SOIL PILE AND CONCRETE VAULT SAMPLING

4701 San Leandro Street
Oakland, California

Prepared For

Mr. Francis Collins San Leandro Street Project 6050 Hollis Street Emeryville, California 94608

Prepared By:

Sequoia Environmental

Project Code: SLS-05 October 9, 1996

1111 Aladdin Ave., Suite B San Leandro, CA 94577 (510) 614-1900 Fax (510) 614-2923

October 9, 1996

Mr. Francis Collins San Leandro Street Project 6050 Hollis Street Oakland, CA 94608

Re: Soil Pile and Concrete Vault Sampling

4701 San Leandro Street Oakland, California

Dear Mr. Collins:

This letter documents the soil sampling activities performed at the referenced site. The purpose of the soil sampling was to determine the levels of petroleum hydrocarbons and lead in the soil pile and any presence of methylene chloride in the former locations of two concrete vaults. The sampling was in response to the directive issued by the Alameda County Department of Environmental Health on April 2, 1996.

On July 31, 1996, Sequoia Environmental personnel collected soil samples from the soil pile and from former locations of two concrete vaults. The samples were collected with a portable rig with core sampler containing brass sleeve.

Soil Pile Sampling

The quantity of the soil pile is approximately 200 cubic yards. Samples were collected from 2 feet inside the pile. Nine samples were collected from different locations of the soil pile (SP-1, SP-2, SP-3, SP-4, SP-5, SP-6, SP-7 SP-8 and SP-9). Sampling locations are shown on attached site plan, Figure 1. At the end of each sampling run, the ends of the brass sleeve were covered with aluminum foil, capped and sealed with clear tape. The brass sleeve was labeled and kept in a cooler containing ice. The auger and sampler were triple rinsed before the next sampling.

Concrete Vault Sampling

Using a portable rig, soil samples were collected from the fill ends of the concrete vaults and in-between the vaults (CV-1, CV-2 and CV-3). The samples were collected at approximately 15 feet below ground surface. Sampling

locations are shown in attached site plan, Figure 1. Packaging of the brass sleeves after sampling and quality control measures are as described above.

Laboratory analyses

Soil samples from the soil pile and concrete vault were sent to McCampbell Analytical in Pacheco, California for chemical analyses. Under laboratory condition, nine soil samples from the soil pile were made to three composite samples (SP-A, SP-C and SP-C). The samples were analyzed for total petroleum hydrocarbons as diesel (TPH-D) and as gasoline TPH-G, aromatic hydrocarbons as benzene, toluene, ethylbenzene and xylenes (BTEX), CAM/CCR 17 Metals and volatile halocarbons.

Soil samples from the concrete vaults (CV-1, CV-2 and CV-3) were analyzed for volatile halocarbons.

Laboratory Results

Laboratory results for the soil pile indicated that samples SP-A and SP-C contained detectable levels of xylenes at 0.013 ppm and 0.010 ppm respectively. The results also indicated that samples SP-A, SP-B and SP-C were non-detect for TPH-G, and other components of BTEX. TPH-D was detected in samples SP-A, SP-B and SP-C at levels of 120 ppm, 200 ppm and 190 ppm respectively. The levels of lead in samples SP-A, SP-B and SP-C were 2,400 ppm, 7,600 ppm and 2,700 ppm respectively. Due to the levels of lead, Toxicity characteristics Leaching Procedure (TCLP) was performed on the samples. The results were 34 ppm, 48 ppm and 35 ppm for SP-A, SP-B and SP-C respectively.

Laboratory results for the concrete vault indicated that samples CV-1, CV-2 and CV-3 were non-detect for methylene chloride. Detailed laboratory results and chain of custody are attached.

Conclusion

On the basis of the laboratory results Sequoia Environmental contends that the methylene chloride, a component of volatile halocarbons, was non-detect in the former locations of two concrete vaults.

