



ENVIRONMENTAL  
PROTECTION  
96 MAY 23 PM 2:28

Mrs. Jean Ratto Larkin  
Mr. Jeff Larkin  
778 Augusta Drive  
Moraga, California 94556

September 29, 1995

RE: Preparation of Soil Piles for Loading and Results of Soil  
Sampling - 1628 Webster Street, Alameda, California.

Dear Mr. and Mrs. Larkin;

The pre-1995 soil piles left at 1628 Webster Street in Alameda following the work performed by Exceltech were re-excavated and piled in preparation for loading between September 06 and 08, 1995 by DECON Environmental Services, Inc. of Hayward, California. Concrete rubble, the remaining tank and other scrap steel, and general trash were piled separately.

As of September 12, 1995, three soil piles were present at the property with their long dimension parallel to Pacific Avenue. Both larger piles (North Pile and Middle Pile, Figure 1) consisted of soil largely free of odors. These two piles total approximately 1500 +/- cubic yards. The third soil pile (South Pile) consists of approximately 300 cubic yards of notably odoriferous soil with a typical gleyed coloration (various shades of gray-green).

Twenty samples were collected from the three soil piles on September 12, 1995. These were positioned so as to represent the soil in the newly placed soil piles and were numbered in the manner in which the laboratory was to prepare their composites for analysis. Figure 1 shows the approximate soil subsample locations.

The analytical results are attached.

TPH-Gasoline + BTEX {Purgeable aromatics}(EPA 5030/8015M+8020) was found to be not detected in all five composite soil samples. However, an unknown profile of chromatogram peaks was found in the composite from the 300 Yd<sup>3</sup> odoriferous soil pile (South Pile) equivalent to 5.3 mg/Kg TPH-Gasoline and probably represents biodegradation altered gasoline.

TPH-Diesel (EPA 3550.8015M) was not detectable in any of the five composite soil samples, however, unknown hydrocarbons in the diesel range amounting to 8.0 mg/Kg were reported in the composite from the 300 Yd<sup>3</sup> odoriferous soil pile (South Pile).

Mr. and Mrs. Larkin  
September 29, 1995  
Page 2

TPH-Oil (EPA 3550.8015M) was found in all five composite soil samples, as reported in the laboratory report cover letter. It was later quantified by the laboratory as follows:

North Half North Pile (Sample 1)	260 mg/Kg
South Half North Pile (Sample 2)	16 mg/Kg
North Half Middle Pile (Sample 3)	230 mg/Kg
South Half Middle Pile (Sample 4)	130 mg/Kg
South Pile (Sample 5)	180 mg/Kg

Purgeable halocarbons (EPA 8010) were not detected in any of the five composite soil samples.

Base/neutral & acid extractables (Semivolatile Organic Compounds) (EPA 8270) were not detected in the composite soil samples from the two soil piles largely free of odors. One EPA 8270 compound was found in the 300 Yd<sup>3</sup> odoriferous soil pile (South Pile). The identified compound was Bis(2-ethylhexyl) Phthalate, a common plasticizer, at a concentration of 0.7 mg/Kg against a detection limit of 0.5 mg/Kg. This level should not be a cause of concern.

Total Recoverable Petroleum Hydrocarbons (TRPH) (EPA 418.1) were found in all five composite soil samples.

North Half North Pile (Sample 1)	110 mg/Kg
South Half North Pile (Sample 2)	86 mg/Kg
North Half Middle Pile (Sample 3)	510 mg/Kg
South Half Middle Pile (Sample 4)	110 mg/Kg
South Pile (Sample 5)	170 mg/Kg

TTLIC Metals - Cd, Cr, Pb, Ni, Zn

Cadmium (Cd) was not detected from any of the composite soil samples.

Chromium (Cr), Lead (Pb), Nickel (Ni), and Zinc (Zn) were detected and were reported, in units of mg/Kg, as follows:

	Chromium	Lead	Nickel	Zinc
Sample 1	24	18	32	38
Sample 2	28	20	36	48
Sample 3	31	31	34	50
Sample 4	25	22	35	36
Sample 5	31	22	32	32

Mr. and Mrs. Larkin  
September 29, 1995  
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The presence of Motor Oil and TRPH in all five soil samples and the presence of lead above 5.0 mg/Kg precludes the use of this soil as construction fill. These two analytes and the reported concentrations of chromium and nickel indicated that all of the soil stockpiled at 1628 Webster Street in Alameda will have to be handled as a regulated soil.

Quotations for shipping and disposing of this soil have been solicited and will be forwarded as soon as all three are available.

