

latinialiai

Ms. Maryann Leshin City of Emeryville 2200 Powell Street, 12th Floor Emeryville, California 94608

Consultation
Analytical Test Results
1056 48th Street
Emeryville, California

Dear Ms. Leshin:

This letter presents results of our consultation regarding analytical tests of soil samples from the subject site. We previously performed a geotechnical investigation of the site and presented the results in our report data January 29, 1991. During the geotechnical investigation, we obtained four near-surface soil samples for analytical testing. A description of the sampling method and the results of the analytical tests were presented in our letter dated February 8, 1991.

In summary, four soil samples were composited into one sample for analytical testing. The test results indicated concentrations of extractable petroleum hydrocarbons (diesel), polynuclear aromatic hydrocarbons, and volatile halocarbons (1,1,1-trichloroethane). In addition, concentrations of cadmium, cyanide and lead were of potential concern.

Analytical tests were performed on a composited sample to economically search for a large number of contaminants in a large number of samples. Because the samples were composited, the actual concentration and location of the contaminants were unknown. Accordingly, during this assessment, the four individual soil samples that made up the composited sample were analyzed for:

- 1. Total extractable hydrocarbons (EPA 3550/8015),
- Total and soluble cadmium and lead (EPA 6010 and 7420, and CCR Title 26 Section 22-66700),

# Subsurface Consultants, Inc.

- 3. Cyanide (EPA 335.2 modified),
- 4. Volatile halocarbons (EPA 5030/8010), and
- 5. Polynuclear aromatic hydrocarbons (EPA 3350/8100).

Analytical testing was performed by Curtis & Tompkins Ltd., a State of California Department of Health Services (DHS) certified analytical laboratory for the tests performed. Copies of the analytical test reports, and copies of the Chain-of-Custody Records are attached. The analytical test results are presented in Table 1.

The analytical test results indicate that detectable concentrations of diesel, cyanide, polynuclear aromatic hydrocarbons, and cadmium and lead exist at the site. Although 1,1,1-trichloroethane was detected in the composited sample, none was detected in the individual samples. The concentrations of each of the contaminants in each boring are shown on the attached Site Plan, Plate 1. Our conclusions and recommendations regarding each contaminant are presented in the following paragraphs.

#### Diesel

Diesel was detected in all four of the test borings in concentrations ranging from 10 to 97 mg/kg. The clean up level often imposed by regulatory agencies for diesel is 100 mg/kg. The source of diesel at the site is currently uncertain. However, because the site was formerly occupied by a residence, it is not likely that an underground diesel storage tank formerly existed at the site. It is possible that the diesel is related to the use of the site as a parking area. If this is the case, the diesel concentrations should decrease with depth. We recommend that additional test borings be drilled at the site to determine the vertical extent of diesel.

Table 1. Analytical Test Results

A. Organic Compounds

Sample	Total Extractable Hydrocarbons <sup>1</sup> (mg/kg)	Volatile Halocarbons (ug/kg)	(5,6 Hpm) Cyanide (mg/kg)	Polynuclear Aromatic Hydrocarbons (ug/kg)
B1 @ 1'	11	ND <sup>2</sup>	0.3	ND
B2 @ 1'	10	ND	ND	ND
B3 @ 1'	24	ND	0.4	1,060 <sup>3</sup> 7
B4 @ 1'	97	ND	ND	31,020 <sup>4</sup>

#### B. Cadmium and Lead

<u>Sample</u>	Cadmium <sup>5</sup> Total (mg/kg)	Soluble (mg/L)	Lead <sup>6</sup> Total ( lovo *** (mg/kg)	Soluble 5 mile (mg/L)
B1 @ 1' -	(2.3)	0.02	23	0.24
B2 @ 1'	/1.7 \	0.04	18	0.28
B3 @ 1'	(3.1)	0.08	280	9.4
B4 @ 1'	2.0	0.04	91	3.2

