

HAZMAT 94 JAN-5 PH 3: 23

January 8, 1994 SCI 820.001

Mr. Brian Oliva Alameda County Health Care Services Agency Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

Quarterly Groundwater Monitoring November 1993 6707 Bay Street Emeryville, California

Dear Mr. Oliva:

This letter records the results of a groundwater monitoring event performed by Subsurface Consultants, Inc. (SCI) at the referenced site in November 1993.

Three underground tanks used to store methyl isobutyl ketone and possibly methyl ethyl ketone were removed from the site in October 1989 by others. Soil and groundwater adjacent to the previous tanks were shown, through studies by others, to have been impacted by past organic chemical releases. Soil vapor extraction and groundwater treatment systems were subsequently installed in 1990 to remediate contaminated soil and groundwater. The treatment systems were in operation till early 1991. Since 1991, no additional remediation has been performed. Treatment system and monitoring well locations are shown on the Attached Site Plan, Plate 1.

Initially, groundwater levels in the four wells were measured. The groundwater level measurements are presented in Table 1. Groundwater surface contours for the November 1993 event are shown on Plate 1.

For this event, Wells 1, 3 and 8 were sampled. Prior to sampling, these wells were purged with a clean disposable bailer until measurements of water pH, conductivity and temperature stabilized. A minimum of 4 well volumes were removed from each well. The purged water was placed in 55 gallon drums and left on-site.

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After the wells had recharged to within 80 percent of the initial volume they were sampled using a pre-cleaned sampling device. The water samples were retained in pre-cleaned containers, placed in an iced cooler, and kept refrigerated until delivery to the analytical laboratory. Chain-of-Custody documents accompanied the samples to the laboratory.

Analytical testing was performed by Curtis & Tompkins, Ltd., a California Department of Health Services certified analytical laboratory for the test performed. The samples were analytically tested for the following.

- 1. Volatile organic chemicals EPA 8240, and
- 2. Oil & grease SMWW 17:5520 E&F

A summary of the current and previous analytical test results are presented in Table 2. Analytical test reports and Chain-of-Custody documents are attached.

Conclusions

The groundwater level data indicate that groundwater flow direction is toward the northwest at a gradient of approximately 2 percent and the water level in the tank area is approximately 0.5 to 1 foot lower than levels previously recorded. This flow direction and gradient remain consistent with previous measurements.

Methyl isobutyl ketone, MIBK (4-methyl-2 pentanone) and oil and grease were detected in Well MW 8 at concentrations of 840 ug/l and 14 mg/l, respectively. No other volatile organic chemicals (EPA 8240) nor oil and grease were detected at concentrations in excess of the analytical detection limits in the wells being monitored. For this reason, it appears that the MIBK contaminant plume is limited to an area immediately adjacent to the previous tanks. The MIBK concentration detected in Well MW-8 is significantly lower than previously detected.

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If you have any questions, please call.

Yours very truly,

Subsurface Consultants, Inc.

R. William Rudolph

Geotechnical Engineer 741 (expires 12/31/96)

MK:RWR:sld

Attachments: Table 1 - Groundwater Elevation Data

Table 2 - Contaminant Concentrations in Groundwater

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

cc: Kirk Jamieson, Pettit & Martin John R. Boos, Pettit & Martin James McClay, Scenic Art - MRCP

Table 1.
Groundwater Elevation Data

<u>Well</u>	<u>Date</u>	TOC Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
MW-1	05/20/93	99.99	10.25	89.74
	06/04/93		11.45	88.54
	08/25/93		11.20	88.79
	11/18/93		11.65	88.34
MW-3	05/20/93	99.46	8.55	90.91
	06/04/93		9.36	90.10
	08/25/93		9.42	90.04
	11/18/93		10.03	89.43
MW-7	06/04/93	99.74	12.67	87.07
	08/25/93		12.44	87.30
	11/18/93		13.13	86.61
NW-8	05/20/93	100.10	9.55	90.55
_	06/04/93		10.81	89.29
	08/25/93		10.93	89.17
	11/18/93		11.72	88.38

