### BASELINE

COPY

#### ENVIRONMENTAL CONSULTING

13 July 1995 93333-B0

Mr. Andrew Clark-Clough City of Oakland Office of Public Works Environmental Affairs Division 1333 Broadway, Suite 330 Oakland, CA 94612

Subject: Groundwater Monitoring Event at the City of Oakland, Municipal Service Center, 7101 Edgewater Drive - April 1995

#### Dear Andrew:

This letter documents the groundwater monitoring activities performed by BASELINE at the Municipal Service Center (MSC) in April 1995 (Figure 1). Mr. Michael McGuire of Woodward Clyde Consultants authorized BASELINE to perform the tasks of redeveloping and sampling the five groundwater monitoring wells at the MSC. The approximate locations of the wells are shown in Figure 2. A survey to determine the exact relative location and elevation of the wells is underway. All field work was performed by a BASELINE geologist. Detailed procedures for well redevelopment and sampling and the analytical results are described below.

#### Well Redevelopment

Groundwater monitoring wells MW-1, MW-2, MW-5, MW-6, and MW-7 were redeveloped on 14 and 17 April 1995. Redevelopment procedures consisted of the following:

- Monitored vapor in well casing using an HNu instrument upon opening well cap.
- Measured product/water level in the well from top of casing using dual-interface probe.
- Surge blocked well.
- Pumped groundwater using double diaphragm pump and new disposal hose into wellspecific 55-gallon drum until the water was clear.
- Monitored conductivity and pH of pumped groundwater during development.
- Recorded activities on well development logs.
- Decontaminated surge block and dual-interface probe by washing in TSP solution and rinsing with DI water.

Emeryville Petaluma San Francisco

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Well development logs are provided in Attachment A. Unusual observations were noted for MW-1 and MW-6. The groundwater in MW-1 appeared to have been under pressure; the groundwater was rising in the well casing when the water level was measured. A sheen was observed on the dual-interface probe after the water level in MW-6 was measured. Approximately 1.5 gallons of water was removed from the top of the water column in MW-6 at the beginning of pumping. The extracted water appeared to contain petroleum emulsions. A surge block was used in MW-6 after removal of the emulsion-containing water and development was continued.

#### **Groundwater Sampling**

Groundwater samples were collected from the five groundwater monitoring wells on 19 April 1995. Sample bottles were provided by the analytical laboratory. Groundwater sampling forms are provided in Attachment B. Sampling procedures were as follows:

- Monitored vapor in well casing using an HNu instrument upon opening well cap.
- Measured product/water level and total depth of well from top of casing using dualinterface probe; decontaminated probe by washing in TSP solution and rinsing with DI water.
- Purged well using double diaphragm pump and new disposal hosing into a 55-gallon drum.
- Measured temperature, pH, and conductivity of the purged water.
- Purged well of a minimum of 3.5 well volumes and until parameters had stabilized.
- Collected groundwater samples using new disposal PVC bailers after the water level had recovered to at least 97 percent of original level.
- Filled sample bottles for volatile organic analyses using volatile organic compound attachments to minimize turbulence and to prevent air bubbles; filled other sample bottles directly from bottom of bailer.
- Collected duplicate sample from MW-6 (labeled sample MW-6A).
- Submitted trip blank with samples (labeled MW-500).
- Stored labeled sample bottles in plastic cooler with blue ice; samples were picked up by laboratory using chain-of-custody procedures.
- Labeled and secured 55-gallon drums containing purge and decontamination water.

Petroleum odor was noticed during purging of MW-1, MW-5, and MW-6.

#### **Analytical Results**

The analyses performed on each sample is summarized in Table 1. The samples were analyzed by Chromalab, Inc., a state-certified laboratory located in Pleasanton. Analytical results are summarized in Tables 2 and 3. The laboratory report is provided in Attachment C.

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Please contact us if you have any questions regarding the groundwater monitoring activities described in this letter.