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: Mr. Robert F. Campbell; Fitzgerald, Abbott & Beardsley  
Mr. Tom Hargett; Texaco Environmental Services  
Mr. Jeff Smith; Phillips Petroleum Company



SCALE: 1" = 50'

x SOIL PILE SUB-SAMPLE LOCATION

4D SOIL SUB-SAMPLE NUMBER

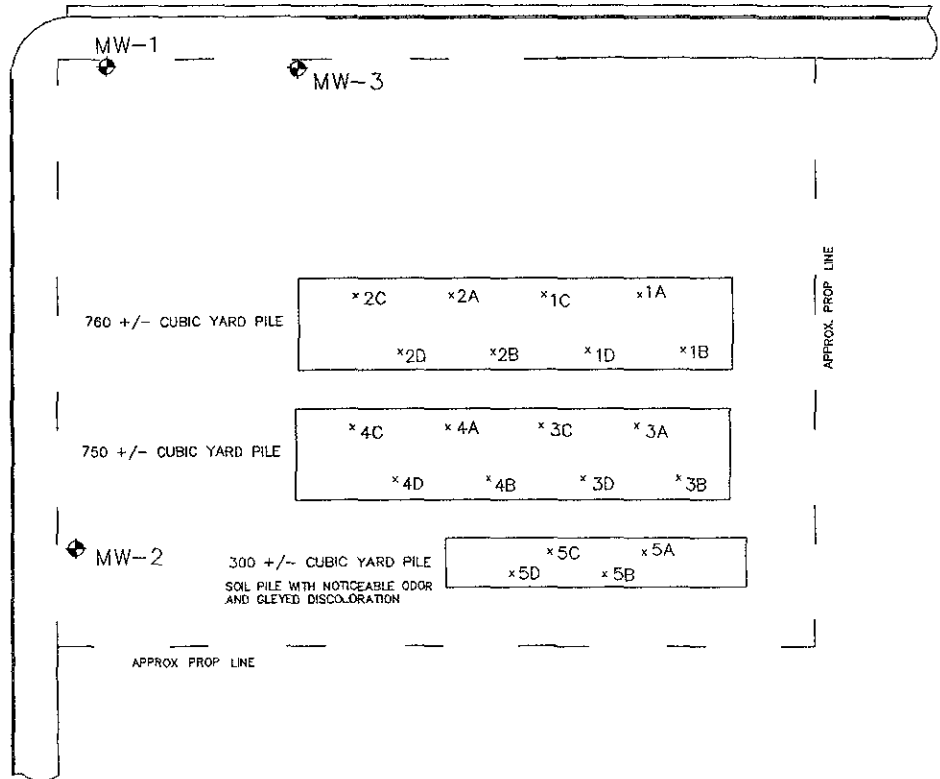
(All sub-sample numbers are 9125-(indicated sub-sample number)

PACIFIC

AVENUE

STREET

WEBSTER



**SOIL PILE SAMPLE LOCATION MAP**  
**SEPTEMBER 12, 1995**  
**1628 WEBSTER STREET**  
**ALAMEDA, CALIFORNIA**

**FIGURE**  
**1**

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

H2O GEOL

Submission #: 9509110

Atten: Gary D. Lowe

Project: Not provided

## REPORTING INFORMATION

Sample(s) were received cold and in good condition on **September 12, 1995**. They were refrigerated on receipt, and analyzed on the date shown on the attached report. ChromaLab followed EPA or equivalent methods for all analyses reported.

Motor Oil was also found in all the samples.



Bill Thomas  
Quality Assurance Manager



Eric Tam  
Laboratory Director

kv

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: 5 samples for Gasoline and BTEX analysis.  
Method: EPA 5030/8015M/8020

Sampled: September 12, 1995 Matrix: SOIL Run: 8607-2 Analyzed: September 26, 1995

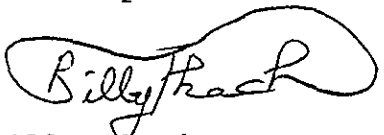
Sp1 #	Sample ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
102312	9125-4A,B,C,D	N.D.	N.D.	N.D.	N.D.	N.D.
102313	9125-5A,B,C,D	N.D.	N.D.	N.D.	N.D.	N.D.

For above sample: An unknown profile of peaks was found in the gasoline range. If quantify against gasoline standard, concentration is 5.3mg/kg.

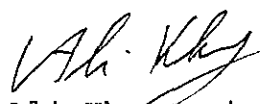
Sampled: September 12, 1995 Matrix: SOIL Run: 8611-4 Analyzed: September 25, 1995

Sp1 #	Sample ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
102309	9125-1A,B,C,D	N.D.	N.D.	N.D.	N.D.	N.D.
102310	9125-2A,B,C,D	N.D.	N.D.	N.D.	N.D.	N.D.
102311	9125-3A,B,C,D	N.D.	N.D.	N.D.	N.D.	N.D.