Disposal activities for the soil pile are in progress. Upon conclusive arrangement with the accepting facility, the soil pile will be hauled off site and the manifest will be sent to Alameda County Department of Environmental Health.

Please feel free to call if you have any question about the sampling.

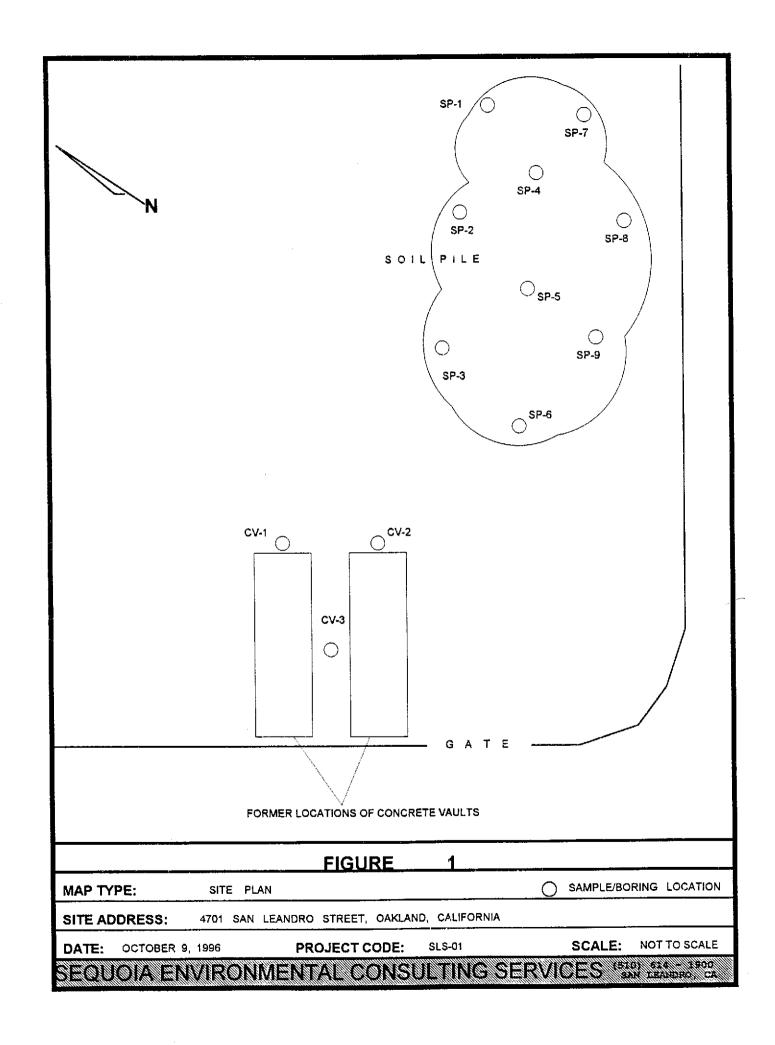
Sincerely,

Christwalnizeh.
Chris 'Wabuzoh

Senior Geologist

DHS Lead Inspector/Assessor

REA



oduled 8015.	Vola	Client Contac Client P.O: atile Hydroca 20 or 602: Califo		/abuzoh	***	Date Rece		
ge (C6-C12)	Vols	Client P.O:		/abuzoh	- N.	Date Extra	cted: 08/0	1-08/02/96
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oduled 8015.	and 80	tile Hydroca 20 or 602: Calife	,			Date Analy	yzed: 08/01	-08/02/96
;			r bons as C ernia RWQC	Gasoline*, v B (SF Bay Re	vith Meths	tert-Rutul	Fther* &	
	atrix	TPH(g) ⁺	МТВЕ	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate
P-A	S	ND	+==	ND	ND	ND	0.013	104
Р -В	s	ND		ND	ND	ND	ND	. 99
P-C	S	ND		ND	ND	ND	0.010	101
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unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	:
cted	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	
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gram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Diocal D	ange (C10-C23) Entropedal III	797
	Client P.O:	Date Analyzed: 08/02-08/03/96
San Leandro, CA 94577	Client Contact: Chris Wabuzoh	Date Extracted: 08/02/96
	-	Date Received: 08/01/96
1111 Aladdın Avenuc, Suite B		
Sequoia Environmental	Client Project ID: SLSP; San Leandro Street	Date Sampled: 07/31/96
1		