Diesel Range

None detected, see attached laboratory test reports for detection limits

Nine compounds detected, with concentrations ranging from 56 to 200 ug/kg; see attached laboratory rest reports for detected compounds

Thirteen compounds detected, with concentrations ranging from 220 to 6400 ug/kg; see attached laboratory test reports for detected compounds

Total Threshold Limit Concentration = 100 mg/kg, Soluble Threshold Limit Concentration = 1.0 mg/L

<sup>6</sup> TTLC = 1000 mg/kg, STLC = 5.0 mg/L

#### Cyanide

Cyanide was encountered in Borings at concentrations of 0.3 and 0.4 mg/kg. These are at or near the detection limit of 0.3 mg/kg. The source of cyanide at the residential site is unknown. However, we speculate that the is related to use of a be drilled at the site to determine if higher concentrations exist, and the lateral and vertical extent of soil containing cyanide. There are no regulatory guidelines regarding acceptable concentrations of the site of the additional investigation reveals similar very low cyanide concentrations (at or near the detection limit) and the lateral problems at the site of the site

If you desire, the risk of cyanide felated problems at the site can be more accurately determined by performing toxicity the say, which tests if living organisms are affected by the in-place cyanide concentrations. Alternatively, the side of the same of the state o

# Polynuclear Aromatic Hydrocarbons

Report of the former element. The cumulative concentration of all of the DNA's ranged from 1060 to 21 020 per No specific regulatory criteria exists from 1060 to 21 020 per No specific regulatory criteria exists from 1060 to 21 020 per No specific regulatory criteria exists from 1060 to 21 020 per No specific regulatory criteria exists from 1060 to 21 020 per No specific regulatory criteria exists from 1060 to 21 020 per No specific regulatory criteria exists from 1060 to 21 020 per No specific regulatory criteria exists from 1060 to 21 020 per No specific regulatory criteria exists from 1060 to 21 020 per No specific regulatory criteria exists from 1060 to 21 020 per No specific regulatory criteria exists from 1060 to 21 020 per No specific regulatory criteria exists from 1060 to 21 020 per No specific regulatory criteria exists from 1060 per No specific regulatory c

#### Cadmium and Lead

All four of the cadmium concentrations, and the lead concentrations at test Borings 1 and 2, were relatively low and consistent with typical background levels in the area. However, concentrations at test Boring 3, located near the former structure, were elevated. The soluble lead concentration at test Boring 3 () is above the Soluble Threshold Limit Concentration of 5.0 mg/l. Accordingly, this is considered to be

likely to be naint and solder from the farmer observe. We recommend that additional test borings be drilled at the site to describe the lateral and vertical extent of lead.

If you have questions regarding our conclusions or recommendations, please call.

Yours very truly,

Subsurface Consultants, Inc.