Reporting Limits	1.0	5.0	5.0	5.0	5.0
Blank Result	N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)	93	101	102	104	104



Billy Thach  
Chemist



Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 20, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

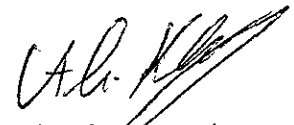
Project: Not provided  
Received: September 12, 1995

re: 5 samples for Diesel analysis.  
Method: EPA 3550/8015M

Sampled: September 12, 1995 Matrix: SOIL Extracted: September 14, 1995  
Run: 8441-K Analyzed: September 14, 1995

<u>Spl #</u>	<u>Sample ID</u>	<u>DIESEL</u> <u>(mg/Kg)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>RESULT</u> <u>(mg/Kg)</u>	<u>BLANK SPIKE</u> <u>RESULT</u> <u>(%)</u>
102309	9125-1A,B,C,D For above sample:	N.D. REPORTING LIMIT RAISED 5X DUE TO MATRIX INTERFERENCE.	5.0	N.D.	84
102310	9125-2A,B,C,D	N.D.	1.0	N.D.	84
102311	9125-3A,B,C,D	N.D.	1.0	N.D.	84
102312	9125-4A,B,C,D For above sample:	N.D. REPORTING LIMIT RAISED 5X DUE TO MATRIX INTERFERENCE.	5.0	N.D.	84
102313	9125-5A,B,C,D For above sample:	N.D. Unknown hydrocarbons in the Diesel range, conc. = 8.0mg/Kg.	1.0	N.D.	84

  
Kayvan Kimyai  
Chemist

  
Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 27, 1995

Submission #: 9509110

Revised from 9/15/95

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: 5 samples for Diesel analysis.  
Method: EPA 3550/8015M

Sampled: September 12, 1995 Matrix: SOIL Extracted: September 14, 1995  
Run: 8441-K Analyzed: September 14, 1995

Spl #	Sample ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
102309	9125-1A,B,C,D For above sample:	N.D. Motor Oil was also found,	5.0 conc. = 260mg/Kg.	N.D.	84
102310	9125-2A,B,C,D For above sample:	N.D. Motor Oil was also found,	1.0 conc. = 16mg/Kg.	N.D.	84
102311	9125-3A,B,C,D For above sample:	N.D. Motor Oil was also found,	1.0 conc. = 230mg/Kg.	N.D.	84
102312	9125-4A,B,C,D For above sample:	N.D. Motor Oil was also found,	5.0 conc. = 130mg/Kg.	N.D.	84
102313	9125-5A,B,C,D For above sample:	N.D. Unknown hydrocarbons in Motor Oil was also found,	1.0 the Diesel range, conc. = 8.0mg/Kg. conc. = 180mg/Kg.	N.D.	84

  
Kayvan Kimyai  
Chemist

Ali Kharrazi  
Organic Manager

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



# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: One sample for Volatile Halogenated Organics analysis.  
Method: EPA 8010/8260

SampleID: 9125-1A,B,C,D

Sample #: 102309

Matrix: SOIL

Sampled: September 12, 1995

Run: 8613-0

Analyzed: September 22, 1995

Analyte	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	82
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	99
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	105
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Oleg Nemtsov  
Chemist

Ali Khazrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: One sample for Volatile Halogenated Organics analysis.  
Method: EPA 8010/8260

SampleID: 9125-2A,B,C,D

Sample #: 102310

Matrix: SOIL

Sampled: September 12, 1995

Run: 8613-0

Analyzed: September 22, 1995

Analyte	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	82
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	99
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	105
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

*Oleg Nemtsov*

Oleg Nemtsov  
Chemist

*Ali Kharrazi*

Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: One sample for Volatile Halogenated Organics analysis.  
Method: EPA 8010/8260

SampleID: 9125-3A,B,C,D

Sample #: 102311

Matrix: SOIL

Sampled: September 12, 1995

Run: 8613-0

Analyzed: September 22, 1995

Analyte	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	82
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	99
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	105
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

*Oleg Nemtsov*

Oleg Nemtsov  
Chemist

*Ali Kharrazi*

Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: One sample for Volatile Halogenated Organics analysis.  
Method: EPA 8010/8260

SampleID: 9125-4A,B,C,D

Sample #: 102312

Matrix: SOIL

Sampled: September 12, 1995

Run: 8613-0

Analyzed: September 22, 1995

Analyte	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	82
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	99
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	105
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--



Oleg Nemtsov  
Chemist



Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: One sample for Volatile Halogenated Organics analysis.  
Method: EPA 8010/8260

SampleID: 9125-5A,B,C,D

Sample #: 102313

Matrix: SOIL

Sampled: September 12, 1995

Run: 8613-0

Analyzed: September 22, 1995

Analyte	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
CHLOROMETHANE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	82
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	99
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	5.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	105
BROMOFORM	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--

Oleg Nemtsov  
Chemist

Ali Khazrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.  
Method: EPA 3550/8270