Sincerely,

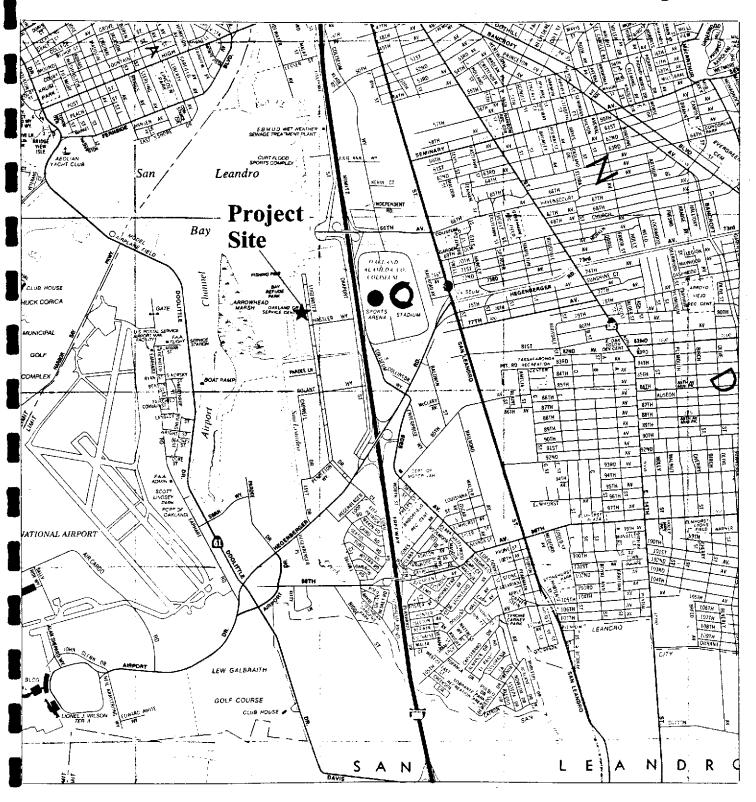
Lydia Huang

Attachments

cc: Mr. Barney Chan, Alameda County Health Services Agency

### **REGIONAL LOCATION**

Figure 1



City of Oakland Municipal Service Center Oakland, California



BASELINE

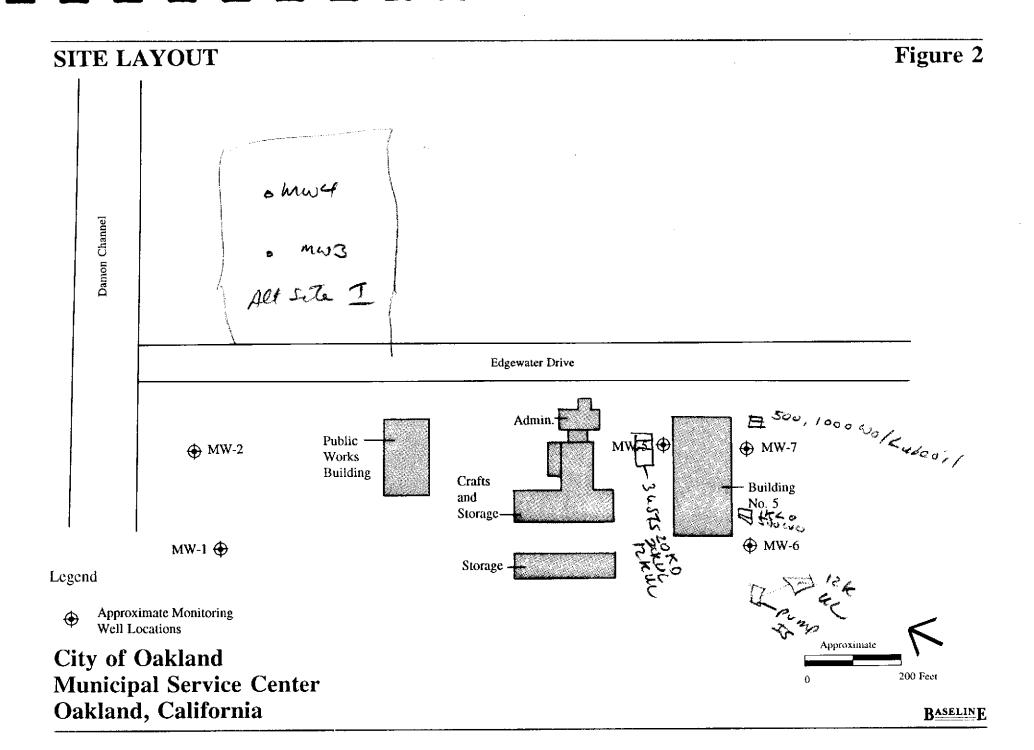


TABLE 1

#### LABORATORY ANALYSES PERFORMED ON GROUNDWATER SAMPLES Oakland Municipal Service Center **April** 1995

	TOTAL PETROLEUM HYDROCARBONS			!	VOLATILE ORGANIC COMPOUNDS		METALS <sup>1</sup>			
Location	Gasoline (5030/8015)	Diesel (3510/8015)	TRPH <sup>2</sup> (418.1)	BTEX <sup>3</sup> (8020)	VOC <sup>4</sup> (8240)	Cadmium (6010)	Chromium (6010)	Lead (6010)	Nickel (6010)	Zinc (6010)
MW-l	1			1				1		
MW-2	1			1		<del></del>		1		
MW-5	1	1	1		1	✓	✓	1	1	1
MW-6	1	1		1				1		
MW-6A	1	1		1				1		
MW-7	1	1	1		1	1	/	✓	1	1
Trip Blank	1			/						

Notes: -- = Not analyzed.

Number shown in parenthesis indicates the EPA method used for analysis.

<sup>&</sup>lt;sup>1</sup> All samples for metals analyses were filtered in the laboratory.
<sup>2</sup> TRPH = Total recoverable petroleum hydrocarbons.

<sup>&</sup>lt;sup>3</sup> BTEX = Benzene, toluene, ethylbenzene, and xylene.

<sup>&</sup>lt;sup>4</sup> VOC = Volatile organic compounds.

#### TABLE 2

# METAL CONCENTRATIONS IN GROUNDWATER Oakland Municipal Service Center April 1995

(mg/L)

Sample	Cadmium	Chromium	Lead	Nickel	Zinc
MW-1			<0.01		
MW-2			0.10		
MW-5	< 0.005	<0.01	<0.01	<0.01	0.02
MW-6 MW-6A			0.41 0.39		
MW-7	0.069	0.07	<0.01	0.08	0.04

Notes:

Groundwater samples were filtered by laboratory prior to analysis.

Analyzed by EPA method 6010.

< x.x = Metal not identified above the laboratory reporting limit of x.x.

Laboratory report is provided in Attachment C.

#### TABLE 3

### PETROLEUM AND ORGANIC COMPOUND CONCENTRATIONS IN GROUNDWATER Oakland Municipal Service Center

#### **April 1995**

(mg/L)

Sample	TPH as Gasoline <sup>1</sup>	TPH as Diesel <sup>2</sup>	TRPH³	Benzene <sup>4</sup>	Toluene <sup>4</sup>	Ethyl Benzene <sup>4</sup>	Xylenes <sup>4</sup>
MW-1	3.2			0.88	0.015	0.023	0.021
MW-2	< 0.05			0.0018	<0.0005	<0.0005	<0.0005
MW-5	14	0.885	4.7	0.49	0.051	0.61	1.2
MW-6 MW-6A	5.7 3.0	6.7 <sup>5</sup> 3.7 <sup>5</sup>	 	0.04 0.31	<0.0008 0.0031	0.0039 0.0027	0.029 0.1
MW-7	< 0.05	<0.05	<1.0	<0.002	< 0.002	<0.002	<0.002
MW-500	< 0.05			<0.0005	< 0.0005	<0.0005	<0.0005

Notes:

TPH = Total Petroleum Hydrocarbons.

TRPH = Total Recoverable Petroleum Hydrocarbons.

 $\langle x.x \rangle$  = Compound not identified above the laboratory reporting limit of x.x.

Laboratory report is provided in Attachment C.

- Analyzed by EPA Method 5030/8015M.
- <sup>2</sup> Analyzed by EPA Method 3510/8015M.
- <sup>3</sup> Analyzed by EPA Method 418.1.
- 4 Analyzed by EPA Method 8020 or 8240.
- Laboratory report indicated sample chromatogram did not resemble chromatogram of any of the petroleum standards. Quantification listed in the table was based on the laboratory's diesel standard.