William K. Wikander

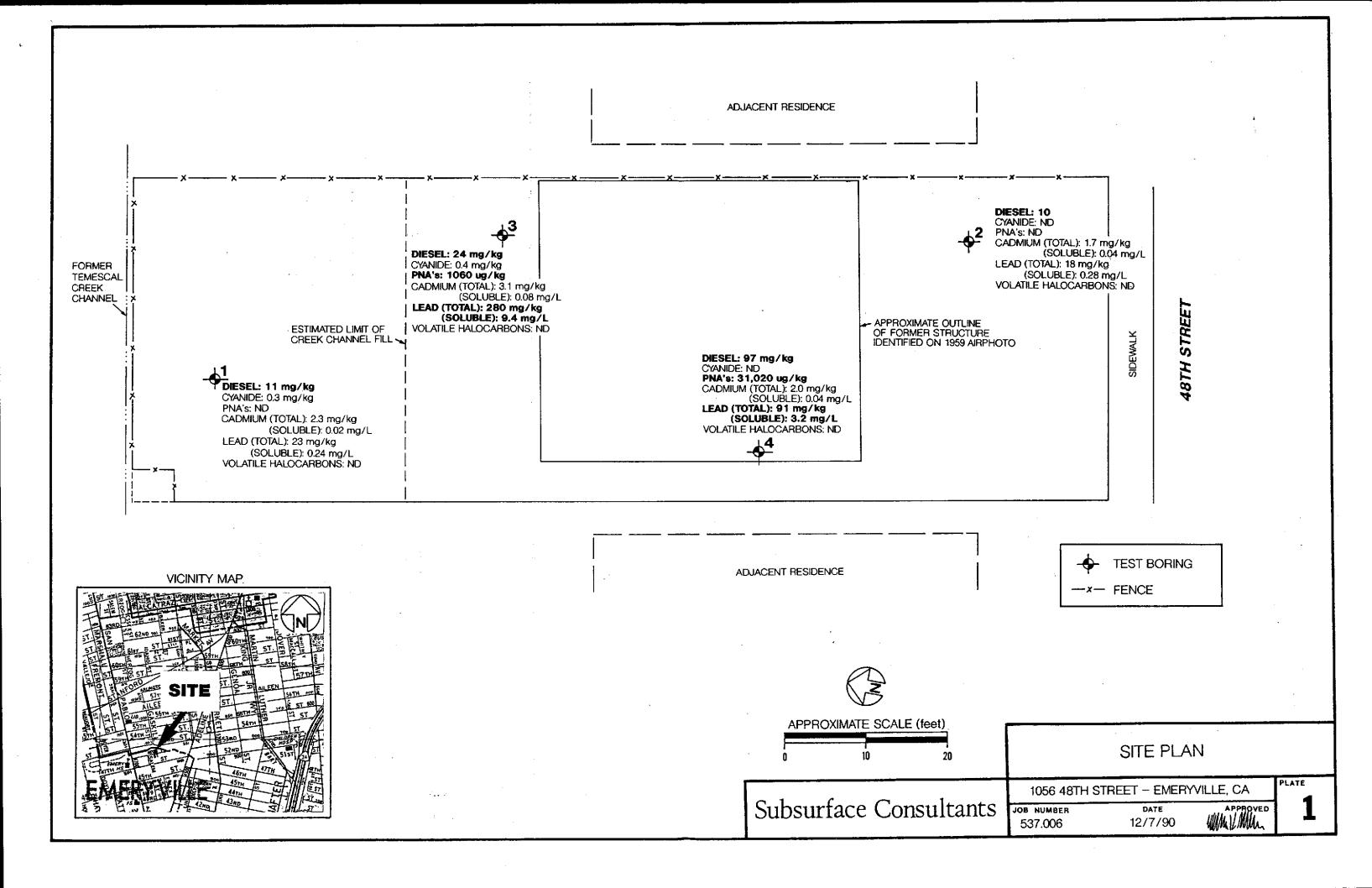
Geotechnical Engineer 892 (expires 12/31/92)

WKW: RWR: ddh

4 copies submitted

Attachments:

Plate 1 - Site Plan Analytical Test Reports Chain-of-Custody Records





# Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 9471O, Phone (415) 486-0900

DATE RECEIVED: 12/04/90 DATE REPORTED: 02/15/91

LAB NUMBER: 102952

CLIENT: SUBSURFACE CONSULTANTS

REPORT ON: FOUR SOIL SAMPLES

PROJECT ID: 537.006

LOCATION: 1056 48th Street

RESULTS: SEE ATTACHED

QA/QC Approval

Final



CLIENT: SUBSURFACE CONSULTANTS PROJECT ID: 537.006

LOCATION: 1056 48th Street

DATE RECEIVED: 12/04/90

DATE REQUESTED: 02/07/91 DATE EXTRACTED: 02/08/91

DATE ANALYZED: 02/12/91 DATE REPORTED: 02/15/91

#### Extractable Petroleum Hydrocarbons in Soils & Wastes California DOHS Method LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
102952-1	B1@1 '	ND	11	1
102952-2	B2@1 '	ND	10	1
102952-3	B3@1 '	ND	24	1
102952-4	B4@1 '	ND	97	1

ND = Not detected at or above reporting limit.

