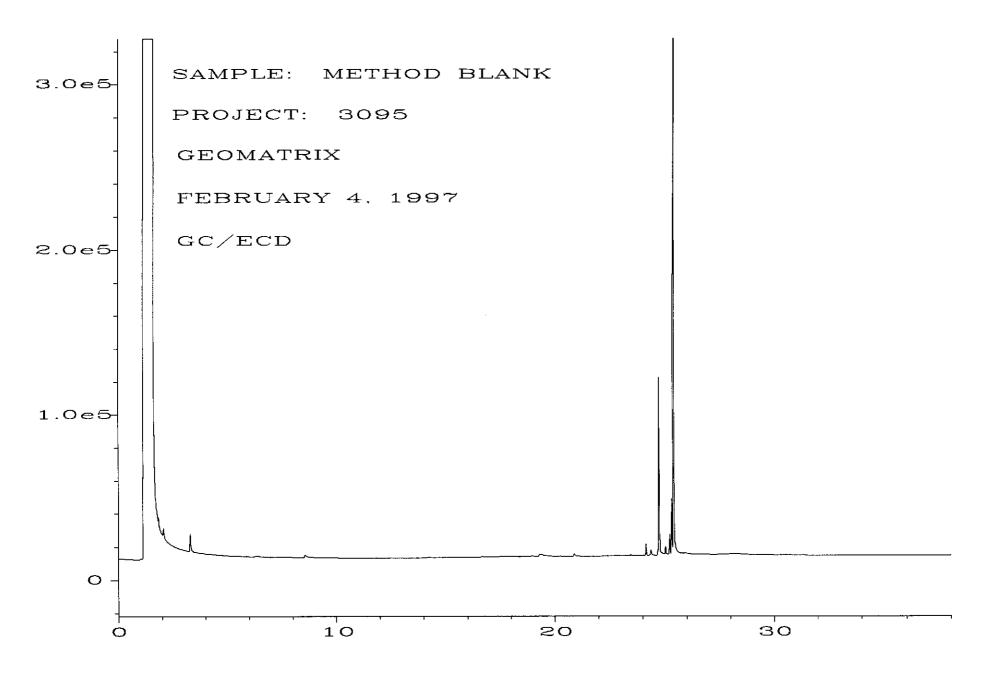
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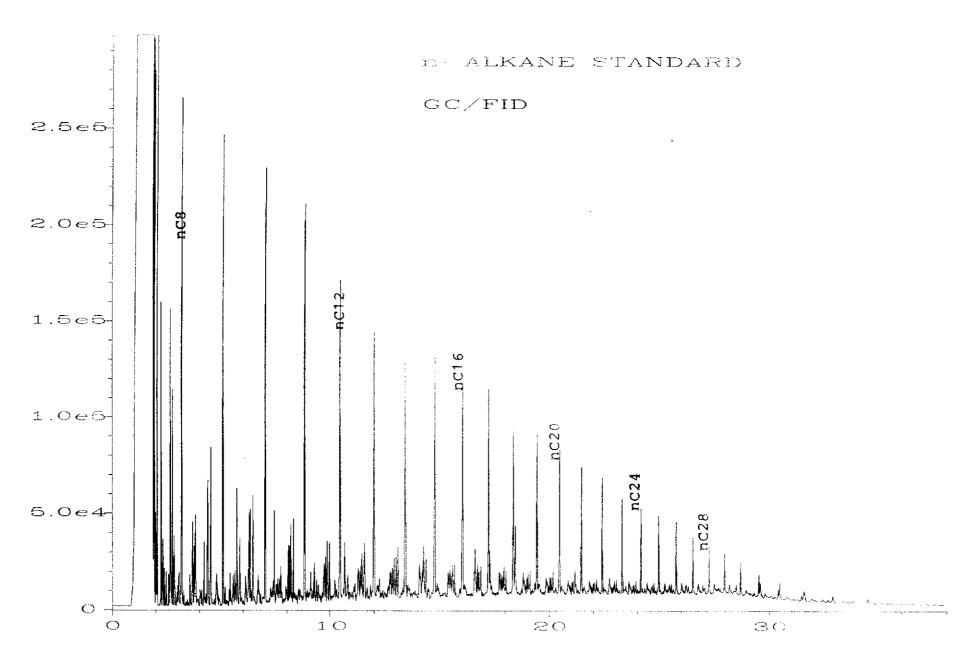
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Samples (Signatures): Date Time Sample Number 73/44 1535 P-1		EPA Method 6020	EPA Method 8240 EPA Method 8270	TPH as gastoline	TPH as diesel	TPH as BTEX		ANAI CLEO	YSES						pejooo		Acidified	Number of containers	Pole: All Voas 1009, product 48 May -636
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