H2OGEOL
A GROUNDWATER CONSULTANCY

Ms. Jennifer Eberle
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502-6577

April 21, 1997

RE: StID # 3920 - Report for limited Soil and Water Investigation
Cereske Electric Cable Co., 1688 - 24th Street, Oakland, CA.

Dear Ms. Eberle;

This letter reports the results of implementation of the February 12, 1997" workplan for a SWI (Soil and Water Investigation)" requested in letter of December 19, 1996, addressed to Ms. Bette Jean Cereske of Cereske Electric Cable Co. (CEC), 1688 - 24th Street, Oakland, CA.

As required two soil sample locations were included in the SWI and groundwater was sampled to the north of the former UST pit. Soil samples were collected for TPH-gasoline plus BTEX analysis at two locations (HA-1 and HA-2). A groundwater sample was collected from a third augerhole (HA-3) placed northerly of the former UST pit, adjacent to the building wall. The approximate locations of HA-1, HA-2, and HA-3 are shown on attached Figure 1.

The soil column was examined between ground surface and first encountered groundwater as documented in the attached borehole lithologic logs. The samples were collected, labeled, placed in an ice chest containing two liters of water frozen in a bottle. A chain of custody form was completed and the samples and chain of custody documentation was delivered to Chromalab, Inc. a State certified analytical laboratory located in Pleasanton, California.

Chromalab reported the following results (in mg/Kg (soil) or µg/L (water), as appropriate):

	TPH-G Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes
CEC/HA-1/3.6' (soil)	<39	<0.16	<0.16	<0.16	0.26
CEC/HA-2/4.3' (soil)	<1.0	<0.005	<0.005	<0.005	<0.005
CEC/HA-3/GW (water)	<5,000	<50	<50	<50	<50

97 APR 24 AM 10:59

ENVIRONMENTAL PROTECTION

P.O.Box 2165 • Livermore, California 94551 • 510-373-9211

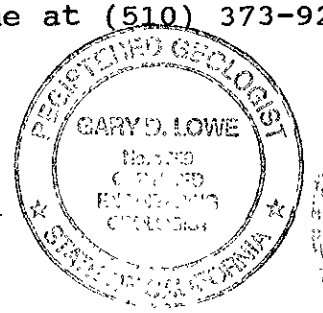
The Chromalab reports indicate for samples CEC/HA-1/3.6' (soil) and CEC/HA-3/GW (water) that "Reporting Limits Increased Due To Sample Interference."

As you have observed during the remedial excavation process at this site, many of the soils represented by the samples are accompanied by a moderate to strong "old" fuel odor. This was also the case with sample CEC/HA-1/3.6' (soil) as recorded on the borehole lithologic log. The sample interference that resulted in increased reporting limits, both in these samples and in previous samples, is frequently caused by the presence of biogenically derived low-molecular-weight organic acids and other organic compounds that are the end product of biodegradation. These compounds have similar gas chromatographic characteristics in that they are extracted from the sample and have similar column travel times to the range of undegraded compounds present in fuel products.

The presence of interfering compounds, to the extent that they render any residual concentrations of potential precursor fuel compounds undetectable, i.e., raise the reporting limit, indicates that passive bioremediation has been effective at this site.