SampleID: 9125-1A,B,C,D

Sample #: 102309

Matrix: SOIL

Extracted: September 15, 1995

Sampled: September 12, 1995

Run: 8544-A

Analyzed: September 17, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	0.5	N.D.	--
BIS(2-CHLOROETHYL) ETHER	N.D.	0.5	N.D.	--
2-CHLOROPHENOL	N.D.	0.5	N.D.	78
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
BENZYL ALCOHOL	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
2-METHYLPHENOL	N.D.	0.5	N.D.	--
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	0.5	N.D.	--
4-METHYLPHENOL	N.D.	0.5	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.5	N.D.	80
HEXACHLOROETHANE	N.D.	0.5	N.D.	--
NITROBENZENE	N.D.	0.5	N.D.	--
ISOPHORONE	N.D.	0.5	N.D.	--
2-NITROPHENOL	N.D.	0.5	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.5	N.D.	--
BIS(2-CHLOROETHOXY) METHANE	N.D.	0.5	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.5	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.5	N.D.	67
NAPHTHALENE	N.D.	0.5	N.D.	--
4-CHLOROANILINE	N.D.	0.5	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.5	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	1.0	N.D.	83
2-METHYLNAPHTHALENE	N.D.	0.5	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.5	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.5	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.5	N.D.	--
2-CHLORONAPHTHALENE	N.D.	0.5	N.D.	--
2-NITROANILINE	N.D.	0.5	N.D.	--
DIMETHYL PHTHALATE	N.D.	0.5	N.D.	--
ACENAPHTHYLENE	N.D.	0.5	N.D.	--
3-NITROANILINE	N.D.	0.5	N.D.	--
ACENAPHTHENE	N.D.	0.5	N.D.	73
2,4-DINITROPHENOL	N.D.	2.5	N.D.	--
4-NITROPHENOL	N.D.	0.5	N.D.	--
DIBENZOFURAN	N.D.	0.5	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.5	N.D.	--
2,6-DINITROTOLUENE	N.D.	0.5	N.D.	--
DIETHYL PHTHALATE	N.D.	0.5	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.5	N.D.	--

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Federal ID #68-0140157

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

page 2

H2O GEOL

Atten: Gary D. Lowe  
Project: Not provided  
Received: September 12, 1995  
re: One sample for Semivolatle Organic Compounds (B/NAs) analysis,  
continued.

Method: EPA 3550/8270  
SampleID: 9125-1A,B,C,D

Sample #: 102309

Matrix: SOIL

Extracted: September 15, 1995


Sampled: September 12, 1995


Run: 8544-A

Analyzed: September 17, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
FLUORENE	N.D.	0.5	N.D.	--
4-NITROANILINE	N.D.	0.5	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.5	N.D.	--
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.5	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.5	N.D.	--
HEXACHLOROBENZENE	N.D.	0.5	N.D.	--
PENTACHLOROPHENOL	N.D.	2.5	N.D.	48
PHENATHRENE	N.D.	0.5	N.D.	--
ANTHRACENE	N.D.	0.5	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	0.5	N.D.	--
FLUORANTHENE	N.D.	0.5	N.D.	--
PYRENE	N.D.	0.5	N.D.	88
BUTYL BENZYL PHTHALATE	N.D.	0.5	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	1.0	N.D.	--
BENZO (A) ANTHRACENE	N.D.	0.5	N.D.	--
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.5	N.D.	--
CHRYSENE	N.D.	0.5	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	0.5	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.5	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.5	N.D.	--
BENZO (A) PYRENE	N.D.	0.5	N.D.	--
INDENO (1,2,3 C,D) PYRENE	N.D.	0.5	N.D.	--
DIBENZ (A,H) ANTHRACENE	N.D.	0.5	N.D.	--
BENZ (G,H,I) PERYLENE	N.D.	0.5	N.D.	--

For above sample: REPORTING LIMITS RAISED BY 10X DUE TO MATRIX INTERFERENCE

  
Alex Tam  
Chemist

  
Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.  
Method: EPA 3550/8270

SampleID: 9125-2A,B,C,D

Sample #: 102310

Matrix: SOIL

Extracted: September 15, 1995

Sampled: September 12, 1995

Run: 8544-A

Analyzed: September 17, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
PHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROETHYL) ETHER	N.D.	0.5	N.D.	--
2-CHLOROPHENOL	N.D.	0.5	N.D.	78
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
BENZYL ALCOHOL	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
2-METHYLPHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.5	N.D.	--
4-METHYLPHENOL	N.D.	0.5	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.5	N.D.	80
HEXACHLOROETHANE	N.D.	0.5	N.D.	--
NITROBENZENE	N.D.	0.5	N.D.	--
ISOPHORONE	N.D.	0.5	N.D.	--
2-NITROPHENOL	N.D.	0.5	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.5	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.5	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.5	N.D.	67
NAPHTHALENE	N.D.	0.5	N.D.	--
4-CHLOROANILINE	N.D.	0.5	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.5	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	1.0	N.D.	83
2-METHYLNAPHTHALENE	N.D.	0.5	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.5	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.5	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.5	N.D.	--
2-CHLORONAPHTHALENE	N.D.	0.5	N.D.	--
2-NITROANILINE	N.D.	0.5	N.D.	--
DIMETHYL PHTHALATE	N.D.	0.5	N.D.	--
ACENAPHTHYLENE	N.D.	0.5	N.D.	--
3-NITROANILINE	N.D.	0.5	N.D.	--
ACENAPHTHENE	N.D.	0.5	N.D.	73
2,4-DINITROPHENOL	N.D.	2.5	N.D.	--
4-NITROPHENOL	N.D.	0.5	N.D.	--
DIBENZOFURAN	N.D.	0.5	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.5	N.D.	--
2,6-DINITROTOLUENE	N.D.	0.5	N.D.	--
DIETHYL PHTHALATE	N.D.	0.5	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.5	N.D.	--

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Federal ID #68-0140157



# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110  
page 2

H2O GEOL

Atten: Gary D. Lowe  
Project: Not provided  
Received: September 12, 1995  
re: One sample for Semivolatile Organic Compounds (B/NAs) analysis,  
continued.

