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QUARTERLY GROUNDWATER MONITORING
AND SAMPLING AT THE PROPERTY
LOCATED AT 2951 HIGH STREET
OAKLAND, CALIFORNIA
JUNE 13, 1995

PREPARED FOR:

MR. MOHAMMAD A. MASHHOON

ZIMA CENTER CORPORATION

2951 HIGH STREET

OAKLAND, CALIFORNIA 94619

BY:

SOIL TECH ENGINEERING, INC.

298 BROKAW ROAD

SANTA CLARA, CALIFORNIA 95050

LIST OF TABLES

TABLE 1 ... GROUNDWATER MONITORING DATA.

TABLE 2 ... GROUNDWATER SAMPLES RESULTS.

LIST OF FIGURES

FIGURE 1 ... SITE VICINITY MAP SHOWING 2951 HIGH STREET, OAKLAND, CALIFORNIA.

FIGURE 2 ... SITE PLAN SHOWING LOCATIONS OF BUILDING, EXISTING UNDERGROUND STORAGE TANKS AREA, MONITORING WELLS AND GROUNDWATER FLOW DIRECTION.

LIST OF APPENDICES

APPENDIX "A" ... TABLE 1 AND TABLE 2.

APPENDIX "B" ... FIGURE 1 AND FIGURE 2.

APPENDIX "C" ... STE'S STANDARD OPERATION PROCEDURE.

APPENDIX "D" LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-

CUSTODY RECORDS.

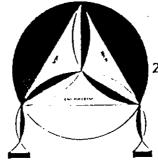
TABLE OF CONTENTS	Page No.
LETTER OF TRANSMITTAL	1
SITE DESCRIPTION	1
BACKGROUND	1-3
SCOPE OF PRESENT WORK	3
CURRENT FIELD WORK	
GROUNDWATER MONITORING GROUNDWATER SAMPLING	3 - 4 4
GROUNDWATER FLOW	4
ANALYTICAL RESULTS	5
SUMMARY	5
RECOMMENDATION	6
LIMITATIONS	6-7
APPENDIX "A"	
TABLE 1 - GROUNDWATER MONITORING DATA TABLE 2 - GROUNDWATER ANALYTICAL RESULTS	T1 T2-T3
APPENDIX *B*	
FIGURE 1 - SITE VICINITY MAP FIGURE 2 - SITE PLAN	M1 M2
APPENDIX "C"	
GROUNDWATER SAMPLING	SOP1

PRIORITY ENVIRONMENTAL LABS ANALYTICAL REPORT AND CHAIN-OF-CUSTODY

SOIL TECH ENGINEERING, INC.

APPENDIX "D"

SOIL TECH ENGINEERING



Soil, Foundation and Geological Engineers

298 BROKAW ROAD, SANTA CLARA, CA 95050 = (408) 496-0265 OR (408) 496-0266

June 13, 1995

File No. 8-93-558-ST

Mr. Mohammad A. Mashhoon Zima Center Corporation 2951 High Street Oakland, California 94619

SUBJECT:

QUARTERLY GROUNDWATER MONITORING AND SAMPLING FOR THE PROPERTY Located at 2951 High Street, in Oakland, California

Dear Mr. Mashhoon:

This report presents the results of quarterly groundwater monitoring and sampling conducted by Soil Tech Engineering, Inc. (STE), on May 26, 1995, at the subject site (Figure 1).

SITE DESCRIPTION:

The site is located at the intersection of Penniman Avenue and High Street, in Oakland, California. The site is currently used as a mini market and gasoline service station.

BACKGROUND:

In September 1993, Alpha Geo Services removed one 300 gallon waste oil tank which was properly manifested and transported to H&H Environmental Services Company in San Francisco. Sail Tech

Engineering, Inc. (STE) was retained by Zima Center Corporation to conduct soil sampling below the former waste oil tank area. Two soil samples were collected, one from tank excavation at approximately 9 feet below grade, and the other from the excavated stockpiled soil. All sampling was conducted under the supervision of Alameda County Health Department inspector Mr. Barney Chan. Soil samples from the waste oil tank excavation did detect moderate levels of Total Petroleum Hydrocarbons and very low levels of Trichloroethane and Tetrachloroethane. The detail of the soil sampling is described in the STE's report dated September 30, 1993.