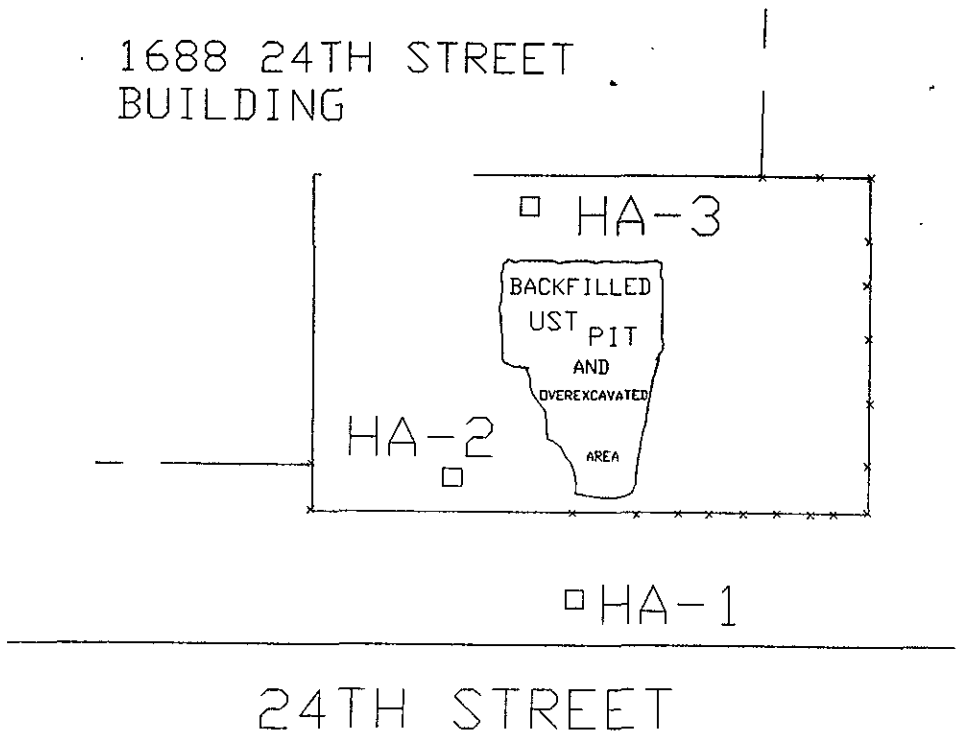
Please do not hesitate to call me at (510) 373-9211 should you have any questions.

Sincerely,



Gary D. Lowe,R.G.,C.E.G.,C.H.
Principal, Hydrogeologist

xc: Ms. Bette Jean (Buffy) Cereske of Cereske Electric Cable Co.



APPROXIMATELY
25 FEET
Site features approximately located.

H2OGEOL
A GROUND WATER CONSULTANCY

LOCATIONS OF HAND AUGERHOLES
IMPLEMENTATION OF SWI WORKPLAN
MARCH 26, 1997
CERESKE ELECTRIC CABLE CO., INC.
1688-24TH STREET, OAKLAND, CALIFORNIA

FIGURE
1

H2OGEOL
A GROUND WATER CONSULTANCY

BOREHOLE LITHOLOGIC LOG

BOREHOLE No. CEC/HA-1 Sheet 1 of 1

Project No.: Date: 03/26/97
Client: Cereske Electric Cable Co.
Location: 1688 24th - Street
Oakland, California
Logged by: GDL Driller: RCV/GDL

Sampling Tool Iwan Auger
Sampling Method - Hand Operation Hole Diameter 4-in
Ground Surface Elevation Unknown Datum: asphalt surface

Water Level				
Time				
Date				

Sampling Blowcounts	PID/FID HNu/OVA reading	Depth feet	Sample	Soil Sample Number	Graphic Soil Symbol	USCS Soil Symbol	Field Soil Description
				CEC/HA			0.55 Feet asphalt
		1				CL	Dark olive gray 5Y 3/2-3/3 stiff clay. Moderate hydrocarbon odor.
		2					Neat Cement Grout
		3				SC	Dark greenish gray 5GY 4/1 clayey sand, intermingled spheroids of dark olive green clay.
		4		-1/3.6'			3.55 Ft. strong degraded gasoline odor.
		5					First encountered water 3.65 Ft. ▽
		6					Toal Depth 3.7
		7					
		8					
		9					
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A GROUND WATER CONSULTANCY

BOREHOLE LITHOLOGIC LOG

BOREHOLE No. CEC/HA-2 Sheet 1 of 1

Project No.: Date: 03/26/97
Client: Cereske Electric Cable Co.
Location: 1688 24th - Street
Oakland, California
Logged by: GDL Driller: RCV/GDL