ATTACHMENT A

Well Development Logs

Project no.:	93333-BO		Well no.:	MW-1		Date: 4-17-95
Project name:	WWC-Oakl	and MSC	Depth of w	ell from TOC (fee	t):	15.80
Location:	7101 Edgew	vater	Well diame	eter (inch):		2
	Oakland, Ca	1	Screened in	nterval from TOC	(feet):	6-16
Recorded by:	WKS		TOC elevat	tion (feet):		
Weather:	Cloudy		Water level from TOC (feet):			4.5 (rising) Time: 11:10
Precip in past	-		Product lev	el from TOC (feet	t):	None Time: 11:10
5 days (inch):	Approx. 0.1	0	Water level	measurement:		Dual-interface probe
FIELD MEAS	Gallons			Recharge:		Water Level from TOC
Time	Removed	Appearan	ce	Time		(feet)
11:14	0	Very turbid		:		
11:24	5	Very turbid	· · · · · · · · · · · · · · · · · · ·	44.00		17.0
11:33	7.5	Very turbid (well ra	n dry)	11:33		15.8
12:38	7.5	(resumed pumping)		12:38		7.4
13:00	9	Very slightly turbid				
13:25	10.5	Clear		:	<del></del>	
13:50	12.5	Clear		!		
		<del> </del>				
			·		<del></del>	
				:		
	<del></del> -					
				:	<u> </u>	
Comments:	Surge block	ed well prior to purgin	ıg. Well hea	d under pressure.		
		head upon opening =				
					·	
Total gallons i	ramovad:	12.5	Average re	charge rate (ft/mir	.).	0.129 feet/minute
Development		rge block, double	_	· ·	1). Drum MV	
11 -		isposable hose.	Number of	_	•	v A
Decontaminat		TSP wash, DI water rins			Drum MV	V-1

			···			
Project no.:	93333-BO		Well no.:	MW-2		Date: 4-17-95
Project name:	WWC-Oakla	nd MSC	Depth of w	ell from TOC (feet):	15.70	
Location:	7101 Edgewa	ater	Well diame	eter (inch):	2	
	Oakland, CA		Screened in	iterval from TOC (fee	t): <u>6-16</u>	
Recorded by:	WKS		TOC elevat	tion (feet):		
Weather:	Overcast		Water level	from TOC (feet):	6.20	Time: 8:50
Precip in past			Product lev	rel from TOC (feet):	None	Time: 8:50
5 days (inch):	Approx. 0.10	)	Water level	l measurement:	Dual-inte	erface probe
FIELD MEAS	SUREMENTS			Recharge:		Water Lavel
<b></b>	Gallons	<b>.</b>		Times		Water Level (feet)
Time	Removed	Appearan	ice	Time		(1001)
8:59	0	Very turbid		NA		
9:08	6	Very turbid				
9:10	7.5	Slightly turbid		·		
Slowed pump	rate down	<u>,,,, , , , , , , , , , , , , , , , , ,</u>				
9:16	10	Very slightly turbid	<u> </u>			
9:25	13	Very slightly turbid		·		
9:48	18	Very slightly turbid	l-clear	<u>:</u>	<u> </u>	
Slowed pump					· · · · · · · · · · · · · · · · · · ·	
10:29	25	Clear		<u> </u>	<u> </u>	<u> </u>
10:55	28.5	Clear				
	·		· · · · · · · · · · · · · · · · · · ·	·		
	<del></del>	<u></u>		<u></u>		<u> </u>
					· · · · · · · · · · · · · · · · · · ·	
<u> </u>					<u></u>	
				<u> </u>	<u> </u>	
Comments:		ed well prior to purgi				
	HNu in well	head upon opening =	= 22 ppm.			
	<u>.</u>					
	·		<del></del>			
Total gallons	removed:	28.5	Average re	echarge rate (ft/min):	NA	
Development	method: Sur	rge block, double	Purged wa	ter disposal: <u>Drui</u>	n MW-2	
diaph	ragm pump, di	sposable hose.	Number of	f drums: 1		
Decontamina	tion method:	TSP wash, DI water rin	se Rinsate dis	sposal: Drui	n MW-2	

WELL DI	LVLLOFI	<u> </u>		····		
Project no.:	93333-BO		Well no.:	MW-5	·	Date: 4-14-95
Project name:	WWC-Oakla	ind MSC	Depth of we	ell from TOC (feet):	14.30	
Location:	7101 Edgew	ater	Well diame	ter (inch):	2	
	Oakland, CA		Screened in	terval from TOC (fee	t): 4-14	
Recorded by:	WKS		TOC elevat	ion (feet):		
Weather:	Sunny		Water level from TOC (feet):		6.10	Time: 14:51
Precip in past			Product lev	el from TOC (feet):	None	Time: 14:51
5 days (inch):	Approx. 0.3		Water level	measurement:	Dual-inte	rface probe
FIELD MEAS	SUREMENTS			Recharge:	-	
	Gallons			necharye.		Water Level
Time	Removed	Appearan	ce	Time		(feet)
		PF	-			` ,
14:58	0.5	Very turbid		NA		<del></del>
15:04	1.5	Turbid				
15:17	3.25	Clear				
15:30	5	Clear				
15:36	6	Clear				
15:41	7	Clear				
	<del></del>				<del> </del>	
l						
	<del></del>					
		· · · · · · · · · · · · · · · · · · ·				
				· · · · · · · · · · · · · · · · · · ·		
Comments:		ed well prior to purgin				
	HNu in well	head upon opening =	20 ppm.			
	<del></del>					
				<del></del>		
Total gallons r	removed:	7	Average rea	charge rate (ft/min):	NA	
-	<del></del>	ge block, double	Purged water	-	1 MW-5	
i —		sposable hose.	Number of			
Decontaminati					1 MW-5	