In October 1993, STE excavated grossly contaminated soil from the former waste oil tank area and conducted additional soil sampling. The detail of the soil excavation is described in the STE's report dated December 15, 1993.

In February 15 and 16, 1993, STE conducted a preliminary site assessment of contaminated soil and groundwater by drilling three soil borings and converted the borings into monitoring wells (STMW-1, STMW-2 and STMW-3). The three monitoring wells were installed in the vicinity of the former tanks excavation area. Groundwater was first encountered at depth of 14 feet below grade in well STMW-1; 10 feet below grade in well STMW-2 and 17 feet below grade in well STMW-3 during drilling operation. STE recommended quarterly monitoring for at least one year to further assess the site, per State and Local Regulatory Agencies' requirements.

The detail of preliminary site investigation is described in STE's report entitled "Preliminary Site Assessment for the Property" dated March 8, 1995.

SCOPE OF PRESENT WORK:

The scope of present work consist of:

- Monitor wells STMW-1, STMW-2 and STMW-3 and existing well MW-4 for presence of any free floating product (FFP) and measured the depth-to-water table.
- Purge the monitoring wells prior to sampling.
- Sample monitoring wells STMW-1, STMW-2 and STMW-3.
- Submit water sample to a state-certified laboratory for chemical analyses of Total Petroleum Hydrocarbons as diesel and gasoline (TPHd and TPHg), Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), Total Oil & Grease (TOG), Cadmium, Chromium, Lead, Nickel, Zinc and Volatile Organic Compounds (VOC's) per EPA Method 8010.
- Review results and prepared a report of the investigation.

CURRENT FIELD WORK:

GROUNDWATER MONITORING:

On May 26, 1995, STE staff monitored three monitoring wells (STMW-1, STMW-2 and STMW-3) and one existing well MW-4 for ground-

water depth and checked for the presence of FFP and/or petroleum odor. No FFP or odor were detected in monitoring wells STMW-1 and STMW-3. Rainbow sheen spots and light sewerage odor were detected in monitoring well STMW-1. Rainbow sheen spots and light petroleum odor were detected in well MW-4. The shallow groundwater table depths ranged from 4.90 to 6.44 feet below ground surface. Table 1 summarizes the depth of groundwater measurements and the field observations made.

GROUNDWATER SAMPLING:

Following monitoring of the groundwater wells, the wells were purged at least five well volumes and sampled in accordance with STE's Standard Operation Procedures (Appendix "C"), which contains State and Local guidelines for sampling of monitoring wells.

Water samples were decanted into clean VOA vials and were sealed with Teflon lined screw caps, labeled and placed in a cool ice chest and submitted to Priority Environmental Labs, a statecertified laboratory with a chain-of-custody.

GROUNDWATER FLOW:

Water elevation data were used to determine groundwater flow direction. Table 1 summarizes the groundwater elevations. The groundwater flow direction beneath the site was in a northerly direction as of May 26, 1995 (Figure 2).

ANALYTICAL RESULTS:

Water samples from monitoring wells STMW-1 and STMW-3 detected Total Petroleum Hydrocarbons as diesel and gasoline (TPHd and TPHg), Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) and Total Oil & Grease (TOG) below laboratory detection limits. Monitoring well STMW-2 detected TPHg at 4.6 milligrams per liter (mg/L), Benzene at 0.039 mg/L; Toluene at 0.018 mg/L; Ethylbenzene at 0.021 mg/L, and Total Xylenes at 0.039 mg/L. TPHd and TOG were not detected in monitoring well STMW-2. Volatile Organic Compounds (VOC's) were not detected in any of the three monitoring wells. Metals were below laboratory detection limit in all three monitoring wells, except for low levels Nickel was detected in monitoring wells STMW-1 (0.36 mg/L) and STMW-2 (0.33 mg/L).

The groundwater analytical results are summarized in Table 1. Copy of the analytical results and chain-of-custody documentation are attached in Appendix "D".