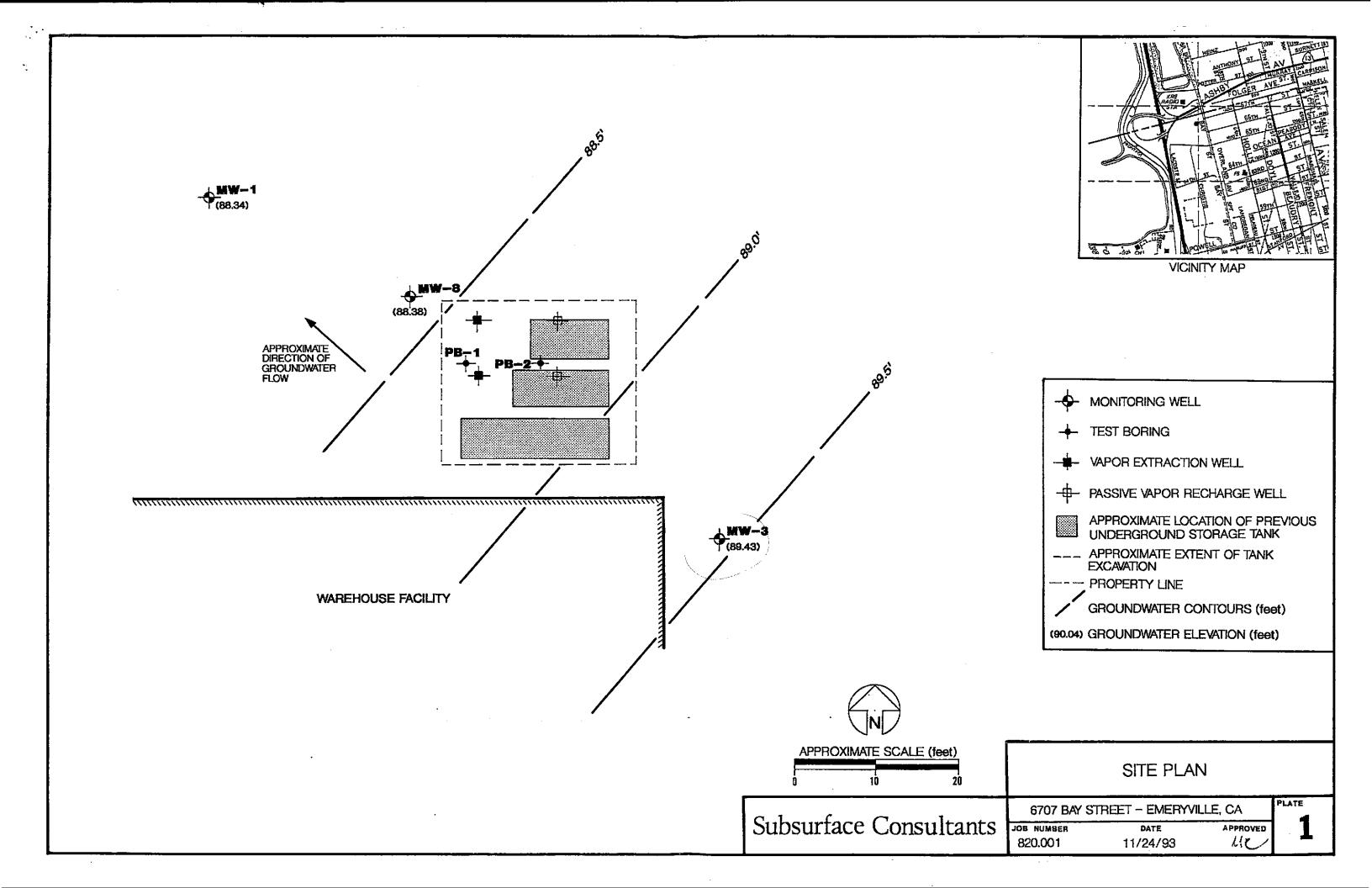
Elevation reference: Building corner is assumed to be at elevation 100.00 feet