Method: EPA 3550/8270  
SampleID: 9125-2A,B,C,D

Sample #: 102310

Matrix: SOIL

Extracted: September 15, 1995


Sampled: September 12, 1995


Run: 8544-A

Analyzed: September 17, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
FLUORENE	N.D.	0.5	N.D.	--
4-NITROANILINE	N.D.	0.5	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.5	N.D.	--
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.5	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.5	N.D.	--
HEXACHLOROBENZENE	N.D.	0.5	N.D.	--
PENTACHLOROPHENOL	N.D.	2.5	N.D.	48
PHENATHRENE	N.D.	0.5	N.D.	--
ANTHRACENE	N.D.	0.5	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	0.5	N.D.	--
FLUORANTHENE	N.D.	0.5	N.D.	--
PYRENE	N.D.	0.5	N.D.	88
BUTYL BENZYL PHTHALATE	N.D.	0.5	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	1.0	N.D.	--
BENZO (A) ANTHRACENE	N.D.	0.5	N.D.	--
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.5	N.D.	--
CHRYSENE	N.D.	0.5	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	0.5	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.5	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.5	N.D.	--
BENZO (A) PYRENE	N.D.	0.5	N.D.	--
INDENO (1,2,3 C,D) PYRENE	N.D.	0.5	N.D.	--
DIBENZ (A,H) ANTHRACENE	N.D.	0.5	N.D.	--
BENZ (G,H,I) PERYLENE	N.D.	0.5	N.D.	--

For above sample: REPORTING LIMITS RAISED BY 10X DUE TO MATRIX INTERFERENCE

  
Alex Tam  
Chemist

  
Ali Khazrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.  
Method: EPA 3550/8270

SampleID: 9125-3A,B,C,D

Sample #: 102311

Matrix: SOIL

Extracted: September 15, 1995

Sampled: September 12, 1995

Run: 8544-A

Analyzed: September 17, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROETHYL) ETHER	N.D.	0.5	N.D.	--
2-CHLOROPHENOL	N.D.	0.5	N.D.	78
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
BENZYL ALCOHOL	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
2-METHYLPHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.5	N.D.	--
4-METHYLPHENOL	N.D.	0.5	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.5	N.D.	80
HEXACHLOROETHANE	N.D.	0.5	N.D.	--
NITROBENZENE	N.D.	0.5	N.D.	--
ISOPHORONE	N.D.	0.5	N.D.	--
2-NITROPHENOL	N.D.	0.5	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.5	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.5	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.5	N.D.	67
NAPHTHALENE	N.D.	0.5	N.D.	--
4-CHLOROANILINE	N.D.	0.5	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.5	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	1.0	N.D.	83
2-METHYLNAPHTHALENE	N.D.	0.5	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.5	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.5	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.5	N.D.	--
2-CHLORONAPHTHALENE	N.D.	0.5	N.D.	--
2-NITROANILINE	N.D.	0.5	N.D.	--
DIMETHYL PHTHALATE	N.D.	0.5	N.D.	--
ACENAPHTHYLENE	N.D.	0.5	N.D.	--
3-NITROANILINE	N.D.	0.5	N.D.	--
ACENAPHTHENE	N.D.	0.5	N.D.	73
2,4-DINITROPHENOL	N.D.	2.5	N.D.	--
4-NITROPHENOL	N.D.	0.5	N.D.	--
DIBENZOFURAN	N.D.	0.5	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.5	N.D.	--
2,6-DINITROTOLUENE	N.D.	0.5	N.D.	--
DIETHYL PHTHALATE	N.D.	0.5	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.5	N.D.	--

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# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

page 2

H2O GEOL

Atten: Gary D. Lowe  
Project: Not provided  
Received: September 12, 1995  
re: One sample for Semivolatle Organic Compounds (B/NAs) analysis,  
continued.