10-C23) Extractable Hydrocarbons as Diesel * EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID (3550) or GCFID (3510) Lab ID % Recovery Client ID Matrix TPH(d)+ Surrogate 67463 SP-A Ŝ 120,g 99 67464 SP-B S 200,g 96 67465 SP-C S 190,g 100 Reporting Limit unless other-W 50 ug/L wise stated; ND means not detected above the reporting limit S 1.0 mg/kg

^{*} water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern, c) aged diesel? is significant); d) gasoline range compounds are significant; c) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Sequoia Environmental	Client Project ID:	SLSP; San Leandro Stree	t Date Samp	led: 07/31/96						
IIII Aladdin Avenue, Suite B	:			Date Received: 08/01/96						
San Leandro, CA 94577	Client Contact: Ch	ris 'Wabuzoh		Date Extracted: 08/02/96 Date Analyzed: 08/02/96						
	Client P.O:									
		e Halocarbons	Date Analy	vzed: 08/02/96						
EPA method 601 or 8010	VOIZIII	e maiocarnons								
Lab ID	67463	67464	67465							
Client ID	SP-A	SP-B	SP-C							
Matrix	S	S	\$							
Compound		Concentratio								
Bromodichloromethane	ND	ND	MD							
Bromoform ^(b)	ND	ND	ND							
Bromomethane	ND	ND	ND]						
Carbon Tetrachloride (c)	ND	ND	ND							
Chlorobenzene	ND	ND	ND							
Chioroethane	ND	ND	ND							
2-Chloroethyl Viny l Ether (d)	ND	ND	ND	<u> </u>						
Chloroform (e)	ND	ND	ND	я						
Chloromethane	ND	ND	ND	!						
Dibromochloromethane	ND	ND	ND							
1,2-Dichlorobenzene	ND	ND	 DN							
1,3-Dichlorobenzene	ND	ND	ND							
1.4-Dichlorobenzene	ND	ND	ND							
Dichlorodifluoromethane	ND	ND	ND	<u></u>						
1,1-Dichloroethane	ND	ND	ND							
1,2-Dichloroethane	ND	ND	ND							
l.i-Dichloroethene	ND	ND	ND							
cis 1,2-Dichloroethene	ND	ND	ND	 						
rans 1,2-Dichloroethene	ND	ND	ND	1						
1,2-Dichloropropane	ND	ND	ND	†- -						
cis 1,3-Dichloropropene	ND	ND	ND	<u> </u>						
rans 1,3-Dichloropropene	ND	ND	ND	T						
Methylene Chloride ^(f)	ND	ND	ND							
1,1,2,2-Tetrachloroethane	ND	ND	ND	<u> </u>						
Tetrachioroethene	ND	ND	ND							
.1,1-Trichloroethane	ND	ND	ND							
.1,2-Trichloroethane	ND	ND	ND							
richloroethene	ND	ND	ND							
richlorofluoromethane	ND	ND	ND							
Vinyl Chloride ^(g)	ND	ND	ND							
6 Recovery Surrogate	82	107	119	17.						
Comments										
water and vapor samples are reported is coording limit unless otherwise stated: D means not detected above the report of tribromomethane: (c) tetrachlorome is a lighter than water immiscible sheen HS Certification No. 1614	water/TCLP extracts, ND ting limit; N/A means and thane: (d) (2-chlosostha)	< 0.5ug/L; soil and sludge, NI lyte not applicable to this analyticable to the series. Output Description O	O< Sug/kg yais	***************************************						