RPD, %	8	
RECOVERY, %	86	
<b></b>		



LABORATORY NUMBER: 102952-1

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 537.006 SAMPLE ID: B1@1,

DATE RECEIVED: 12/04/90 DATE REQUESTED: 02/07/91 DATE ANALYZED: 02/12/91 DATE REPORTED: 02/15/91

EPA 8010: Volatile Halocarbons in Soil & Wastes Extraction Method: EPA 5030 - Purge & Trap

		REPORTING
Compound	RESULT	LIMIT
	ug/Kg	ug/Kg
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
trichlorofluoromethane	ND	5.0
l, l-dichloroethene	ND	5.0
l, l-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
l, 2-dichloroethane	ND	5.0
l, l, l-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
bromodichloromethane	ND	5.0
1,2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
l, l, 2-trichloroethane	ND	5.0
trans-I,3-dichloropropene	ND	5.0
dibromochloromethane	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
tetrachloroethylene	ND	5.0
1,1,2,2-tetrachloroethane	ND	5.0
chlorobenzene	ND	5.0
l, 3-dichlorobenzene	ND	5.0
l, 2-dichlorobenzene	ND	5.0
l, 4 - dichlorobenzene	ND	5.0

ND = Not detected at or above reporting limit.

# QA/QC SUMMARY

Duplicate: Relative % Difference Spike: Average % Recovery

3



LABORATORY NUMBER: 102952-2 CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 537.006 SAMPLE ID: B2@1' DATE RECEIVED: 12/04/90 DATE REQUESTED: 02/07/91 DATE ANALYZED: 02/13/91 DATE REPORTED: 02/15/91

EPA 8010: Volatile Halocarbons in Soil & Wastes Extraction Method: EPA 5030 - Purge & Trap

		REPORTING
Compound	RESULT	LIMIT
	ug/Kg	ug/Kg
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
trichlorofluoromethane	ND	5.0
l, l-dichloroethene	ND	5.0
l, I-dichloroethane	ND	5.0
l,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
l, 2-dichloroethane	ND	5.0
l, l, l-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
bromodichloromethane	ND	5.0
l, 2-dichloropropane	ND .	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
l, l, 2 - trichloroethane	ND	5.0
trans-1,3-dichloropropene	ND	5.0
dibromochloromethane	ND	5.0
2-chloroethylvinyl ether	ND	10
bromoform	ND	5.0
tetrachloroethylene	ND	5.0
l, l, 2, 2 - tetrachloroethane	ND	5.0
chlorobenzene	ND	5.0
l, 3-dichlorobenzene	ND	5.0
l, 2-dichlorobenzene	ND	5.0
l, 4-dichlorobenzene	ND	5.0

ND = Not detected at or above reporting limit.

#### QA/QC SUMMARY

Duplicate: Relative % Difference

Spike: Average % Recovery



LABORATORY NUMBER: 102952-3 CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 537.006 SAMPLE ID: B3@1' DATE RECEIVED: 12/04/90
DATE REQUESTED: 02/07/91
DATE ANALYZED: 02/12/91
DATE REPORTED: 02/15/91

EPA 8010: Volatile Halocarbons in Soil & Wastes Extraction Method: EPA 5030 - Purge & Trap