Table 2. Contaminant Concentrations in Groundwater

<u>Well</u>	<u>Date</u>	Oil & Grease (mg/l) ¹	4-Methyl- 2 Pentanone (ug/1) ²	Vinyl Chloride (ug/l)	Acetone (uq/1)	2-Butanone (ug/1)	4- Methyl-2 Pentanol (uq/l)	Benzene (uq/l)		Bis (2-Ethyl Hexyl) Phthalate (ug/l)	Other Organic Chemicals (ug/l)
MW1	07/06/89	3	NR ⁴	<0.3	NR	NR	NR	<0.3	<0.3	4	ND ⁵
	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	40	ND
	01/10/90		NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91		<10	<10	<20	<20	NR	7	8		ND
	05/20/93	<5	<10	<10	<20	<10	NR	<5	<5		ND
	08/25/93	<5	<10	<10	<20	<10	NR	<5	<5	==	ND
	11/18/93	<5	<10	<10	<40	<10	ND	<5	<5		ND
EWM	09/07/89	<10	<20	<4	<20	<20	NR	<2	<2	80	ND
	01/10/90		NR	<30	NR	NR	NR	<5	<5	<100	ND
	09/07/91		<10	<10	<20	<20	NR	<5	<5		ND
	05/20/93	<5	<10	<10	<20	<10	NR	<5	<5		ND
	08/25/93	<5	<10	<10	<20	<10	NR	<5	<5		ND
	11/18/93	<5	<10	<10	<20	<10	NR	<5	<5		ND
8WM	01/10/90		160,000	<6,000	NR	NR	NR	2,100	<1,000	<100	ND
	12/10/90		47,0006	<150	3,2006	10,0006	130,0	00 ⁶ 160	<25		ND
	09/05/91		150,000	<10,000	<5,000	<20,000	NR	<10,000	<10,000		ND
	05/20/93	<5	100,000		<10,000	<5,000	NR	<3,000	<3,000		ND
	08/25/93	<u> </u>	48,000	<3,000	<5,000	<3,000	NR	<1,000	<100		ND
	11/18/93	14	840	<50	<100	<50	NR	<25	<25		ND

Milligrams per liter
Micrograms per liter
Test not requested

Not reported
Not detected above reporting limits
Tentatively identified compound concentrations



ANALYTICAL REPORT

Prepared for:

Subsurface Consultants 171 12th Street Suite 201 Oakland, CA 94608

Date: 30-NOV-93

Lab Job Number: 113251 Project ID: 820.001

Location: 6707 Bay St.

Reviewed by:

Reviewed by:

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LABORATORY NUMBER: 113251-01 DATE SAMPLED: 11/18/93 CLIENT: SUBSURFACE CONSULTANTS DATE RECEIVED: 11/18/93 PROJECT ID: 80.001 DATE ANALYZED: 11/24/93 LOCATION: 6707 BAY ST. DATE REPORTED: 11/30/93

SAMPLE ID: MW-1

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ЙĎ	10)
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	40
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5
<u></u>		-

1,2-Dichloroethane-d4	103	%
Toluene-d8	107	8
Bromofluorobenzene	102	8



LABORATORY NUMBER: 113251-02

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 80.001

LOCATION: 6707 BAY ST.

DATE SAMPLED: 11/18/93

DATE RECEIVED: 11/18/93

DATE ANALYZED: 11/24/93

DATE REPORTED: 11/30/93

SAMPLE ID: MW-3

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

1,2-Dichloroethane-d4	104 %
Toluene-d8	102 %
Bromofluorobenzene	99 %



LABORATORY NUMBER: 113251-03

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 80.001

LOCATION: 6707 BAY ST.

DATE SAMPLED: 11/18/93

DATE RECEIVED: 11/18/93

DATE ANALYZED: 11/24/93

DATE REPORTED: 11/30/93

SAMPLE ID: MW-8

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Resultug/L	
Chloromethane	ND	50
Bromomethane	ND	50
Vinyl chloride	ND	50
Chloroethane	ND	50
Methylene chloride	ND	100
Acetone	ND	100
Carbon disulfide	ND	25
Trichlorofluoromethane	ND	25
1,1-Dichloroethene	ND	25
1,1-Dichloroethane	ND	25
trans-1,2-Dichloroethene	ND	25
cis-1,2-Dichloroethene	ND	25
Chloroform	ND	25
Freon 113	ND	25
1,2-Dichloroethane	ND	25
2-Butanone	ND	50
1,1,1-Trichloroethane	ND	25
Carbon tetrachloride	ND	25
Vinyl acetate	ND	250
Bromodichloromethane	ND	25
1,2-Dichloropropane	ND	25
cis-1,3-Dichloropropene	ND	25
Trichloroethene	ND	25
Dibromochloromethane	ND	25
1,1,2-Trichloroethane	ND	25
Benzene	ND	25
trans-1,3-Dichloropropene	ND	25
Bromoform	ND	25
2-Hexanone	ND	50
4-Methyl-2-pentanone		840 50
1,1,2,2-Tetrachloroethane	ND	25
Tetrachloroethene	ND	25
Toluene	ND	25
Chlorobenzene	ND	25
Ethyl benzene	ND	25
Styrene	ND	25
Total xylenes	ИD	25