Sequoia Environmental	Client P	roject ID: SLSP	; San Leandro S	Street	Date Sa	mpled:	07/31/96	
1111 Aladdin Avenue, Suite	В		eceived: 08/01/96					
San Leandro, CA 94577	Client C	Contact: Chris 'V	Vabuzoh		Date Ex	tracted.	08/01/96	5
	Client P	.0:			Date Ar	alyzed:	08/01-08	V02/96
		CAM / CCR		-				
EPA methods 6010/200.7; 7470/747			.1	841/279.2	(Tl); 239.:	2 (Pb, wat	er matrix)	
Lab ID	67463	67464	67465	<u> </u>		Re	porting Li	mit
Client ID Matrix	SP-A S	SP-B	SP-C	<u> </u>			·	
Extraction ⁰	TTLC	TTLC	S TTLC	<u> </u>		S	W	STLC /
Compound	1100		tration •	!		TTLC mg/kg	TTLC	
Antimony (Sb)	11	2.6	ND			2.5	mg/L 0.05	mg/L 0.05
Arsenic (As)	11	24	20			2.5	0.005	0.25
Barium (Ba)	180	270	210			1.0	0.05	0.05
Beryllium (Be)	ND	ND	ND			0.5	0.01	0.01
Cadmium (Cd)	0.94	1.0	0.69		· .	0.5	0.005	0.01
Chromium (Cr)	52	61	60			0.5	0.005	0.05
Cobalt (Co)	15	13	11			2.0	0.05	0.05
Copper (Cu)	130	100	67			2.0	0.05	0.05
Lead (Pb)	2400	7600	2700			3.0	0.005	0.2
Mercury (Hg)	0.59	0.83	0.35			0.06	0.0008	0.0008
Molybdenum (Mo)	ND	ND	ND	-		2.0	0.05	0.05
Nickel (Ni)	110	95	85			2.0	0.05	0.05
Selenium (Se)	ND	ND	ND			2.5	0.005	0.25
Silver (Ag)	ND	ND	ND	-	· · · · · · · · · · · · · · · · · · ·	1.0	0.01	0.05
Thallium (Tl)	ND	ND	ND			0.5	0.001	0.05
Vanadium (V)	39	62	43	1		2.0	0.05	0.05
Zinc (Zn)	100	230	200	<u> </u>		1.0	0.05	0.05
% Recovery Surrogate	96	98	97				4	<u> </u>
Comments		i		 				

^{*} water samples are reported in mg/L, soil and sludge samples in mg/kg and all TCLP & STLC extracts in mg/L

ND means not detected above the reporting limit

EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC from CA Trile

surrogate diluted out of range; N/A means surrogate not applicable to this analysis

reporting limit raised due matrix interference

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

6902 ASQ4 Company: Sequoia Environmental OF RECORD CUSTODY III Aladin avenue, Suite B TURN AROUND TIME: RUSH 24 HOUR 46 HOUR 5 DAY ANALYSIS REQUEST OTHER Wabuzok 38 0255/543 Sequera Environmental Sequera Environmental 67463 FAX HO.: 510-614-1900 67464 PROJECT NO .: PROJECT NAME: Som Jambo Street PROJECT LOCATION: 67465 Oakland, Calfornia NETHOD PRESERVED SAMPLING MATRIX SAMPLE DA 608/8080 LOCATION DATE TIME T NO T X Ĕ ¥. ž SP-10 Composité SP-21 3 SP-A 7-31 Am SP-10, SP-2 SP - 30 and sp-30 as one SP-40 Sample SP - 50 SP-B 7-31 Pm 3 5P-A. Do SP - 6D the same forsp-40 to SP-71 5P-6D, and SP - 8D 95P-C 7-31 3 Am SP-70 to Sp. 91. RELUNCIONISMED BY: Chris Walnisch DATE RECEIVED BY: REMARKS: 8-1 RECEMED BY: MR WE WAR SAM REUNQUISHED BY: CCOO CONDITION DATE ME PROPERTY. REGERTO BY LABORATORY:

Sequoia Envir	onmental	Client Pro	oject ID: SLSP; Sai	1 Leandro Street	Date Sampled	Date Sampled: 07/31/96						
1111 Aladdin	Avenue, Suite B	ļ			Date Received: 08/01/96							
San Leandro,	CA 94577	Client Co	ntact: Chris 'Wabu	Date Extracted: 08/16-08/17/96								
		Client P.	D:	Date Analyzed: 08/17/96								
EPA analytical m	Client Contact: Chris 'Wabuzoh Client P.O: Lead alytical methods 6010/200.7, 239.2 D Client ID Matrix Extraction Lead SP-A S TCLP 34 SP-B S TCLP 48	•										
Lab ID			Extraction	Leac	i*	% Recovery Surrogate						
67463	SP-A	S	TCLP	34		NA						
67464	SP-B	S	TCLP	48	,	NA						
67465	SP-C	S	TCLP	35		NA						
				A.V. A.F.								

Reporting Limit unless otherwise stated; ND means not detected above the re-	S	TTLC	3.0 mg/kg
porting limit	W	TTLC	0.005 mg/L
		STLC,TCLP	0.2 mg/L
			1

^{*} soil and sludge samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

⁺ Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

^{*} surrogate diluted out of range; N/A means surrogate not applicable to this analysis

[&]amp; reporting limit raised due matrix interference

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

QC REPORT FOR AA METALS

Date: 08/17/96 Matrix: Soil/TCLP

	Concent	ration			% Reco	very	
Analyte	(mg	g/kg,mg/	L)	Amount			RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	0.0	5.78	5.36	5.0	116	107	7.7
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachrome	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = $\langle MS - MSD \rangle$ / $\langle MS + MSD \rangle$ x 2 x 100

6902 ASQ4

COMPANY:	Segnoia p	Envir	orma	ento	āl											C	H	Al	IN		0	F	(J	JS	57	C	D	Y	-	RJ	Ev			•
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SAMPI.E ID	LOCATION			CONTAINERS	TYPE CONTAINERS										Ē	as Diesel	troliun	etroieu	1/801	<u> </u>	8/80B/	808/s	4/824	625/8270	- 17 Meto	Priorit		7240/	C LEAD						: :
		DATE	TIME	8	TYPE	MATER	Z.E.	6	SUUDGE	THER	ğ	HNOS	y	OTHER	ğ	TPH as	Total Petrolium	otal p	EPA 601/8010	Ž	EPA 608/8080	8	EPA 62		3	- A93	Ī	94	ORCAN	ខ្ល				•	
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SP-21	SP-A	7-31	Am	3			~								7	~			<u> </u>						✓	_	X						524	Posite D 50- 1 50-2	ְ (נב
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Sequoia Environmental	Client Project ID:	SLSP; San Leandro Str	eet Date Sam	pled: 07/31/96					
1111 Aladdin Avenue, Suite B			Date Rec	Date Received: 08/01/96					
San Leandro, CA 94577	Client Contact: Cl	hris 'Wabuzoh	Date Extr	Date Extracted: 08/02/96					
	Client P.O:		Date Ana	Date Analyzed: 08/02/96					
	Volati	le Halocarbons							
EPA method 601 or 8010	67460	65163	(5)(5)						
Lab ID	67460	67461	67462	<u> </u>					
Client ID	CV-1	CV-2	CV-3						
Matrix C	S ·	S	<u> </u>						
Compound		Concentrat		· · · · · · · · · · · · · · · · · · ·					
Bromodichloromethane	ND	ND	ND						
Bromoform ^(b)	ND	ND	ND						
Bromomethane (c)	ND ND	ND	ND						
Carbon Tetrachloride(c)	ND	ND	ND						
Chlorobenzene	ND	ND	ND						
Chloroethane	ND	ND	ND						
2-Chloroethyl Viny I Ether (d)	ND	ND	ND						
Chloroform (e)	ND	ND	ND						
Chloromethane	ND	ND	ND						
Dibromochloromethane	ND	ND	ND						
1,2-Dichlorobenzene	ND	ND	ND						
1,3-Dichlorobenzene	ND	ND	ND						
1,4-Dichlorobenzene	ND	ND	ND						
Dichlorodifluoromethane	ND	ND	ND						
1,1-Dichloroethane	ND	ND	ND						
1,2-Dichloroethane	ND	ND	ND						
1,1-Dichloroethene	ND	ND	ND						
cis 1,2-Dichloroethene	ND	ND	ND						
trans 1,2-Dichloroethene	ND	ND	ND						
1,2-Dichloropropane	ND	ND	ND						
cis 1,3-Dichloropropene	ND	ND	ND						
trans 1,3-Dichloropropene	ND	ND	ND	1					
Methylene Chloride ^(f)	ND	ND	ND ND						
1,1,2,2-Tetrachloroethane	ND	ND ND	ND ND						
Tetrachloroethene	ND	ND ND	ND ND						
1,1,1-Trichloroethane	ND ND	1							
1,1,2-Trichloroethane		ND	ND ND						
Trichloroethene	ND ND	ND ND	ND ND	 					
Trichlorofluoromethane	ND ND	ND ND	ND ND	-					
Vinyl Chloride (g)	ND	ND ND	ND	 					
<u> </u>	ND	ND	ND						
% Recovery Surrogate	119	118	119	- 					
Comments		1							