		REPORTING
Compound	RESULT	LIMIT
	ug/Kg	ug/Kg
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chioride	ND	5.0
trichlorofluoromethane	ND	5.0
l, l-dichloroethene	ND	5.0
l, l-dichloroethane	ND	5.0
1,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
l, 2-dichloroethane	ND	5.0
l, l, l-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
bromodichloromethane	ND	5.0
l, 2-dichloropropane	ND	5.0
cis-l,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
l, l, 2-trichloroethane	ND	5.0
trans-1,3-dichloropropene	ND	5.0
dibromochloromethane	ND	5.0
2-chloroethylvinyl ether	ND	10
bromo form	ND	5.0
tetrachloroethylene	ND	5.0
l, l, 2, 2-tetrachloroethane	ND	5.0
chlorobenzene	ND	5.0
l, 3-dichlorobenzene	ND	5.0
1,2-dichlorobenzene	ND	5.0
l, 4 - dichlorobenzene	ND	5.0

ND = Not detected at or above reporting limit.

#### QA/QC SUMMARY

Duplicate: Relative % Difference Spike: Average % Recovery

3



LABORATORY NUMBER: 102952-4 CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 537.006 SAMPLE ID: B4@1' DATE RECEIVED: 12/04/90
DATE REQUESTED: 02/07/91
DATE ANALYZED: 02/12/91
DATE REPORTED: 02/15/91

EPA 8010: Volatile Halocarbons in Soil & Wastes Extraction Method: EPA 5030 - Purge & Trap

		REPORTING
Compound	RESULT	LIMIT
	ug/Kg	ug/Kg
chloromethane	ND	10
bromome than e	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5.0
trichlorofluoromethane	ND	5.0
l, l-dichloroethene	ND	5.0
l, l-dichloroethane	ND	5.0
l,2-dichloroethene (total)	ND	5.0
chloroform	ND	5.0
freon 113	ND	5.0
l, 2-dichloroethane	ND	5.0
l, l, l-trichloroethane	ND	5.0
carbon tetrachloride	ND	5.0
bromodich lorome than e	ND	5.0
l, 2-dichloropropane	ND	5.0
cis-1,3-dichloropropene	ND	5.0
trichloroethylene	ND	5.0
l, l, 2 - trichloroethane	ND	5.0
trans-1,3-dichloropropene	ND	5.0
dibromochloromethane	ND	5.0
2-chloroethylvinyl ether	ND	10
bromo form	ND	5.0
tetrachloroethylene	ND	5.0
l, I, 2, 2 - tetrachloroethane	ND	5.0
chlorobenzene	ND	5.0
I, 3-dichlorobenzene	ND	5.0
l, 2-dichlorobenzene	ND	5.0
l, 4-dichlorobenzene	ND	5.0

ND = Not detected at or above reporting limit.

#### QA/QC SUMMARY

Duplicate: Relative % Difference

Spike: Average % Recovery



LABORATORY NUMBER: 102952-1 CLIENT: SUBSURFACE CONSULTANTS

JOB #: 537.006 SAMPLE ID: B1@1' DATE RECEIVED: 12/04/90
DATE REQUESTED: 02/07/91
DATE EXTRACTED: 02/12/91
DATE ANALYZED: 02/13/91
DATE REPORTED: 02/15/91

Polynuclear Aromatic Hydrocarbons in Soils & Wastes by EPA 8270 Extraction Method: EPA 3550

COMPOUND	RESULT	REPORT I NG L IMI T
	ug/Kg	ug/Kg
Naphthalene	ND	5 0
Acenaphthylene	ND	5 0
Acenaphthene	ND	5 0
Fluorene	ND	5 0
Phenanthrene	ND	5 0
Anthracene	ND	5 0
Fluoranthene	ND	5 0
Pyrene	ND	5 0
Benzo (a) anthracene	ND	5 0
Chrysene	ND	5 0
Benzo(b) fluoranthene	ND	5 0
Benzo(k) fluoranthene	ND	5 0
Benzo(a)pyrene	ND	5 0
Indeno(1,2,3-cd)pyrene	ND	50
Dibenzo(a,h)anthracene	ND	5 0
Benzo (g, h, i) perylene	ND	50

ND = Not detected at or above reporting limit.