WALLE DI	VELOFI	YILI I					
Project no.:	93333-BO		Well no.:	MW-6			Date: 4-14-95
Project name:	WWC-Oakla	and MSC	Depth of w	rell from TOC (feet	t): 1	14.30	
Location:	7101 Edgewa	ater	Well diame	•	_	2	
	Oakland, CA		Screened in	nterval from TOC (	(feet):	<b>1</b> -14	
Recorded by:	WKS		TOC elevat	• •	_		
Weather:	Sunny, breez	-y	Water level	Water level from TOC (feet):		7.04	Time: 10:48
Precip in past			Product level from TOC (feet):		· —	7.04 Time: 10:48	
5 days (inch):	Approx. 0.3		Water leve	l measurement:	1	Dual-inte	rface probe
FIELD MEAS	SUREMENTS	;					
				Recharge:			337-4 71
	Gallons						Water Level
Time	Removed	Appearance	ce	Time			(feet)
10:40	0			NA			
10:50	1	Clear with product					
11:30	5	Turbid					
11:50	9	Slightly turbid					
12:40	15	Very slightly turbid		: !			
Reduced pump	p rate						
13:00	16.5	Clear					
13:20	17.5	Clear					
				:			
				<u> </u>		<del></del>	
				:			
						<del> </del>	
				:			
Comments:	Sheen obser	ved on probe. Began	removing sl	heen by lowering I	PVC hose	opening	to just below top of water.
Remo	ved about 1.5	gallons of groundwate	er containin	g product emulsion	ns. Surge	blocked	well prior to continuing
	opment.						
	<del></del>	pon opening = 20 ppm	1.				
	_	. <del></del>			,	<b>NT 4</b>	
Total gallons		17.5	_	echarge rate (ft/mir		NA	
Development		rge block, double	_	-	Drum MW	-0	
		isposable hose.	Number of		I	-	
Decontamina	tion method:	TSP wash, DI water rins	e Rinsate di:	sposal: <u>l</u>	Drum MW	-6	

F						
Project no.:	93333-BO		Well no.:	MW-7		Date: 4-14-95
Project name:	WWC-Oakl	and MSC	Depth of we	ell from TOC (feet):	14.27 (m	easured)
Location:	7101 Edgew	vater	Well diame	ter (inch):	2	
	Oakland, Ca	<u> </u>	Screened in	terval from TOC (feet):	4-14	
Recorded by:	WKS		TOC elevat	ion (feet):		
Weather:	Sunny, bree	zy	Water level	from TOC (feet):	6.86	Time: 13:15
Precip in past			Product leve	el from TOC (feet):	None	Time: 13:15
5 days (inch):	Approx. 0.3		Water level	measurement:	Dual-inte	erface probe
FIELD MEAS	SUREMENTS  Gallons	6		Recharge:		Water Level
   Time	Removed	Ammaaran		Time		(feet)
1 me	Kemoved	Appearan	ce :	1 line		(Icci)
13:36	0			NA		
13:45	1	Very slightly turbid				
13:55	2	Very slightly turbid				
14:07	3.25	Clear				
14:19	5.25	Clear				
14:24	6.5	Clear				
14:30	7.5	Clear		: !		
				. <u> </u>		15_112
	·					
Comments:		ed well prior to purgir				
	HNu in wel	l head upon opening =	22 ppm.			
			<u> </u>			
Total gallons i	removed:	7.5	Average rec	charge rate (ft/min):	NA	
Development	_	rge block, double	Purged water	•	1W-7	
11		isposable hose.	Number of	<del></del>		
Decontaminat		TSP wash, DI water rins	e Rinsate disp	posal: Drum M	1W-7	

### ATTACHMENT B

Groundwater Sampling Forms

Project no.:		93333-BO	Well no.:	MW-1		Date: 4-19-95
Project name		WWC-Oakland MSC			15.8 (measure	
Location:		7101 Edgewater	Well diameter		2	<u> </u>
Location:						
		Oakland, CA		rval from TOC (feet):	0-13.6	
Recorded by:		WKS	TOC elevation			
Weather:		Cloudy	Water level fr	rom TOC (feet):	3.65	Time: <u>7:31</u>
Precip in pas	t		Product level	from TOC (feet):	None Time: <u>7:31</u>	
5 days (inch)	:	Approx. 0.10	Water level m	neasurement:	Dual-interface probe	
VOLUME O	F WATER TO	BE REMOVED BE	FORE SAMP	LING:		,
	[( 15.8 ft) -	$(3.65 \text{ ft})] \times (0.0$	$83   ft)^2 \times 3.1$		Ogallons in one	
	Well depth	Water level Well I	radius		gallons in 5 w	
					7 total gallons r	emoved
CALIBRAT	ION·					
VALIBITAT			Temp		EC	
		<u>Time</u>	(° C)	<u>pH</u>	(µmho/cm)	
Calibr	ation Standard:	7:33	10.0	7.01/10.01	10,000	
F	Before Purging:	7:35	10.0	7.01/10.01	6,500	
	After Purging:	12:40	20.0	6.98/9.86	8,000	
FIELD MEA	SUREMENTS	<b>3</b> :				
				Cumulative		
	Temp		EC	Gallons		
<u>Time</u>	(° C)	<u>pH</u>	(µmho/cm)	Removed	Ē	Appearance
7:41	Start numning	,			Very slightly	turbid with silt
7:41 7:53	Start pumping 15.3	6.86	10,000	1.0	Petroleum od	
8:16	17.5	6.80	7,500	3.0	Clear/petrole	
8:26	17.0	6.85	7,000	4.0	Clear/petrole	
8:38	17.3	6.84	7,600	6.0	Clear/petrole	um odor
8:48	17.1	6.89	7,500	7.0	Clear/petrole	um odor
Pumping rat		0.10 gallons/minute		HNu res	ading in wellhea	
		ter sampling (feet):	4.00/4.33			Time: 13:00 Time: 13:05
Appearance	-	Slightly turbid				Time: 13:03
-	ank number:	N/A		diamagahla basa	<del>_</del> _	m
Purge metho		Double diaphragm pu			TT 1 C- 310	A.c.
Sampling eq		New disposable PVC		_VOC attachment:	Used for VO.	AS
Sample cont		2 VOAs; 1 1-liter pla		T = h = = - +	Chromalab	
Sample anal	-	TPH as gasoline, BT		_Laboratory:		
Decontamin	ation method:	TSP and water, DI w	ater rinse	Rinsate disposal:	Drum MW1	