Sampling Tool Iwan Auger
Sampling Method - Hand Operation Hole Diameter 4-in
Ground Surface Elevation Unknown Datum: asphalt surface

Water Level				
Time				
Date				

Sampling Blowcounts	PID/FID HNu/OVA reading	Depth test	Sample	Soil Sample Number	Graphic Soil Symbol	USCS Soil Symbol	Field Soil Description
				CEC/HA			0.63 Feet asphalt
		1				CL	Dark olive gray 5Y 3/2-3/3 stiff silty clay. No odor. Neat Cement Grout
		2					Gray 5Y 5-6/1 to greenish gray 5GY 5/1 clayey sand. No odor.
		3				SC	2.2 Ft. shell fragments.
		4		-2/4.3'			Irregularly alternating sandy clay and clayey sand.
		5					Moderate degraded gasoline odor. First encountered water 4.5 Ft. ▽
							Toal Depth 4.76
		6					
		7					
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H2OGEOL
A GROUND WATER CONSULTANCY

BOREHOLE LITHOLOGIC LOG

BOREHOLE No. CEC/HA-3 Sheet 1 of 1

Project No.:	Date: 03/26/97
Client: Cereske Electric Cable Co.	
Location: 1688 24th - Street	
Oakland, California	
Logged by: GDL	Driller: RCV/GDL
Sampling Tool	Iwan Auger
Sampling Method - Hand Operation	Hole Diameter 4-in
Ground Surface Elevation Unknown	Datum: asphalt surface

Water Level				
Time				
Date				

Sampling Blowcounts	PID/FID HNu/OVA reading	Depth feet	Sample	Soil Sample Number	Graphic Soil Symbol	USCS Soil Symbol	Field Soil Description
				CEC/HA			0.15 Feet asphalt, 1x1 1/5 well rounded gravel baserock.
		1				SC	Dark yellowish brown 10YR 4/4 clayey gravell sand. No odor.
							Neat Cement Grout
		2					Yellowish brown 10 YR 5/4 plastic clay. No odor.
		3				CL	Yellowish brown 10 YR 5/4 mottled dark olive gray 5Y 3/3 plastic clay. No odor.
		4					Yellowish brown 10 YR 5/4 mottled greenish gray 5GY 5/1 gravelly clay.
							First encountered water 4.2 Ft. ▽
		5		-3/GW		SC	Dark grayish brown 2.5Y 4/2 clayey sand. No odor.
					Toal Depth 4.7	SW	Dark grayish brown 2.5Y 4/2 fine to medium sand. No odor.
		6					
		7					
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CHROMALAB, INC.

Environmental Services (SDB)

April 10, 1997 *Submission #:* 9703390

H2OGEOL

Atten: Gary Lowe

Project: CERESKE ELECTRIC CABLE
Received: March 27, 1997

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **CEC/HA-1-3.6'**
Spl#: 123125 *Matrix:* SOIL
Sampled: March 26, 1997 *Run#:* 6148 *Analyzed:* April 8, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	39	N.D.	81	120
BENZENE	N.D.	0.16	N.D.	94	120
TOLUENE	N.D.	0.16	N.D.	91	120
ETHYL BENZENE	N.D.	0.16	N.D.	90	120
XYLENES	0.26	0.16	N.D.	90	125

Note: Surrogate recovery was outside QA/QC limits due to sample interference. See Surrogate Summary page. Reporting Limits Increased Due To Sample Interference.

Kayvan Kimyai
Chemist

Marianne Alexander
Gas/BTEX Supervisor

510-373-9222

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

April 10, 1997 *Submission #:* 9703390

H2OGEOL

Atten: Gary Lowe

Project: CERESKE ELECTRIC CABLE
Received: March 27, 1997

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **CEC/HA-2-4.3'**
Spl#: 123126 *Matrix:* SOIL
Sampled: March 26, 1997 *Run#:* 6148 *Analyzed:* April 8, 1997

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	81	1
BENZENE	N.D.	0.0050	N.D.	94	1
TOLUENE	N.D.	0.0050	N.D.	91	1
ETHYL BENZENE	N.D.	0.0050	N.D.	90	1
XYLENES	N.D.	0.0050	N.D.	90	1

Kayvan Kimyai
Chemist

Marianne Alexander
Gas/BTEX Supervisor

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CHROMALAB, INC.