Method: EPA 3550/8270  
SampleID: 9125-3A,B,C,D

Sample #: 102311

Matrix: SOIL

Extracted: September 15, 1995

Sampled: September 12, 1995

Run: 8544-A

Analyzed: September 17, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
		(mg/Kg)	(mg/Kg)	(%)
FLUORENE	N.D.	0.5	N.D.	--
4-NITROANILINE	N.D.	0.5	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.5	N.D.	--
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.5	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.5	N.D.	--
HEXACHLOROBENZENE	N.D.	0.5	N.D.	--
PENTACHLOROPHENOL	N.D.	2.5	N.D.	48
PHENATHRENE	N.D.	0.5	N.D.	--
ANTHRACENE	N.D.	0.5	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	0.5	N.D.	--
FLUORANTHENE	N.D.	0.5	N.D.	--
PYRENE	N.D.	0.5	N.D.	88
BUTYL BENZYL PHTHALATE	N.D.	0.5	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	1.0	N.D.	--
BENZO (A) ANTHRACENE	N.D.	0.5	N.D.	--
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.5	N.D.	--
CHRYSENE	N.D.	0.5	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	0.5	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.5	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.5	N.D.	--
BENZO (A) PYRENE	N.D.	0.5	N.D.	--
INDENO (1,2,3 C,D) PYRENE	N.D.	0.5	N.D.	--
DIBENZ (A,H) ANTHRACENE	N.D.	0.5	N.D.	--
BENZ (G,H,I) PERYLENE	N.D.	0.5	N.D.	--

For above sample: REPORTING LIMITS RAISED BY 10X DUE TO MATRIX INTERFERENCE

  
Alex Tam  
Chemist

  
Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: One sample for Semivolatle Organic Compounds (B/NAs) analysis.  
Method: EPA 3550/8270

SampleID: 9125-4A,B,C,D

Sample #: 102312

Matrix: SOIL

Extracted: September 15, 1995

Sampled: September 12, 1995

Run: 8544-A

Analyzed: September 17, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROETHYL) ETHER	N.D.	0.5	N.D.	--
2-CHLOROPHENOL	N.D.	0.5	N.D.	78
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
BENZYL ALCOHOL	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
2-METHYLPHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.5	N.D.	--
4-METHYLPHENOL	N.D.	0.5	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.5	N.D.	80
HEXACHLOROETHANE	N.D.	0.5	N.D.	--
NITROBENZENE	N.D.	0.5	N.D.	--
ISOPHORONE	N.D.	0.5	N.D.	--
2-NITROPHENOL	N.D.	0.5	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.5	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.5	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.5	N.D.	67
NAPHTHALENE	N.D.	0.5	N.D.	--
4-CHLOROANILINE	N.D.	0.5	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.5	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	1.0	N.D.	83
2-METHYLNAPHTHALENE	N.D.	0.5	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.5	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.5	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.5	N.D.	--
2-CHLORONAPHTHALENE	N.D.	0.5	N.D.	--
2-NITROANILINE	N.D.	0.5	N.D.	--
DIMETHYL PHTHALATE	N.D.	0.5	N.D.	--
ACENAPHTHYLENE	N.D.	0.5	N.D.	--
3-NITROANILINE	N.D.	0.5	N.D.	--
ACENAPHTHENE	N.D.	0.5	N.D.	73
2,4-DINITROPHENOL	N.D.	2.5	N.D.	--
4-NITROPHENOL	N.D.	0.5	N.D.	--
DIBENZOFURAN	N.D.	0.5	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.5	N.D.	--
2,6-DINITROTOLUENE	N.D.	0.5	N.D.	--
DIETHYL PHTHALATE	N.D.	0.5	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.5	N.D.	--

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Federal ID #68-0140157

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

page 2

H2O GEOL

Atten: Gary D. Lowe  
Project: Not provided  
Received: September 12, 1995  
re: One sample for Semivolatle Organic Compounds (B/NAs) analysis,  
continued.

Method: EPA 3550/8270

SampleID: 9125-4A,B,C,D

Sample #: 102312

Matrix: SOIL

Extracted: September 15, 1995


Sampled: September 12, 1995

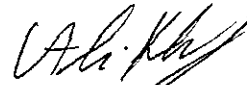
Run: 8544-A

Analyzed: September 17, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
FLUORENE	N.D.	0.5	N.D.	--
4-NITROANILINE	N.D.	0.5	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.5	N.D.	--
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.5	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.5	N.D.	--
HEXACHLOROBENZENE	N.D.	0.5	N.D.	--
PENTACHLOROPHENOL	N.D.	2.5	N.D.	48
PHENATHRENE	N.D.	0.5	N.D.	--
ANTHRACENE	N.D.	0.5	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	0.5	N.D.	--
FLUORANTHENE	N.D.	0.5	N.D.	--
PYRENE	N.D.	0.5	N.D.	88
BUTYL BENZYL PHTHALATE	N.D.	0.5	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	1.0	N.D.	--
BENZO (A) ANTHRACENE	N.D.	0.5	N.D.	--
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.5	N.D.	--
CHRYSENE	N.D.	0.5	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	0.5	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.5	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.5	N.D.	--
BENZO (A) PYRENE	N.D.	0.5	N.D.	--
INDENO (1,2,3 C,D) PYRENE	N.D.	0.5	N.D.	--
DIBENZ (A,H) ANTHRACENE	N.D.	0.5	N.D.	--
BENZ (G,H,I) PERYLENE	N.D.	0.5	N.D.	--