SUMMARY:

This quarterly monitoring detected no FFP or odor in wells STMW-1 and STMW-3, except rainbow sheen spots and light sewerage odor were detected in well STMW-2, and rainbow sheen spots and light petroleum odor were detected in well MW-4. TPHd, TPHg, BTEX, TOG and VOC's were below laboratory detection limits in wells STMW-1 and STMW-3. Low levels of Nickel was detected in water sample from monitoring well STMW-1. Low levels of TPHg, BTEX and Nickel were detected in water sample from monitoring well STMW-2.

RECOMMENDATION:

STE recommends the continuation of quarterly monitoring and sampling of the on-site wells for three more quarters. The proposed program will be re-evaluated at the end of fourth quarter. In addition, initiating a further investigation as required by ACHCSA to define the extent of the dissolved hydrocarbons plume.

A copy of this report should be sent to Alameda County Health Care Services Agency (ACHCSA) and California Regional Water Quality Control Board--San Francisco Bay Region (CRWQCB--SFBR).

LIMITATIONS:

This report was prepared in accordance with the currently accepted standards for environmental investigations. The contents of this report reflect the conditions of the subject site at this particular time. No other warranties, expressed or implied, as to the professional advice provided are made.

The findings of this report are based on the results of the independent laboratory analyses and are valid at the present date and conditions. However, changes in the conditions of a property can occur with the passage of time, whether they are due to natural processes or the works of man, on this property or adjacent properties.

If you have any questions or require additional information, please feel free to contact our office at your convenience.

Sincerely,

SOIL TECH ENGINEERING, INC.

NOORI AMELI

PROJECT ENGINEER

FRANK HAMEDI-FARD GENERAL MANAGER LAWRENCE KOO, P. E. C. E. #34928

A P P E N D I X "A"

TABLE 1
GROUNDWATER MONITORING DATA
MEASUREMENT IN FEET

Date	Well No./ Elevation	Depth-to- Water	Groundwater Elevation	Sheen	Odor		
2/23/95	STMW-1 (97.62)	5.89	91.73	None	None		
	STMW-2 (97.87)	6.81	91.06	None	None		
	STMW-3 (97.03)	4.21	92.82	None	None		
·	MW-4 (96.77)	6.90	89.87	Rainbow	Strong Petroleum		
5/26/95	STMW-1 (97.62)	5.20	92.42	None	None		
	STMW-2 (97.87)	4.90	92.97	Rainbow	Light Sewerage		
	STMW-3 (97.03)	6.44	90.59	None	None		
	MW-4 (96.77)	6.18	90.59	Rainbow	Light Petroleum		

TABLE 2 GROUNDWATER SAMPLES RESULTS IN MILLIGRAMS PER LITER (mg/L)

1. TPHd, TPHg, BTEX and TOG Results

Date	Sample No.	TPHd	TPHg	В	Т	Е	X	TOG
2/23/95	STMW-1	0.28	ND	ND	ND	ND	ND	0.6
	STMW-2	0.47	3.3	0.0096	0.013	0.008	0.028	18
	STMW-3	ND	ND	ND	ND	ND	ND	ND
5/26/95	STMW-1	ND	ND	ND	ND	ND	ND	ND
	STMW-2	ND	4.6	0.039	0.018	0.021	0.039	ND
	STMW-3	ND ND		ND	ND	ND	ND	ND

TABLE 2 CONT'D GROUNDWATER SAMPLES RESULTS IN MILLIGRAMS PER LITER (mg/L)

2. EPA 8010, Cadmium, Chromium, Lead, Nickel and Zinc Results

Date	Sample No.	EPA 8010	Cđ	Cr	Pb	Ni	Zn	
2/23/95	STMW-1	ND	ND	ND	ND	ND	ND	
	STMW-2	ND	ND	ND	ND	ND	ND	
***	STMW-3	ND	ND	ND	ND	ND	ND	
5/26/95	STMW-1	ND	ND	ND	ND	0.26		
	STMW-2	ND	ND	ND	ND	0.36	ND ND	
	STMW-3	ND	ND	ND	ND	ND		