	$\eta_0$	
2-Fluorophenol	90	
Phenol-d6	99	
2,4,6-Tribromophenol	113	
Nitrobenzene-d5	8 2	
2-Flurobiphenyl	92	
Terphenyl-d14	73	



LABORATORY NUMBER: 102952-2 CLIENT: SUBSURFACE CONSULTANTS

JOB #: 537.006 SAMPLE ID: B2@1' DATE RECEIVED: 12/04/90
DATE REQUESTED: 02/07/91
DATE EXTRACTED: 02/12/91
DATE ANALYZED: 02/12/91
DATE REPORTED: 02/15/91

Polynuclear Aromatic Hydrocarbons in Soils & Wastes by EPA 8270 Extraction Method: EPA 3550

COMPOUND	RESULT	REPORT I NG L IMI T
	ug/Kg	ug/Kg
Naphthalene	ND	5 0
Acenaphthylene	ND	5 0
Acenaphthene	ND	5 0
Fluorene	ND	5 0
Phenanthrene	ND	5 0
Anthracene	ND	5 0
Fluoranthene	ND	5 0
Pyrene	ND	5 0
Benzo(a) anthracene	ND	5 0
Chrysene	ND	5 0
Benzo(b)fluoranthene	ND	5 0
Benzo(k)fluoranthene	ND	5 0
Benzo(a) pyrene	ND	5 0
Indeno(1,2,3-cd)pyrene	ND	5 0
Dibenzo(a,h)anthracene	ND	5 0
Benzo(g,h,i)perylene	ND	5 0

ND = Not detected at or above reporting limit.

	%	
2-Fluorophenol	98	
Phenol-d6	107	
2,4,6-TribromophenoI	117	
Nitrobenzene-d5	89	
2-Flurobiphenyl	96	
Terphenyl-d14	75	



LABORATORY NUMBER: 102952-3 CLIENT: SUBSURFACE CONSULTANTS

JOB #: 537.006 SAMPLE ID: B3@1' DATE RECEIVED: 12/04/90
DATE REQUESTED: 02/07/91
DATE EXTRACTED: 02/12/91
DATE ANALYZED: 02/13/91
DATE REPORTED: 02/15/91

Polynuclear Aromatic Hydrocarbons in Soils & Wastes by EPA 8270 Extraction Method: EPA 3550

COMPOUND	RESULT	REPORT I NG L IMI T
	ug/Kg	ug/Kg
Naphthalene	ND	5 0
Acenaphthylene	ND	5 0
Acenaphthene	ND	5 0
Fluorene	ND	5 0
Phenanthrene	110	5 0
Anthracene	ND	5 0
Fluoranthene	190	5 0
Pyrene	200	5 0
Benzo (a) anthracene	7 1	5 0
Chrysene	7 6	5 0
Benzo(b)fluoranthene	190	5 0
Benzo(k)fluoranthene	ND	5 0
Benzo(a) pyrene	100	5 0
Indeno(1,2,3-cd)pyrene	5 6	5 0
Dibenzo(a,h)anthracene	ND	5 0
Benzo(g,h,i)perylene	67	50

ND = Not detected at or above reporting limit.

	<b>%</b>
2 - Fluorophenol	89
Phenol-d6	9 8
2,4,6-Tribromophenol	113
Nitrobenzene-d5	8 3
2-Flurobiphenyl	9 3
Terphenyl-d14	7 4



LABORATORY NUMBER: 102952-4 CLIENT: SUBSURFACE CONSULTANTS

JOB #: 537.006 SAMPLE ID: B4@1, DATE RECEIVED: 12/04/90 DATE REQUESTED: 02/07/91 DATE EXTRACTED: 02/12/91 DATE ANALYZED: 02/13/91 DATE REPORTED: 02/15/91

Polynuclear Aromatic Hydrocarbons in Soils & Wastes by EPA 8270 Extraction Method: EPA 3550