^{*} water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg and all TCLP extracts in ug/L.

Reporting limit unless otherwise stated: water/TCLP extracts, ND< 0.5ug/L; soil and sludge, ND< 5ug/kg

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~ 5 vol. % sediment.

QC REPORT FOR EPA 8010/8020/EDB

Date:

08/02/96-08/03/96 Matrix: Soil

	entrati	on (ug/k	3)	% Reco	very	
Sample (#77777)	MS	MSD	Amount Spiked	MS	MSD	RPD
0	108	106	100	108	106	1.9
0	91	90	100	91	90	1.1
į. o	81	81	100	81	81	0.0
0	94	93	100	94	93	1.1
0	120	118	100	120	118	1.7
0	108	107	100	108		0.9
0	109	108	100	109	108	0.9
	Sample (#77777) 0 0 0 0 0	Sample (#77777) MS 0 108 0 91 0 81 0 94 0 120 0 108	Sample (#77777) MS	Sample	Sample	Sample

% Rec. = (MS - Sample) / amount spiked x 100

RPD = $(MS - MSD) / (MS + MSD) \times 2 \times 100$

6901 ASQ3 Company: Sequoia Environmental
1111 Aladdin Avenue, Suite B CHAIN OF CUSTODY RECORD TURN AROUND TIME: San Leandro, CA 94577 24 HOUR 48 HOUR 5 DAY ANALYSIS REQUEST OTHER Chris Wabuzoh PROJECT NO: SISD PROJECT NAME: San Landro Street (5520 EAF/5520 BAF) PROJECT LOCATION: Oakland, California COMMENTS EPA 524/E240/8260
EPA 625/E270
CAM - 17 Metals
EPA - Priority Poliutorr
UNIT Metals SAMPLING METHOD MATRIX PRESERVED EPA 601/8010 STEX & MTBE EPA 608/8080 EPA 808/8080 WATER
SOIL
AR
SUIDGE
OTHER
HNO3
KCC
OTHER
OTHER
THY OR Diese! (Total Petroleum SAMPLE LOCATION DATE TIME CV-1 m 7-31 CV-2 CV-3 Am. v 7-31 Am 67460 RECEPTED BY:

NON Ham Hen

RECEMED BY: RELINQUISHED BY: DATE **REMARKS:** Chrus Wabrook 8-1 MOVE SAR MEMISICALLY RELINQUISHED BY: GOOD CONDITION APPROPRIATE
HEAD SPACE ABSENT CONTAINERS TIME DATE TIME PRECEDED BY LABORATORY