For above sample: REPORTING LIMITS RAISED BY 10X DUE TO MATRIX INTERFERENCE

  
Alex Tam  
Chemist

  
Ali Khayrrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.  
Method: EPA 3550/8270

SampleID: 9125-5A,B,C,D

Sample #: 102313

Matrix: SOIL

Extracted: September 15, 1995

Sampled: September 12, 1995

Run: 8544-A

Analyzed: September 17, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
PHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROETHYL) ETHER	N.D.	0.5	N.D.	--
2-CHLOROPHENOL	N.D.	0.5	N.D.	78
1,3-DICHLOROBENZENE	N.D.	0.5	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.5	N.D.	--
BENZYL ALCOHOL	N.D.	0.5	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.5	N.D.	--
2-METHYLPHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.5	N.D.	--
4-METHYLPHENOL	N.D.	0.5	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.5	N.D.	80
HEXACHLOROETHANE	N.D.	0.5	N.D.	--
NITROBENZENE	N.D.	0.5	N.D.	--
ISOPHORONE	N.D.	0.5	N.D.	--
2-NITROPHENOL	N.D.	0.5	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.5	N.D.	--
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.5	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.5	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.5	N.D.	67
NAPHTHALENE	N.D.	0.5	N.D.	--
4-CHLOROANILINE	N.D.	0.5	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.5	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	1.0	N.D.	83
2-METHYLNAPHTHALENE	N.D.	0.5	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.5	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.5	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.5	N.D.	--
2-CHLORONAPHTHALENE	N.D.	0.5	N.D.	--
2-NITROANILINE	N.D.	0.5	N.D.	--
DIMETHYL PHTHALATE	N.D.	0.5	N.D.	--
ACENAPHTHYLENE	N.D.	0.5	N.D.	--
3-NITROANILINE	N.D.	0.5	N.D.	--
ACENAPHTHENE	N.D.	0.5	N.D.	73
2,4-DINITROPHENOL	N.D.	2.5	N.D.	--
4-NITROPHENOL	N.D.	0.5	N.D.	--
DIBENZOFURAN	N.D.	0.5	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.5	N.D.	--
2,6-DINITROTOLUENE	N.D.	0.5	N.D.	--
DIETHYL PHTHALATE	N.D.	0.5	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.5	N.D.	--

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Federal ID #68-0140157

# CHROMALAB, INC.

Environmental Services (SDB)

September 26, 1995

Submission #: 9509110  
page 2

H2O GEOL


Atten: Gary D. Lowe  
Project: Not provided  
Received: September 12, 1995  
re: One sample for Semivolatle Organic Compounds (B/NAs) analysis,  
continued.

Method: EPA 3550/8270  
SampleID: 9125-5A,B,C,D

Sample #: 102313 Matrix: SOIL Extracted: September 15, 1995  
Sampled: September 12, 1995 Run: 8544-A Analyzed: September 17, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
FLUORENE	N.D.	0.5	N.D.	--
4-NITROANILINE	N.D.	0.5	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	2.5	N.D.	--
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.5	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.5	N.D.	--
HEXACHLOROBENZENE	N.D.	0.5	N.D.	--
PENTACHLOROPHENOL	N.D.	2.5	N.D.	48
PHENATHRENE	N.D.	0.5	N.D.	--
ANTHRACENE	N.D.	0.5	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	0.5	N.D.	--
FLUORANTHENE	N.D.	0.5	N.D.	--
PYRENE	N.D.	0.5	N.D.	88
BUTYL BENZYL PHTHALATE	N.D.	0.5	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	1.0	N.D.	--
BENZO (A) ANTHRACENE	N.D.	0.5	N.D.	--
BIS (2-ETHYLHEXYL) PHTHALATE	0.7	0.5	N.D.	--
CHRYSENE	N.D.	0.5	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	0.5	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.5	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.5	N.D.	--
BENZO (A) PYRENE	N.D.	0.5	N.D.	--
INDENO (1,2,3 C,D) PYRENE	N.D.	0.5	N.D.	--
DIBENZ (A,H) ANTHRACENE	N.D.	0.5	N.D.	--
BENZ (G,H,I) PERYLENE	N.D.	0.5	N.D.	--

For above sample: REPORTING LIMITS RAISED BY 10X DUE TO MATRIX INTERFERENCE

  
Alex Tam  
Chemist

  
Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

September 18, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

re: 5 samples for Total Recoverable Petroleum Hydrocarbons analysis.  
Method: EPA 418.1

Sampled: September 12, 1995 Matrix: SOIL Extracted: September 15, 1995  
Run: 8459-C Analyzed: September 15, 1995

Spl #	Sample ID	TRPH	REPORTING	BLANK	BLANK SPIKE
		(mg/Kg)	LIMIT	RESULT	RESULT
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
102309	9125-1A,B,C,D	110	10	N.D.	87
102310	9125-2A,B,C,D	86	10	N.D.	87
102311	9125-3A,B,C,D	510	10	N.D.	87
102312	9125-4A,B,C,D	110	10	N.D.	87
102313	9125-5A,B,C,D	170	10	N.D.	87