COMPOUND	RESULT	REPORTING LIMIT
	ug/Kg	ug/Kg
Naphthalene	480	5 0
Acenaphthylene	930	5 0
Acenaphthene	ND	5 0
Fluorene	190	5 0
Phenanthrene	6200	5 0
Anthracene	220	5 0
Fluoranthene	6200	5 0
Pyrene	6400	5 0
Benzo (a) anthracene	1100	5 0
Chrysene	1500	5 0
Benzo(b) fluoranthene	3200	5 0
Benzo(k) fluoranthene	ND	5 0
Benzo (a) pyrene	2000	50
Indeno(1,2,3-cd)pyrene	1200	50
Dibenzo(a,h)anthracene	ND	5 0
Benzo (g, h, i) perylene	1 4 0 0	5 0

ND = Not detected at or above reporting limit.

	%		
2-Fluorophenol	90		
Phenol-d6	99		
2,4,6-Tribromophenol	101		
Nitrobenzene-d5	8 2		
2-Flurobipheny!	91		
Terphenyl-d14	8 0		
=======================================			



CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 537.006

DATE RECEIVED: 12/04/90 DATE REQUESTED: 02/07/91 DATE ANALYZED: 02/14/91 DATE REPORTED: 02/15/91

ANALYSIS: CYANIDE

ANALYSIS METHOD: EPA 335.2 MODIFIED

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
102952-1	B1@1'	0.3	mg/Kg	0.3
102952-2	B2@1'	ND	mg/Kg	0.3
102952-3	B3@1'	0.4	mg/Kg	0.3
102952-4	B4@1'	ND	mg/Kg	0.3

ND = Not detected at or above reporting limit.

RPD, %	2		
RECOVERY, %	88		
=======================================			



CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 537.006

DATE RECEIVED: 12/04/90 DATE REQUESTED: 02/07/91 DATE ANALYZED: 02/08/91 DATE REPORTED: 02/15/91

ANALYSIS: CADMIUM

ANALYSIS METHOD: EPA 6010

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
102952-1	В1@1 '	2.3	mg / Kg	0.5
102952-2	B2@1'	1.7	mg/Kg	0.5
102952-3	В3@1'	3.1	mg/Kg	0.5
102952-4	B4@1'	2.0	mg /Kg	0.5

	=======================================
RPD, %	8
RECOVERY, %	110



CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 537.006

DATE RECEIVED: 12/04/90 DATE REQUESTED: 02/07/91 DATE ANALYZED: 02/08/91 DATE REPORTED: 02/15/91

ANALYSIS: LEAD

ANALYSIS METHOD: EPA 7420/EPA 6010\*

LAB ID	SAMPLE ID	RESULT	UNITS	REPORTING LIMIT
102952-1	B1@1 '	23	mg / Kg	2.5
102952-2	B2@1'	18	mg / Kg	2.5
102952-3	B3@1'	280*	mg/Kg	2.5
102952-4	B 4@1 '	91	mg/Kg	2.5

	:======================================
RPD, %	16
RECOVERY, %	118



CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 537.006

LOCATION: 1056 48th Street

DATE RECEIVED: 12/04/90

DATE REQUESTED: 02/07/91

DATE ANALYZED: 02/11/91

DATE REPORTED: 02/15/91

ANALYSIS: SOLUBLE CADMIUM

EXTRACTION BY WASTE EXTRACTION TEST: CCR TITLE 26 SECTION 22-66700

ANALYSIS METHOD: EPA 6010

LAB ID	CLIENT ID	RESULT	UNITS	REPORTING LIMIT
102952-1	B1@1 '	0.02	mg / L	0.01
102952-2	B 2@1 '	0.04	mg/L	0.01
102952-3	В 3@1 '	0.08	mg/L	0.01
102952-4	B4@1'	0.04	mg/L	0.01