Environmental Services (SDB)

April 10, 1997 *Submission #:* 9703390

H2OGEOL

Atten: Gary Lowe

Project: CERESKE ELECTRIC CABLE
Received: March 27, 1997

re: One sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: **CEC/HA-3/GW**
Spl#: 123127 *Matrix:* WATER
Sampled: March 26, 1997 *Run#:* 6191 *Analyzed:* April 9, 1997

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	5000	N.D.	110	100
BENZENE	N.D.	50	N.D.	92	100
TOLUENE	N.D.	50	N.D.	89	100
ETHYL BENZENE	N.D.	50	N.D.	92	100
XYLENES	N.D.	50	N.D.	93	100

Note: Reporting Limit Increased Due To Sample Interferences.

Kayvan Kimyai
Chemist

Marianne Alexander
Gas/BTEX Supervisor

510-373-9222

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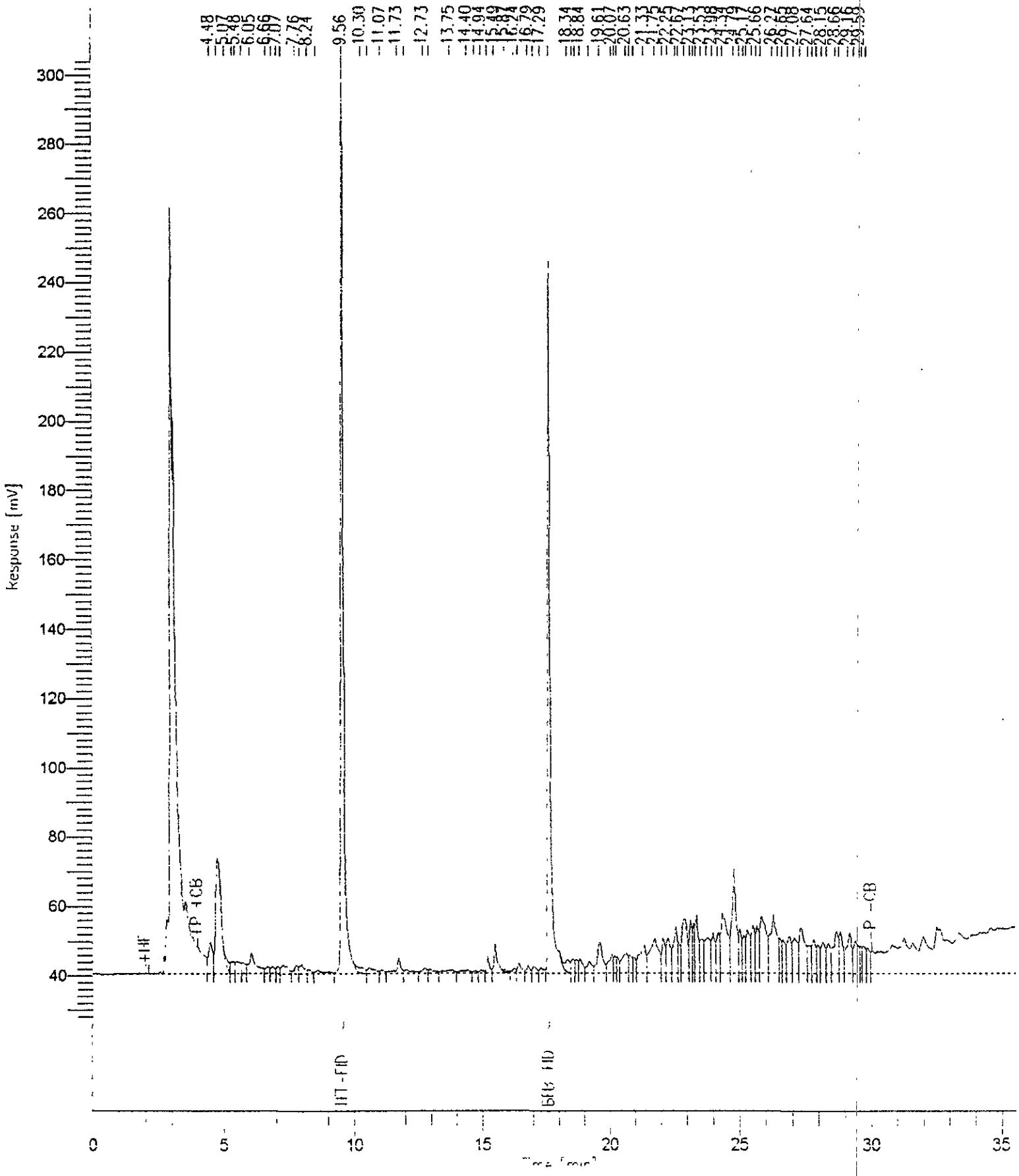
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