  
Carolyn House

Extractions Supervisor



Ali Kharrazi  
Organic Manager



# CHROMALAB, INC.

Environmental Services (SDB)

September 18, 1995

Submission #: 9509110

H2O GEOL

Atten: Gary D. Lowe

Project: Not provided  
Received: September 12, 1995

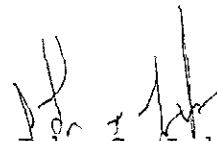
re: 5 samples for Cadmium, Chromium, Lead, Nickel, and Zinc analysis.  
Method: EPA 3050A M/6010

Sampled: September 12, 1995 Matrix: SOIL Extracted: September 13, 1995  
Run: 8433-D Analyzed: September 15, 1995

Spl #	Sample ID	Cadmium (mg/Kg)	Chromium (mg/Kg)	Lead (mg/Kg)	Nickel (mg/Kg)	Zinc (mg/Kg)
102309	9125-1A,B,C,D	N.D.	24	18	32	38
102310	9125-2A,B,C,D	N.D.	28	20	36	48
102311	9125-3A,B,C,D	N.D.	31	31	34	50
102312	9125-4A,B,C,D	N.D.	25	22	35	36
102313	9125-5A,B,C,D	N.D.	31	22	32	32

Reporting Limits	0.5	1.0	1.0	1.0	1.0
Blank Result	N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)	96	96	96	97	97

  
Doina Danet  
Chemist

  
John S. Labash  
Inorganic Supervisor

# CHROMALAB, INC.

1220 Quarry Lane • Pleasanton, California 94566-4756  
510/484-1919 • Facsimile 510/484-1096

## Chain of Custody

Environmental Services (SDB) (DOHS 1094)

DATE 09/12/95 PAGE 1 OF 1

PROJ MGR Gary D Lowe  
 COMPANY H2OGEOL  
 ADDRESS P.O. Box 2165  
Livermore, CA 94551-2141

SAMPLERS (SIGNATURE) [Signature] (PHONE NO.) 510 373 9211  
 (FAX NO.) 510 773 9222

### ANALYSIS REPORT

SUBM #: 9509110 REP: GC  
CLIENT: H2OGEOL  
DUE: 09/26/95  
REF #: 23830

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel, TEPH (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS ( )	PRIORITY POLI METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)	NUMBER OF COI	
9125-1a,b,c,d	09/12	11:16:49 19:46	So.1		X	X	X	X	X	X	X	X	X	X	X	X						4
9125-2a,b,c,d	09/12	11:20:48 25:57	So.1		X	X	X	X	X	X	X	X	X	X	X	X						4
9125-3a,b,c,d	09/12	12:01:44 04:57	So.1		X	X	X	X	X	X	X	X	X	X	X	X						4
9125-4a,b,c,d	09/12	12:06:50 08:52	So.1		X	X	X	X	X	X	X	X	X	X	X	X						4
9125-5a,b,c,d	09/12	13:01:14 06:17	So.1		X	X	X	X	X	X	X	X	X	X	X	X						4

**PROJECT INFORMATION**

PROJECT NAME \_\_\_\_\_  
 PROJECT NUMBER \_\_\_\_\_  
 P.O. # \_\_\_\_\_

**SAMPLE RECEIPT**

TOTAL NO OF CONTAINERS \_\_\_\_\_  
 HEAD SPACE \_\_\_\_\_  
 REC'D GOOD CONDITION/COLD \_\_\_\_\_  
 CONFORMS TO RECORD \_\_\_\_\_

TAT: STANDARD 5-DAY, 10 DAY, 24, 48, 72, OTHER

SPECIAL INSTRUCTIONS/COMMENTS  
 In accordance with Mrs. Jean Ratto Larkin  
 Mr. Jeff Larkin  
 778 Augusta Drive  
 Moraga, CA 94556

**RELINQUISHED BY**

1. [Signature] (TIME) \_\_\_\_\_  
Gary D Lowe 14:25 (DATE)  
H2OGEOL 09/12/95 (COMPANY)

2. \_\_\_\_\_ (TIME) \_\_\_\_\_  
 \_\_\_\_\_ (DATE) \_\_\_\_\_  
 \_\_\_\_\_ (COMPANY)

3. \_\_\_\_\_ (TIME) \_\_\_\_\_  
 \_\_\_\_\_ (DATE) \_\_\_\_\_  
 \_\_\_\_\_ (COMPANY)

**RECEIVED BY**

1. Rudo Nyachota 14:25 (TIME)  
Rudo Nyachota 9/12/95 (DATE)  
Chromalab (COMPANY)

2. \_\_\_\_\_ (TIME) \_\_\_\_\_  
 \_\_\_\_\_ (DATE) \_\_\_\_\_  
 \_\_\_\_\_ (COMPANY)

3. RECEIVED BY (LABORATORY) \_\_\_\_\_ (TIME) \_\_\_\_\_  
 \_\_\_\_\_ (DATE) \_\_\_\_\_  
 \_\_\_\_\_ (LAB)