EPA 8010 - Chlorinated Hydrocarbons

TPHd - Total Petroleum Hydrocarbons as diesel

TPHg - Total Petroleum Hydrocarbons as gasoline

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

Cd - Cadmium

Cr - Chromium

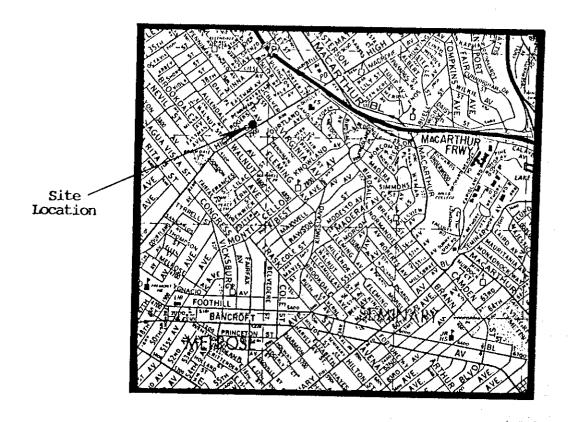
Pb - Lead

Ni - Nickel

Zn - Zinc

ND - Not Detected (Below Laboratory Detection Limit)

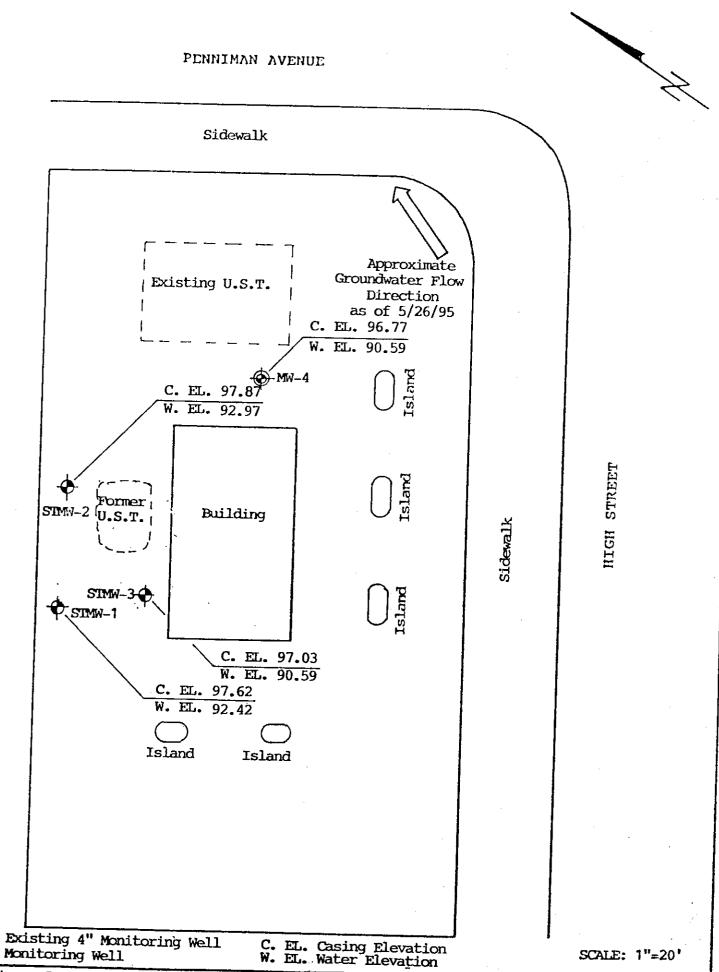
A P P E N D I X "B"





Thomas Brothers Map 1993 Edition San Francisco, Alameda and Contra Costa Counties

Page 12 C2



A P P E N D I X "C"

GROUNDWATER SAMPLING

Prior to collection of groundwater samples, all of the sampling equipment (i.e. bailer, cables, bladder pump, discharge lines and etc...) was cleaned by pumping TSP water solution followed by distilled water.

Prior to purging, the well "Water Sampling Field Survey Forms" were filled out (depth to water and total depth of water column were measured and recorded). The well was then bailed or pumped to remove four to ten well volumes or until the discharged water temperature, conductivity and pH stabilized. "Stabilized" is defined as three consecutive readings within 15% of one another.

The groundwater sample was collected when the water level in the well recovered to 80% of its static level.