9703390
CEC/HA-3/GW

Gasoline Chromatogram

Sample Name : 9703390/CEC/HA-3/GW
FileName : F:\4G40822.raw
Method : 4PA17N
Start Time : 0.00 min End Time : 35.99 min
Scale Factor: 1.0 Plot Offset: 27 mV

Sample #: 123127 Page 1 of 1
Date : 4/9/97 02:24
Time of Injection: 4/9/97 01:47
Low Point : 27.18 mV High Point : 305.78 mV
Plot Scale: 278.6 mV

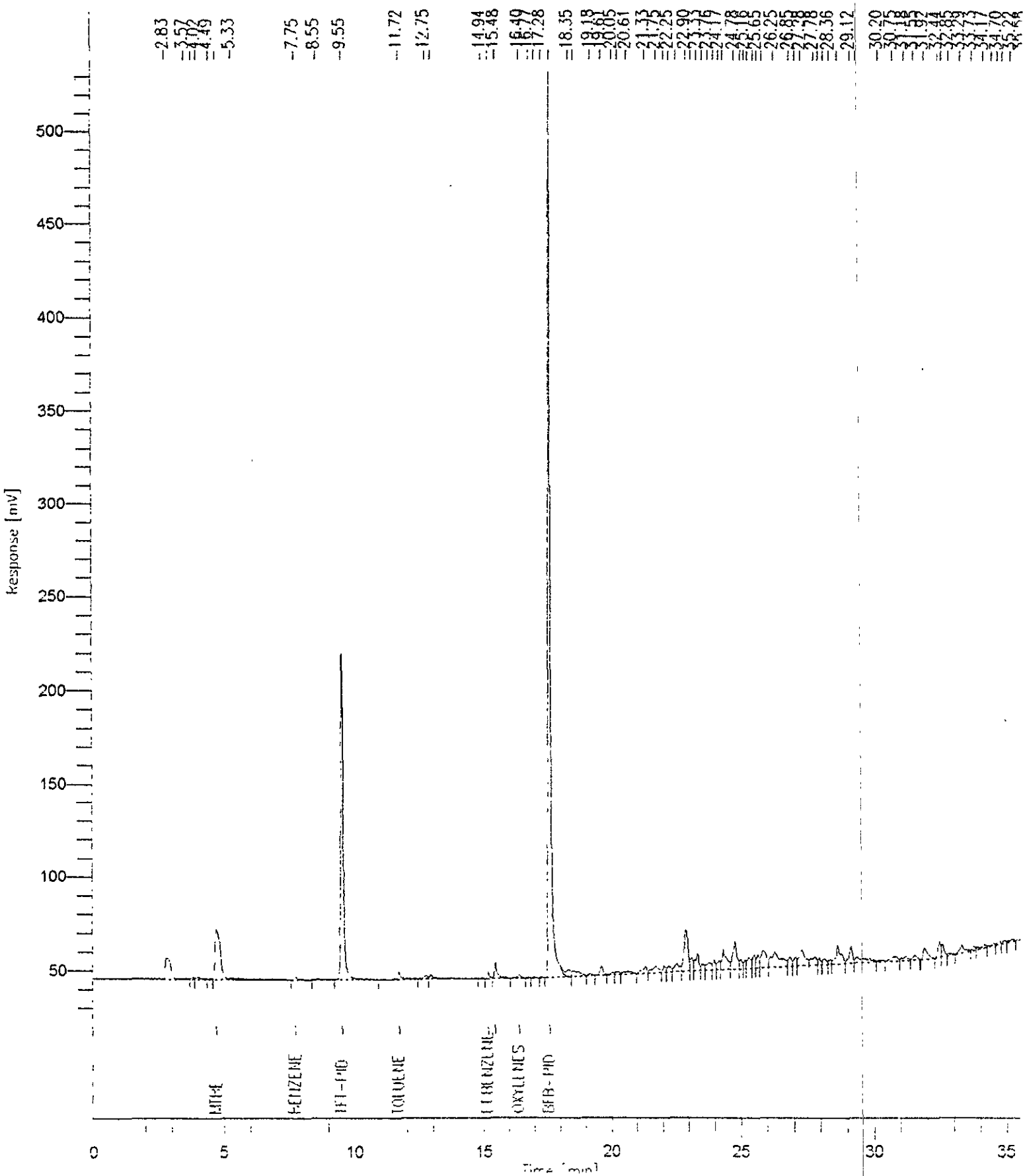


BTEX Chromatogram

9703390
CEC/HA-3/GW

Sample Name : 9703390/CEC/HA-3/GW
FileName : P:\4B40822.raw
Method : 4PA17N
Start Time : 0.00 min End Time : 35.99 min
Scale Factor: 1.0 Plot Offset: 20 mV

Sample #: 123127
Date : 4/9/97 02:24
Time of Injection: 4/9/97 01:47
Low Point : 20.40 mV High Point : 539.08 mV
Plot Scale: 518.7 mV



CHROMALAB, INC.

Environmental Services (SDB)

April 10, 1997 *Submission #:* 9703390

H2OGEOL

Atten: Gary Lowe

Project: CERESKE ELECTRIC CABLE
Received: March 27, 1997

re: **Surrogate** report for 2 samples for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod
Lab Run#: 6148
Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