Project no.:		93333-BO	Well no.:	MW-2		Date: 4-19-95
Project name:		WWC-Oakland MSG	Depth of well:	from TOC (feet):	15.7 (measure	d)
ocation:		7101 Edgewater	Well diameter	(inch):	2	
		Oakland, CA	Screened inter	val from TOC (feet):	6-15.70	
Recorded by:		WKS	TOC elevation	ı (feet):		
Weather:		Cloudy	- Water level fro	om TOC (feet):	6.16	Time: 7:15
Precip in past		Cloday	_	from TOC (feet):	None	Time: 7:15
5 days (inch):		Approx. 0.10	Water level me	, ,	Dual-interface	
OLUME O		BE REMOVED B			5 gallons in one	well volume
		$(6.16 \text{ ft})] \times (-0.9)$			7 gallons in 5 w	
	Well depth	Water level Well	, radius		0 total gallons r	
					<u>-</u>	
CALIBRATI	ON:		_		EC	
		m.	Temp	"TŤ	EC	
A 111	_4; 64 3 4.	<u>Time</u>	( <u>° C)</u> 10.0	<u>pH</u> 7.01/10.01	( <u>µmho/cm)</u> 10,000	
	ation Standard:		10.0	7.01/10.01	6,500	
Þ	Before Purging: After Purging:		20.0	6.98/9.86	8,000	
FIELD MEA	SUREMENTS	3:		Cumulative		
	Temp		EC	Gallons		
<u>Time</u>	(°C)	<u>pH</u>	(umho/cm)	Removed	1	Appearance
	•	•				
	- ·	òr				
12:00	Start pumping			0.05	77 all alaste.	subid/outsbur adar
12:05	18.5	6.27	19,000	2.25		turbid/sulphur odor
12:05 12:18	18.5 18.5	6.27 6.48	20,000	3.5	Clear/sulphu	r odor
12:05 12:18 12:27	18.5 18.5 18.1	6.27 6.48 6.41	20,000 20,000	3.5 4.75	Clear/sulphur Clear/sulphur	r odor r odor
12:05 12:18	18.5 18.5	6.27 6.48	20,000	3.5	Clear/sulphu	r odor r odor
12:05 12:18 12:27	18.5 18.5 18.1	6.27 6.48 6.41	20,000 20,000	3.5 4.75	Clear/sulphur Clear/sulphur	r odor r odor
12:05 12:18 12:27 12:35	18.5 18.5 18.1 18.2	6.27 6.48 6.41	20,000 20,000 20,000	3.5 4.75 6	Clear/sulphur Clear/sulphur	r odor r odor r odor ad (ppm): <u>25</u>
12:05 12:18 12:27 12:35	18.5 18.5 18.1 18.2	6.27 6.48 6.41 6.46	20,000 20,000 20,000	3.5 4.75 6	Clear/sulphur Clear/sulphur Clear/sulphur	r odor r odor r odor ad (ppm): 25 Time: 12:45
12:05 12:18 12:27 12:35	18.5 18.5 18.1 18.2 te:	6.27 6.48 6.41 6.46	20,000 20,000 20,000	3.5 4.75 6	Clear/sulphur Clear/sulphur Clear/sulphur	r odor r odor r odor ad (ppm): 25Time: 12:45Time: 12:46
12:05 12:18 12:27 12:35  Pumping rat Water level: Appearance	18.5 18.5 18.1 18.2 te:	6.27 6.48 6.41 6.46  0.17 gallons/minute fter sampling (feet): Slightly turbid N/A	20,000 20,000 20,000	3.5 4.75 6 HNu rea	Clear/sulphur Clear/sulphur Clear/sulphur	r odor r odor r odor ad (ppm): 25 Time: 12:45
12:05 12:18 12:27 12:35  Pumping rat Water level: Appearance	18.5 18.5 18.1 18.2 te: after purging/af of sample: ank number:	6.27 6.48 6.41 6.46  0.17 gallons/minute fter sampling (feet): Slightly turbid N/A Double diaphragm	20,000 20,000 20,000 20,000	3.5 4.75 6 HNu rea	Clear/sulphur Clear/sulphur Clear/sulphur ading in wellhea	r odor r odor r odor r odor  r odor  r odor  r odor  r odor  12:45  Time: 12:46  Time:
12:05 12:18 12:27 12:35  Pumping rat Water level: Appearance Duplicate/bl	18.5 18.5 18.1 18.2 te: after purging/af of sample: ank number:	6.27 6.48 6.41 6.46  0.17 gallons/minute fter sampling (feet): Slightly turbid N/A Double diaphragm New disposable PV	20,000 20,000 20,000 20,000 6.22/6.23	3.5 4.75 6 HNu rea	Clear/sulphur Clear/sulphur Clear/sulphur	r odor r odor r odor r odor  r odor  ad (ppm): 25     Time: 12:45     Time: 12:46     Time:
12:05 12:18 12:27 12:35  Pumping rat Water level: Appearance Duplicate/bl Purge metho	18.5 18.5 18.1 18.2  te: after purging/af of sample: ank number: od: puipment:	6.27 6.48 6.41 6.46  0.17 gallons/minute fter sampling (feet): Slightly turbid N/A Double diaphragm New disposable PV 2 VOAs; 1 1-liter p	20,000 20,000 20,000 20,000 6.22/6.23 pump with new of the control	3.5 4.75 6  HNu readisposable hose VOC attachment:	Clear/sulphur Clear/sulphur Clear/sulphur ading in wellhea	r odor r odor r odor r odor  r odor  ad (ppm): 25     Time: 12:45     Time: 12:46     Time:
12:05 12:18 12:27 12:35  Pumping rat Water level: Appearance Duplicate/bl Purge metho Sampling eq Sample cont Sample anal	18.5 18.5 18.1 18.2  te: after purging/af of sample: ank number: od: quipment: tainers;	6.27 6.48 6.41 6.46  0.17 gallons/minute fter sampling (feet): Slightly turbid N/A Double diaphragm New disposable PV	20,000 20,000 20,000 20,000  6.22/6.23  pump with new of the control of the contr	3.5 4.75 6 HNu rea	Clear/sulphur Clear/sulphur Clear/sulphur ading in wellhea	r odor r odor r odor r odor  r odor  ad (ppm): 25     Time: 12:45     Time: 12:46     Time:

Project no.:		93333-BO	Well no.:	MW-5	Date: 4-19-95
Project name:		WWC-Oakland MSC	Depth of well	from TOC (fee	t): 14.30 (measured)
Location:		7101 Edgewater	Well diameter	(inch):	2
		Oakland, CA	Screened inter	val from TOC	(feet): 4-14
Recorded by:		WKS	TOC elevation (feet):		
Weather:		Cloudy	Water level fro	om TOC (feet):	6.05 Time: 10:20
Precip in past			Product level	from TOC (feet	): None Time: 10:20
5 days (inch):		Approx. 0.10	Water level m	easurement:	Dual-interface probe
VOLUME OF	WATER TO	BE REMOVED BE	FORE SAMPI	LING:	
		$(6.05 \text{ ft})] \times (0.08)$		× 7.48 =	1.3 gallons in one well volume
	Well depth	Water level Well i	adius	_	6.7 gallons in 5 well volumes
				_	5.0 total gallons removed
CALIBRATIO	ON:				
			Temp		EC
~ 44		<u>Time</u>	(°C)	<u>pH</u>	<u>(μmho/cm)</u> 10,000
	tion Standard:	7:33 7:35	10.0 10.0	7.01/10.01 7.01/10.01	6,500
	efore Purging: After Purging:	7:33 12:40	20.0	6.98/9.86	8,000
•	, 11101 1 m. 55.				,
FIELD MEAS	SUREMENTS	<b>S</b> :			
				Cumulati	
	Temp	**	EC	Gallon	
<u>Time</u>	<u>(° C)</u>	<u>pH</u>	(umho/cm)	Remove	a Appenance
11:12	Start pumping				
11:16	17.8	6.50	7,000		Very slightly turbid-clear/strong petrol. or Clear/strong petroleum odor
11:24	17.8	6.51	6,000	2.75	Clear/strong petroleum odor
11:30	17.7	6.49	6,000 6,000	4 5	Clear/strong petroleum odor
11:38	17.7	6.52	0,000	J	C.C. C.
Pumping rate	<b>:</b> :	0.19 gallons/minute		н	Nu reading in wellhead (ppm): 15
Water level a	fter purging/af	ter sampling (feet):	6.05/6.13 risi	ng	Time: 11:45 AM
Appearance of	-	Clear			Time: 11:46 AM
Duplicate/bla		N/A			Time:
Purge method		Double diaphragm p			
Sampling equ	-	New disposable PVC		_VOC attachm	
Sample conta		4 VOAs; 3 1-liter am			tic bottles Chromalab
Sample analy	/ses:	TPH gas & diesel, T	KPH, 824U, Me	u: Laboratory:	CHIOIHAIAU

Project no.:		3333-BO	Well no.:	MW-6		Date: <u>4-19-95</u>
Project name:		WWC-Oakland MSC	-		14.27 (measur	red)
Location:		7101 Edgewater	Well diameter		2	
Location		Dakland, CA				
	· · · · · · · · · · · · · · · · · · ·			` ′		
Recorded by:		WKS	TOC elevation		Z 01	Time: 0:04
Weather:		Cloudy		om TOC (feet):	6.81	Time: 9:04
Precip in pas	t		Product level from TOC (feet):		None Time: 9:04	
5 days (inch)	: <u></u>	Approx. 0.10	Water level me	easurement:	<u>Dual-interfac</u>	e probe
VOLUME O	E WATER TO	BE REMOVED BE	FORE SAMPL	.ING:		
VOLUME O		$(6.81 \text{ ft})] \times (0.$			2 gallons in one	e well volume
		Water level Well:				
	mon deput				6 total gallons	
CALIBRAT	ION:		Tamn		EC	
		<u>Time</u>	Temp ( <u>° C)</u>	<u>pH</u>	(umho/cm)	1
Caliba	ation Standard:	7:33	10.0	7.01/10.01	10,000	•
	Before Purging:	7:35	10.0	7.01/10.01	6,500	
1	After Purging:	12:40	20.0	6.98/9.86	8,000	
FIELD MEA	ASUREMENTS	:		Cumulative		
	Temp		EC	Gallons		
<u>Time</u>	( <u>° C)</u>	<u>pH</u>	(umho/cm)	Removed	4	Appearance .
• • •	0				Sheen on pur	rge water
9:06	Start pumping	7.38	4,000	1	_	petroleum odor
9:12	16.2 16.5	7.39	3,700	3.75		petroleum odor
9:27		7.39 7.27	3,600	5.73		petroleum odor
9:38 9:46	15.6 16.1	7.34	3,600	6		petroleum odor
2	20.2	-				
Pumping ra		0.15 gallons/minute	. 0.6/2 C.C	HNu re	ading in wellhe	ad (ppm): 15 Time: 15:38
		ior to sampling (feet)	: 6.86/7.35			Time: 15:38
Appearance		Slightly turbid				Time: 15:45
-	lank number:	MW6-A	uma uzith nave	dienocable hose		
Purge metho		Double diaphragm p		VOC attachment:	Used for VC	)As
Sampling ed		New disposable PV	baner			71 20
Sample con				le; 2 1-liter plastic bo Laboratory:	Chromalab	
Sample analyses:		TPH as gas & diese		Rinsate disposal:	Drum MW6	
Decontamination method:		TSP and water, DI v	vater rinse	_ Kilisate disposai:	To min Mi AA ()	