Forty milliliter (ml.), glass volatile organic analysis (VOA) vials with Teflon septa were used as sample containers. The groundwater sample was decanted into each VOA vial in such a manner that there was a meniscus at the top. The cap was quickly placed over the top of the vial and securely tightened. The VOA vial was then inverted and tapped to see if air bubbles were present. If none were present, the sample was labeled and refrigerated for delivery under chain-of-custody to the laboratory. The label information would include a sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

A P P E N D I X *D*



Precision Environmental Analytical Laboratory

May 30, 1995

PEL # 9505093

SOIL TECH ENGINEERING, INC.

Attn: Noori Ameli

Re: Three water samples for Gasoline/BTEX, Diesel, and Oil & Grease

analyses.

Project name: 2951 High St., - Oakland

Project number: 8-93-558-ST

Date sampled: May 26, 1995

Date extracted: May 26-29, 1995

Date submitted: May 26, 1995 Date analyzed: May 26-29, 1995

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel	Benzene (ug/L)	Toluene I (ug/L)	Ethyl Benzene (ug/L)	Xylene	Oil & Grease (mg/L)
STMW-1 STMW-2 STMW-3	N.D. 4600 N.D.	N.D. N.D. N.D.	N.D. 39 N.D.	N.D. 18 N.D.	N.D. 21 N.D.	N.D. 39 N.D.	N.D. N.D. N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	80.8%	97.1%	84.2%	93.4%	82.0%	95.7%	
Detection limit	50	50	0.5	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602	5520 C & F

David Duong Laboratory Director

1764 Houret Court Milpitas, CA. 95035

Tel: 408-946-9636



Environmental Analytical laboratory

May 31, 1995

PEL # 9505093

SOIL TECH ENGINEERING

Attn: Noori Ameli

Project name: 2951 High St-Oakland

Project number: 8-93-558-ST

Sample I.D.: STMW-1

Date Sampled: May 26, 1995

Date Analyzed: May 26-31, 1995

Date Submitted: May 26, 1995

Detection limit: 0.5 ug/L

Method of Analysis: EPA 601

COMPOUND NAME

CONCENTRATION

SPIKE RECOVERY

	(ug/L)	SPIKE RECOVERY (%)
Chloromethane	N.D.	
Vinyl Chloride	N.D.	
Bromomethane	N.D.	~~~~
Chloroethane	N.D.	
Trichlorofluoromethane	N.D.	
1,1-Dichloroethene	N.D.	108.8
Methylene Chloride	N.D.	
1,2-Dichloroethene (TOTAL)	N.D.	
1,1-Dichloroethane	N.D.	
Chloroform	N.D.	
1,1,1-Trichloroethane	N.D.	*
Carbon Tetrachloride	N.D.	108.8
1,2-Dichloroethane	N.D.	
Trichloroethene	N.D.	107.1
1,2-Dichloropropane	N.D.	
Bromodichloromethane	N.D.	
2-Chloroethylvinylether	N.D.	
Trans-1,3-Dichloropropene	N.D.	
Cis-1,3-Dichloropropene	N.D.	
1,1,2-Trichloroethane	N.D.	
Tetrachloroethene	N.D.	103.8
Dibromochloromethane	N.D.	
Chlorobenzene	N.D.	98.9
Bromoform	N.D.	
1,1,2,2-Tetrachloroethane	N.D.	
1,3-Dichlorobenzene	N.D.	
1,4-Dichlorobenzene	N.D.	
1,2-Dichlorobenzene	N.D.	