123125-1	CEC/HA-1-3.6'	TRIFLUOROTOLUENE	78.6	65-135
123125-1	CEC/HA-1-3.6'	4-BROMOFLUOROBENZENE	2140	65-135
123125-2	CEC/HA-1-3.6'	TRIFLUOROTOLUENE	87.8	65-135
123125-2	CEC/HA-1-3.6'	4-BROMOFLUOROBENZENE	610	65-135
123126-1	CEC/HA-2-4.3'	TRIFLUOROTOLUENE	88.8	65-135
123126-1	CEC/HA-2-4.3'	4-BROMOFLUOROBENZENE	79.0	65-135

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
124845-1	*Reagent blank (MDB)*	TRIFLUOROTOLUENE	85.4	65-135
124845-1	*Reagent blank (MDB)*	4-BROMOFLUOROBENZENE	75.7	65-135
124846-1	*Spiked blank (BSP)*	TRIFLUOROTOLUENE	94.1	65-135
124846-1	*Spiked blank (BSP)*	4-BROMOFLUOROBENZENE	122	65-135
124847-1	*Spiked blank duplicate (BSD)*	TRIFLUOROTOLUENE	92.6	65-135
124847-1	*Spiked blank duplicate (BSD)*	4-BROMOFLUOROBENZENE	106	65-135
124848-1	*Matrix spike (MS)*	TRIFLUOROTOLUENE	75.9	65-135
124848-1	*Matrix spike (MS)*	4-BROMOFLUOROBENZENE	79.6	65-135
124849-1	*Matrix spike duplicate (MSD)*	TRIFLUOROTOLUENE	73.1	65-135
124849-1	*Matrix spike duplicate (MSD)*	4-BROMOFLUOROBENZENE	71.5	65-135