1,2-Dichloroethane-d4	107 %
Toluene-d8	96 %
Bromofluorobenzene	94 %



LABORATORY NUMBER: 113251

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 80.001 LOCATION: 6707 BAY ST. SAMPLE ID: METHOD BLANK DATE ANALYZED: 11/23/93 DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ЙĎ	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	- 5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane		8 5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	` 5
Styrene	ND	5
Total xylenes	ND	5

1,2-Dichloroethane-d4	100 %	
Toluene-d8	100 %	
Bromofluorobenzene	105 %	



LABORATORY NUMBER: 113251

CLIENT: SUBSURFACE CONSULTANTS

PROJECT ID: 80.001 LOCATION: 6707 BAY ST. SAMPLE ID: METHOD BLANK DATE ANALYZED: 11/24/93 DATE REPORTED: 11/30/93

EPA METHOD 8240: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Reporting Limit (ug/L)
Chloromethane	ÑD	10
Bromomethane	ND	10
Vinyl chloride	ND	10
Chloroethane	ND	10
Methylene chloride	ND	20
Acetone	ND	20
Carbon disulfide	ND	5
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
trans-1,2-Dichloroethene	ND	5
cis-1,2-Dichloroethene	ND	5
Chloroform	ND	5
Freon 113	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon tetrachloride	ND	5
Vinyl acetate	ND	50
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5 5
trans-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10
4-Methyl-2-pentanone	ND	10
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethyl benzene	ND	5
Styrene	ND	5
Total xylenes	ND	5

1,2-Dichloroethane-d4	106 %
Toluene-d8	103 %
Bromofluorobenzene	98 %

Curtis & Tompkins, Ltd

Curtis & Tompkins, Ltd.

MS/MSD Report

Matrix Sample Number: 113224-001

Lab No: QC53042 QC53043

Matrix: WATER

Batch No: 11584 939416

939417 939411 Date Analyzed:

24-NOV-93

Spike File: >BKN17 Spike Dup File: >BKN18

Analyst: CW

	Instrdg	SpikeAmt	% Rec	Limits
MS RESULTS				
1,1-Dichloroethene	51.62	50	700 %	~ · · · · ·
Trichloroethene	54.89	50	100 %	61-145%
Benzene	54.45	50	110 %	71-120%
Toluene	55.56	50	102 %	
Chlorobenzene	53.21	50	92 % 106 %	76-125% 75-130%
Surrogato Dogani			100 0	75-150%
Surrogate Recoveries				
1,2-Dichloroethane-d4 Toluene-d8	49.66	50	99 %	76-114%
Bromofluorobenzene	52.86	50	106 %	
bromorruorobenzene	50.82	50	102 %	86-115%
MSD RESULTS				
1,1-Dichloroethene				
Trichloroethene	47.43	50	92 %	61-145%
Benzene	51.76	50	104 %	71-120%
Toluene	53.28	50	100 %	
Chlorobenzene	54.71	50	90 %	
Chioropenzene	51.02	50	102 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	48.45	C 0		
Toluene-d8	50.8	50	97 %	76-114%
Bromofluorobenzene		50	102 %	
	47.95	50	96 %	86-115%
MATRIX RESULTS				
1,1-Dichloroethene	1.45			
Trichloroethene	0			
Benzene	3.48			
Toluene	9.81			
Chlorobenzene	0			
RPD DATA				
1,1-Dichloroethene	8 %			< 14%
Trichloroethene	6 %			< 14%
Benzene	2 %			< 11%
Coluene	2 %			
Chlorobenzene	4 %			< 13%
	- •			< 13%

Results within Specifications - PASS Cw U/24/93



< 13%

MS/MSD Report

Matrix Sample Number: 113289-006

Lab No: QC53117 QC53118

Matrix: WATER

Batch No: 11605 939439 939440 939436 Analyst: CK

Date Analyzed:

24-NOV-93

Spike File: Spike Dup File: >BK014

>BKO13

MS RESULTS	Instrdg	SpikeAmt		
			% Rec	Limits
1,1-Dichloroethene				
Trichloroethene	42.34	50	85 %	61-145%
Benzene	48.33	50	97 %	· —
Toluene	49.39	50	97 %	
Chlorobenzene	46.27	50	93 %	
	50.29	50	100 %	123
Surrogate Recoveries			200 8	12-T208
1,2-Dichloroethane-d4				
Toluene-d8	52.31	50	105 %	76 1140
Bromofluorobenzene	49.97	50	100 %	
encildoropenzene	51.04	50	102 %	88-110%
			102 3	86-115%
MSD RESULTS				
1.1-Dichlers-H				
1,1-Dichloroethene Trichloroethene	43.21	50	86 %	en
Benzene	50.4	50	101 %	61-145%
Toluene	51.08	50		71-120%
	47.12	50	100 왕 94 왕	76-127%
Chlorobenzene	50.63	50		
Carrer a mark		-	100 %	75-130%
Surrogate Recoveries				
1,2-Dichloroethane-d4	53.88	50		
rorgeue-48	52.02	50	108 %	76-114%
Bromofluorobenzene	50.78	50	104 %	88-110%
	-00,0	50	102 %	86 - 115%
MATRIX RESULTS				
1,1-Dichloroethene	0			
richloroethene	Ô			•
Benzene	.891			
Coluene	0			
hlorobenzene	•			
	.482			
PD DATA				
,1-Dichloroethene	7 %			
richioroethene	2 %			< 14%
enzene	4 %			< 14%
- 1	3 %			
oluene hlorobenzene	2 %			< 11%



Laboratory Login Number: 113251 Client: Subsurface Consultants

Report Date: 30 November 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) METHOD: SMWW 17:5520BF

Lab ID	Sample ID	Matrix	Sampled	Received	Analyzed	Result	Units	RL	Analyst	QC Batc
113251-001	MU-1	Water	18-NOV-93	18-NOV-93	18-NOV-93	ND	mg/L	5	TR	1154
113251-002	Mu-3	Water	18-NOV-93	18-NOV-93	18-NOV-93	ND	mg/L	5	TR	1154
113251-003	MJ-8	Water	18-NOV-93	18-NOV-93	18-NOV-93	14.	mg/L	5	TR	1154

ND = Not Detected at or above Reporting Limit (RL).



QC Batch Report

Client:

Subsurface Consultants

Laboratory Login Number: 113251

Report Date:

30 November 93

ANALYSIS: Hydrocarbon Oil & Grease (Gravimetric) QC Batch Number: 11545

Blank Results

Sample ID Result MDL Units Method Date Analyzed

mg/L SMWW 17:5520BF 18-NOV-93 BLANK ND 5

Spike/Duplicate Results

Sample ID Recovery Method Date Analyzed

_____ 1/:5520BF SMWW 17:5520BF BS 86% 18-NOV-93

18-NOV-93 BSD 888

Control Limits

87% 80% - 120% Average Spike Recovery Average Spike Recovery 87% Relative Percent Difference 2.4%

< 20%

CHAIN OF C	USTODY FOF	IM																							PA	GΕ		1		OF	<u> </u>		
CHAIN OF C				,																							ANA	LYSI	S RE	QUE	STEC)]/
PROJECT NAME: JOB NUMBER:	Bay St 820,00 OT: Mark Charles	re. 1 Ke	e 7	tin 1	60	v l			 _ L/ _ T!	AB; URN		 AUC	ے د ND:		/)'s	N	<u> </u>	C. sa	<u>p</u> !	(- ₎ {	И.,												¢'
SAMPLED BY:	Cherles	j.	29	<u> </u>		3			_, R	EQL	JEST	ΓED	B)	/: _			M	K							200	5				1			
	sci	MATRIX					,	CONT	AINE	ns				ETHOD SERVED		SAMPLING DATE							7										
LABORATORY 1.D. NUMBER	SAMPLE NUMBER	WATER	SOIL	WASTE	AIR		VOA	LTER PINIT	7UBE		Ç	12004	S S I		NONE	МС	нтис	DAY	YE	AR		TIM	E	NOTES	/ 0	(A)							
	MW-1	X X					4 7	7			1	/ 		<i>χ</i>	1_	1	1	18	9	$\overline{}$				-	1	1	-		_	-			
	ми-8	X					4				\ <u>\</u>		- -	1	-	1	}	18	9	7	 		_				-			- - -			_
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RELEASED BY: (Sig	nature) DATI	E / TII	ME	'	RECE	IVED	BY: (S	Signat	ure)					/ TIM	** 1			ub															
RELEASED BY: (Sig	gnature) DAT	E/TI	ME	1	RECE	IVED	BY: (S	Signal	ure)			DA	ATE	/ TIN	1E		17	/1 12TH	1 ST	REE (51	ET, S (0) 2	68-0	E 20 0461	1, C	AX:	LAN 510	ID, 0 -268	CALIF -013	FORI 7	NIA 1	3460	7	