Project no.:		93333-BO	Well no.:	MW-7		Date: 4-19-95					
Project name:		WWC-Oakland MSC	Depth of well	from TOC (feet):	14.3 (measure	ed)					
Location:		7101 Edgewater	Well diameter	r (inch):	2						
_		Oakland, CA	Screened inte	rval from TOC (feet):	4-14						
Recorded by:		WKS	TOC elevation	` ,							
Weather:		Cloudy		,	C 94	Ti 0.26					
		Cloudy		rom TOC (feet):	6.84	Time: 9:36					
Precip in past				from TOC (feet):	None	Time: 9:36					
5 days (inch):		Approx. 0.10	Water level m	leasurement:	Dual-interface	e probe					
VOLUME OF V	VATER TO	BE REMOVED BE	ORE SAMP	LING:							
[(	14.3 ft)	$-(6.84 \text{ ft})] \times (-0.08)$	83 ft) <sup>2</sup> × 3.1	4 × 7.48 = 1.2	gallons in one	well volume					
7	Well depth	Water level Well r	adius	6.0	gallons in 5 w	ell volumes					
				6.5	total gallons r	emoved					
CALIBRATION	j.										
CALIBITATION	J.		Temp		EC						
		<u>Time</u>	(° C)	<u>pH</u>	(umho/cm)						
Calibratio	n Standard:	7:33	10.0	7.01/10.01	10,000						
Befo	re Purging:	7:35	10.0	7.01/10.01	6,500						
Afi	ter Purging:	12:40	20.0	6.98/9.86	8,000						
FIELD MEASU	REMENTS	3:									
				Cumulative							
	Temp		EC	Gallons							
<u>Time</u>	(°C)	<u>pH</u>	(µmho/cm)	Removed	A	ppearance					
10:00 St	art pumping	*									
10:11	art pumping 17,3	6.25	6,500	2.5		Clear					
	educed pum		0,500	2.3		Cicai					
10:28	18.1	6.24	11,000	3.75		Clear					
10:41	18.6	6.28	13,000	5		Clear					
10:48	18.1	6.13	13,000	6		Clear					
10:54	18.2	6.23	12,000	6.5		Clear					
Pumping rate:		0.12 gallons/minute		HNu read	ling in wellhead						
		ior to sampling (feet):_	6.84/7.69	,		Time: 14:10					
Water level after		Clear	<del></del>			Time: 14:15					
Water level after Appearance of sa	-			· · · · · · · · · · · · · · · · · · ·							
Water level after Appearance of sa Duplicate/blank	-	N/A	<u> </u>			I IIIIÇ.					
Water level after Appearance of sa Duplicate/blank Purge method:	number:	N/A Double diaphragm pur				<del></del>					
Water level after Appearance of sa Duplicate/blank: Purge method: Sampling equipn	number:	N/A  Double diaphragm pur  New disposable PVC !	oailer	VOC attachment:	Used for VOA						
Water level after Appearance of sa Duplicate/blank Purge method:	number: nent: rs:	N/A Double diaphragm pur	bailer er glass bottles	VOC attachment: s; 2 1-liter plastic bottl							

ATTACHMENT C

Laboratory Report

Environmental Services (SDB)

RECEIVED

MAY 4 1995

April 20, 1995

Submission #: 9504229

BASELINE ENVIRONMENTAL/EMRYVL

BASELINE

Atten: William Scott

Project: WWC-OAKLAND MSC Project#: 93333-AO

Received: April 19, 1995

6 samples for Lead analysis.

Sampled: April 19, 1995 Method: EPA 3010A M/6010 Matrix: WATER Run#: 6297

Extracted: April 20, 1995

Analyzed: April 20, 1995

spl # CLIENT SMPL ID	LEAD (mq/L )	REPORTING LIMIT (mg/L )	BLANK RESULT (mq/ <u>L</u> )	BLANK SPIKE RESULT (%)
85393 MW-1	N.D.	0.01	N.D.	106
85394 MW-2	0.10	0.01	N.D.	106
85395 MW-5	N.D.	0.01	N.D.	106
85397 MW-6	0.41	0.01	N.D.	106
	N.D.	0.01	N.D.	106
85398 MW-7	0.39	0.01	N.D.	106
85400 MW-6A	0.39	0.01		

Chemist

Inorganic Supervisor

Environmental Services (SDB)

April 26, 1995

Submission #: 9504229

BASELINE ENVIRONMENTAL/EMRYVL

Atten: William Scott

Project: WWC-OAKLAND MSC Received:

April 19, 1995

Project#: 93333-AO

One sample for Metals analysis.

Sample ID: MW-5

Sp1#: 85396 Sampled: April 19, 1995

Method: EPA 3005A M/6010

Extracted: April 25, 1995 Matrix: WATER Run#: 6365

Analyzed: April 26, 1995

ANALYTE	RESULT	REPORTING LIMIT (mg/L )	BLANK RESULT (mg/L )	BLANK SPIKE RESULT (%)
CADMIUM CHROMIUM NICKEL ZINC	N.D. N.D. N.D. 0.02	0.005 0.01 0.01 0.01	N.D. N.D. N.D.	93 99 96 102

Chemist

Inorganic Supervisor

Environmental Services (SDB)

April 26, 1995

Submission #: 9504229

BASELINE ENVIRONMENTAL/EMRYVL

Atten: William Scott

Project: WWC-OAKLAND MSC

Received: April 19, 1995

Project#: 93333-A0

re: One sample for Metals analysis.

Sample ID: MW-7

Sp1#: 85399

Sampled: April 19, 1995

Matrix: WATER Run#: 6365

Extracted: April 25, 1995

Analyzed: April 26, 1995

Method: EPA 3005A M/6010 BLANK SPIKE BLANK REPORTING RESULT RESULT RESULT LIMIT (%) (mg/L ) (mq/L)(mg/L)<u>ANALYTE</u> 93 0.005 <u>0.0</u>69 CADMIUM 99 N.D. 0.01 0.07 CHROMIUM 96 N.D. 0.08 0.01 NICKEL 102 N.D. 0.04 0.01 ZINC

Doina Danet

Chemist

John S. Labash

Inorganic Supervisor

Environmental Services (SDB)

April 25, 1995

Submission #: 9504229

BASELINE ENVIRONMENTAL/EMRYVL

Atten: William Scott

Project: WWC-OAKLAND MSC

Received: April 19, 1995

Project#: 93333-AO

2 samples for Total Recoverable Petroleum Hydrocarbons analysis.

Matrix: WATER Extracted: April 25, 1995 Sampled: April 19, 1995 Run#: 6364 Analyzed: April 25, 1995

Method: EPA 418.1

BLANK SPIKE BLANK REPORTING RESULT LIMIT RESULT TRPH (mq/L)(%) (mq/L)(mg/L)Spl # CLIENT SMPL ID 100 N.D. 1.0 4.7 85395 MW-5 N.D. 100 1.0 N.D. 85398 MW-7

Ali Kharrazi

Environmental Services (SDB)

April 25, 1995

Submission #: 9504229

BASELINE ENVIRONMENTAL/EMRYVL

Atten: William Scott

Project: WWC-OAKLAND MSC Project#: 93333-AO

Received: April 19, 1995

re: One sample for Volatile Organic Compounds analysis.