Laboratory Director 1764 Houret Court Milpitas,

CA. 95035

Tel: 408-946-9636



Precision Environmental Analytical Laboratory

May 31, 1995

PEL # 9505093

SOIL TECH ENGINEERING

Attn: Noori Ameli

Project name: 2951 High St-Oakland

Project number: 8-93-558-ST

Sample I.D.: STMW-2

Date Sampled: May 26, 1995

Date Analyzed: May 26-31, 1995

Date Submitted: May 26, 1995

Method of Analysis: EPA 601

Detection limit: 0.5 ug/L

COMPOUND NAME	CONCENTRATION (ug/L)	SPIKE RECOVERY (%)
Chloromethane	N.D.	
Vinyl Chloride	N.D.	
Bromomethane	N.D.	
Chloroethane	N.D.	
Trichlorofluoromethane	N.D.	
1,1-Dichloroethene	N.D.	108.8
Methylene Chloride	N.D.	100.0
1,2-Dichloroethene (TOTAL)	N.D.	
1,1-Dichloroethane	N.D.	<u>-</u> -
Chloroform	N.D.	
1,1,1-Trichloroethane	N.D.	
Carbon Tetrachloride	N.D.	108.8
1,2-Dichloroethane	N.D.	
Trichloroethene	N.D.	107.1
1,2-Dichloropropane	N.D.	
Bromodichloromethane	N.D.	
2-Chloroethylvinylether	N.D.	The file ten ten ma
Trans-1,3-Dichloropropene	N.D.	
Cis-1,3-Dichloropropene	N.D.	
1,1,2-Trichloroethane	N.D.	
Tetrachloroethene	N.D.	103.8
Dibromochloromethane	N.D.	
Chlorobenzene	N.D.	98.9
Bromoform	N.D.	
1,1,2,2-Tetrachloroethane	N.D.	
1,3-Dichlorobenzene	N.D.	
1,4-Dichlorobenzene	N.D.	
1,2-Dichlorobenzene	N.D.	

David Duong

Laboratory Director

1764 Houret Court Milpitas, CA. 95035

Tel: 408-946-9636



Analytical Laboratory **Environmental**

May 31, 1995

PEL # 9505093

SOIL TECH ENGINEERING

Attn: Noori Ameli

Project name: 2951 High St-Oakland

Project number: 8-93-558-ST

Sample I.D.: STMW-3

Date Sampled: May 26, 1995

Date Analyzed: May 26-31, 1995

Date Submitted: May 26, 1995

Detection limit:

Method of Analysis: EPA 601

COMPOUND NAME

CONCENTRATION

SPIKE RECOVERY

	(ug/L)	(%)
Chloromethane	N.D.	
Vinyl Chloride	N.D.	
Bromomethane	N.D.	·
Chloroethane	N.D.	
Trichlorofluoromethane	N.D.	
1,1-Dichloroethene	N.D.	108.8
Methylene Chloride	N.D.	
1,2-Dichloroethene (TOTAL)	N.D.	
1,1-Dichloroethane	N.D.	
Chloroform	N.D.	·
1,1,1-Trichloroethane	N.D.	
Carbon Tetrachloride	N.D.	108.8
1,2-Dichloroethane	N.D.	
Trichloroethene	N.D.	107.1
1,2-Dichloropropane	N.D.	
Bromodichloromethane	N.D.	
2-Chloroethylvinylether	N.D.	
Trans-1,3-Dichloropropene	N.D.	
Cis-1,3-Dichloropropene	N.D.	
1,1,2-Trichloroethane	N.D.	
Tetrachloroethene	N.D.	103.8
Dibromochloromethane	N.D.	
Chlorobenzene	N.D.	98.9
Bromoform	N.D.	
1,1,2,2-Tetrachloroethane	N.D.	
1,3-Dichlorobenzene	N.D.	
1,4-Dichlorobenzene	N.D.	
1,2-Dichlorobenzene	N.D.	· · · · · · · · · · · · · · · · · · ·

Laboratory Director 1764 Houret Court Milpitas,

CA. 95035

Tel: 408-946-9636



Precision Environmental Analytical Laboratory

May 31, 1995

PEL # 9505093

SOIL TECH ENGINEERING

Attn: Noori Ameli

Re: Three water samples for Cadmium, Chromium, Lead, Nickel, and

Zinc analyses.

Project name: 2951 High St., - Oakland

Project number: 8-93-558-ST

Date sampled: May 26, 1995

Date extracted: May 26-31, 1995

Date submitted: May 26, 1995 Date analyzed: May 26-31, 1995

RESULTS:

SAMPLE I.D.	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
STMW-1 STMW-2 STMW-3	N.D. N.D. N.D.	N.D. N.D. N.D.	N.D. N.D. N.D.	0.36 0.33 N.D.	N.D. N.D. N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Detection limit	0.10	0.10	0.05	0.20	0.20
Method of Analysis	7130	7190	7420	7520	7950

David Duong Laboratory Director

1764 Houret Court Milpitas, CA. 95035

Tel: 408-946-9636

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Soil, Foundation and Geological Engineers

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