V132
QCSURR1229 KAYVAN 10-Apr-97 10

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

April 10, 1997 *Submission #:* 9703390

H2OGEOL

Atten: Gary Lowe

Project: CERESKE ELECTRIC CABLE
Received: March 27, 1997

re: **Surrogate** report for 1 sample for Gasoline BTEX analysis.
Method: SW846 8020A Nov 1990 / 8015Mod
Lab Run#: 6191
Matrix: WATER

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
123127-1	CEC/HA-3/GW	TRIFLUOROTOLUENE	88.9	65-135
123127-1	CEC/HA-3/GW	4-BROMOFLUOROBENZENE	93.1	65-135

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
125269-1	*Reagent blank (MDB)*	TRIFLUOROTOLUENE	104	65-135
125269-1	*Reagent blank (MDB)*	4-BROMOFLUOROBENZENE	87.7	65-135
125270-1	*Spiked blank (BSP)*	TRIFLUOROTOLUENE	80.5	65-135
125270-1	*Spiked blank (BSP)*	4-BROMOFLUOROBENZENE	133	65-135
125271-1	*Spiked blank duplicate (BSD)*	TRIFLUOROTOLUENE	107	65-135
125271-1	*Spiked blank duplicate (BSD)*	4-BROMOFLUOROBENZENE	132	65-135
125274-1	*Matrix spike (MS)*	TRIFLUOROTOLUENE	112	65-135
125274-1	*Matrix spike (MS)*	4-BROMOFLUOROBENZENE	98.1	65-135
125276-1	*Matrix spike duplicate (MSD)*	TRIFLUOROTOLUENE	106	65-135
125276-1	*Matrix spike duplicate (MSD)*	4-BROMOFLUOROBENZENE	96.8	65-135

V132
QCSURR1229 KAYVAN 10-Apr-97 10

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

03390/123125-123127

32761

CHAIN OF CUSTODY

H_2OGEOL *A GROUNDWATER CONSULTANCY*

P.O. BOX 2165
LIVERMORE, CALIFORNIA 94551-2165

DATE: 03/27/97 PAGE 1 of 1

Sample Source:
Cereske Electric Cable Co., Inc.
1688 - 24th Street
Oakland, California

SAMPLER(S): Gary D. Lowe

SAMPLER'S SIGNATURE: [signature]

SAMPLE RECIEPT:

TOTAL No. of CONTAINERS _____
CHAIN OF CUSTODY SEALS _____
REC'D GOOD CONDITION/COLD _____
CONFORMS TO RECORD _____
LAB NO.

SAMPLE ID.	DATE	TIME	MATRIX	LAB ID.	ANALYTE: Total Petroleum Hydrocarbons as Gasoline + BTEX 3550/8015 & 80	NUMBER OF CONTAINERS
CEC/HA-1/3.6'	03/26/97	09:50	soil		X	1
CEC/HA-2/4.3''	03/26/97	10:50	soil		X	1
CEC/HA-3/GW	03/26/97	11:55	water		X	1

SUBM #: 9703390 REP: GC
CLIENT: H2OGEOL
DUE: 04/10/97
REF #:32761

Please note special pricing
per Gary Cook.
10-Day TAT

RELINQUISHED BY:
SIGNATURE [signature] TIME
PRINTED NAME Gary D. Lowe 0605 DATE
COMPANY H_2OGEOL 03/27/97

RECEIVED BY:
SIGNATURE TIME
PRINTED NAME DATE
COMPANY

RELINQUISHED BY:
SIGNATURE TIME
PRINTED NAME DATE
COMPANY

RECEIVED BY LABORATORY:
SIGNATURE Chris Rowley 0605 TIME
PRINTED NAME Chris Rowley 3/27/97 DATE
COMPANY Chromalab, Inc. 03/27/97