QA/QC SUMMARY

RPD, %

RECOVERY, %

<1 109



CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 537.006

LOCATION: 1056 48th Street

DATE RECEIVED: 12/04/90

DATE REQUESTED: 02/07/91

DATE ANALYZED: 02/11/91

DATE REPORTED: 02/15/91

ANALYSIS: SOLUBLE LEAD

EXTRACTION BY WASTE EXTRACTION TEST: CCR TITLE 26 SECTION 22-66700

ANALYSIS METHOD: EPA 7420/EPA 6010\*

LAB ID	CLIENT ID	RESULT	UNITS	REPORTING LIMIT
102952-1 102952-2	B1@1' B2@1'	0.24 0.28	mg / L mg / L	0.05 0.05
102952-2	B3@1'	9.4*	mg/L	0.05
102952-4	B 4@1 '	3.2*	mg / L	0.05

QA/QC SUMMARY

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RPD, %
RECOVERY, %

109

4

102952

# Subsurface Consultants

CHAIN OF CUSTODY RECORDS .

Project Name:	46th Street		
SCI Job Number: 537/	D6		
Project Contact at SCI:	BILL WIKANTER	AND CARRY OF THE CO.	
Sampled By: CRAIG FL	STATER		
Analytical Laboratory:	CUETIS : TOMPKINS		
Analytical Turnaround:	STALDARD		· · · · · · · · · · · · · · · · · · ·
Sample ID Type1	SAMPLE FOR AU	CYANIDE  RYSIGNBLE  HOLLOCARBONS  TRUA'S	EPA 335.2 MOD EPA 8010 SPA 8100
* *	* *	* *	
Released by:	Received by:	Date:	
Released by:	Received by:	Date:	
Received by Laboratory:		Dats:	
Released by Laboratory:		Date:	
Released by:		Date:	

0 = Other (specify)

#### NOTES TO LABORATORY:

- Notify SCI if there are any anomalous peaks on GC or other scans

- Questions/clarifications - Contact SCI at (415) 268-0461

Sample Type: W = Water, S = Soil, O = Other (specify)
Container Type: V = VOA, P = Plastic, G = Glass, T = Brass Tube,

# Subsurface Consultants

CHAIN OF CUSTODY RECORD & ANALYTICAL TEST REQUEST

Project Nam	ie: 1056	48th Street			102457	
SCI Job Num	ber: <u>53</u>	7.006	•			
Project Con	stact at S	CI: CRAIN FLE	TEHER   BILL WIL	ander		
Sampled By:	CROSC	FLETEHER				
Analytical	Laborator	y: Cheris : T	ompleins .			
Analytical	Turnarour	id: Noemac				
Sample ID	Sample Type <sup>1</sup>	Container Type <sup>2</sup>	Sampling 	<u> Hold</u>	Analysis	Analytical Method
3101)	6.	<u>- T</u>	12/4/90		TVH BTXE	8015   8020
B201'   0					TEH	3550/8015
8301 65					TOG	5620 Eif
B+01')}				-	Pura. Adloc.	8010
<u></u>					Title 26 Metals	6010
		<del></del>		<del></del>	Cyanide	5mmw 17 4500CN-E
					Semivolatile Orgis.	3550   3270*
					* Pensones: PCB'S	·
	<del></del>					
*		*	*	*	*	*
Released by	:	In Work			Date:	2/4/90
Released by	Courier:				Date:	
Received by	Laborato	ry:/	A Alba	- 	Date:	M2-4-40 M=30
Relinquishe	d by Labo	ratory			Date:	
Received by	•	7			Date:	
1 Sample Ty 2 Container	Type: V	water, S = s = VOA, P = = other (s	plastic, G	ther (specified the specified (specified )	pecify) s, T = brass	tube,

Notes to Laboratory:

<sup>-</sup>Notify SCI if there are any anomalous peaks on GC or other scans -Questions/clarifications...contact SCI at (415) 268-0461