Sample ID: MW-5

Spl#: 85395 Matrix: WATER

Sampled: April 19, 1995 Run#: 6356 Analyzed: April 24, 1995

Method: EPA 8240/8260

ANALYTE	RESULT	REPORTING LIMIT (ug/L )	BLANK RESULT (ug/L )	BLANK SPIKE RESULT (%)
ACETONE	N.D.	4.0	N.D.	
_ BENZENE	490	10	N.D.	121
BROMODICHLOROMETHANE	N.D.	2.0	N.D.	<del>-</del> -
BROMOFORM	N.D.	2.0	N.D.	<del>-</del> -
BROMOMETHANE	N.D.	2.0	N.D.	- <b>-</b>
METHYL ETHYL KETONE	N.D.	2.0	N.D.	
CARBON TETRACHLORIDE CHLOROBENZENE	N.D.	2.0	N.D.	
CHLOROBENZENE	N.D.	2.0	Ŋ.D.	105
CHLOROETHANE	N.D.	2.0	N.D.	<del>-</del> -
2-CHLOROETHYLVINYL ETHER	N.D.	2.0	N.D.	
CHLOROFORM	N.D.	2.0	N.D.	<b></b>
CHLOROMETHANE	N.D.	2.0	N.D.	<b></b> .
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.	<b></b>
1,1-DICHLOROETHANE	N.D.	2.0	N.D.	
CHLOROMETHANE DIBROMOCHLOROMETHANE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,1-DICHLOROETHENE CIS-1,2-DICHLOROETHENE TRANS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.	119
1,1-DICHLOROETHENE	N.D.	2.0	Ŋ.D.	 113
CIS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.	<b></b>
TRANS-1,2-DICHLOROETHENE	N.D.	2.0 2.0 2.0	N.D.	
TRANS-1,2-DICHLOROETHENE  1,2-DICHLOROPROPANE CIS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE ETHYLBENZENE	N.D. N.D. N.D.	2.0	N.D.	
CIS-1,3-DICHLOROPROPENE	N.D.		N.D.	
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	
		10	N.D.	
2-HEXANONE	N.D.	2.0	N.D. N.D.	_ _ <del>_</del>
METHYLENE CHLORIDE	N.D.	2.0	N.D.	
METHYL ISOBUTYL KETONE	N.D.	2.0	N.D.	
STYRENE	N.D.	2.0 2.0 2.0 2.0	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.	<del>-</del> -
TETRACHLOROETHENE	N.D.	2.0	N.D.	104
TOLUENE	51 N D	2.0	N.D.	
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLOROETHENE	N.D.	2.0	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.	108
TRICHLOROETHENE	N.D.	2.0	N.D.	<del>-</del> -
TRICHLOROFLUOROMETHANE	N.D. N.D.	2.0 2.0 2.0	N.D.	<del>-</del> -
VINYL ACETATE	N.D. N.D.	2.0	N.D.	- <b>-</b>
VINYL CHLORIDE	N.D. 1200	10	N.D.	
TOTAL XYLENES	1200	10	11	

Aaron McMichael

Chemist

Ali Kharrazi Organic Manager

Environmental Services (SDB)

pril 25, 1995

Submission #: 9504229

BASELINE ENVIRONMENTAL/EMRYVL

tten: William Scott

roject: WWC-OAKLAND MSC

Project#: 93333-A0

Received: April 19, 1995

e: One sample for Volatile Organic Compounds analysis.

Sample ID: MW-7

*S*p1#: 85398

Matrix: WATER Run#: 6356

ampled: April 19, 1995 ethod: EPA 8240/8260 Analyzed: April 24, 1995

Method: Bir 0240/0200		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
NALYTE	(ug/L)	(ug/L )	<u>(ug/L)</u>	(%)
ACETONE	N.D.	4.0	N.D.	121
BENZENE	N.D.	2.0	Ŋ.D.	121
ROMODICHLOROMETHANE	N.D.	2.0	N.D.	
ROMOFORM	N.D.	2.0	N.D.	
BROMOMETHANE	N.D.	2.0	N.D. N.D.	
METHYL ETHYL KETONE	N.D.	2.0	N.D.	
ARBON TETRACHLORIDE	N.D.	2.0	N.D.	105
HLOROBENZENE	Ŋ.D.	2.0 2.0	N.D.	±05
CHLOROETHANE	N.D.	2.0	N.D.	<del>-</del> -
2-CHLOROETHYLVINYL ETHER	N.D.	2.0	N.D.	
HLOROFORM	N.D. N.D.	2.0	N.D.	
LOROMETHANE	N.D.	2.0	N.D.	
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.	<del>-</del> -
1,1-DICHLOROETHANE	NT TO	2.0	N.D.	
2-DICHLOROETHANE 1-DICHLOROETHENE CIS-1,2-DICHLOROETHENE TRANS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.	119
TO 1 2 DICHLOROEIRENE	N.D.	2.0	N.D.	- <b>-</b>
TOWNS 1 2 DICHLOROSINGNE	N.D.	2.0	N.D.	
= 2_DICHLOPODPODANE	N.D.	2.0	N.D.	
2-DICHLOROPROPANE IS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	<del></del>
PANS-1 3-DICHLOROPROPENE	N.D.	2.0	N.D.	
ETHYLBENZENE	N.D.	2.0	N.D.	
HEXANONE	N.D.	2.0	N.D.	
THYLENE CHLORIDE	N.D.	2.0	Ŋ.D.	- <del>-</del>
METHYL ISOBUTYL KETONE	N.D.	2.0	Ŋ.D.	<del></del>
STYRENE	N.D.	2.0	Ŋ.D.	<b></b>
1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.	
ETRACHLOROETHENE	** 1 22 1	2.0	N.D.	104
<b>P</b> LUENE	N.D.	2.0	N.D.	T0-1
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.	
★ 1,2-TRICHLOROETHANE	Ŋ.D.	2.0	N.D. N.D.	108
RICHLOROETHENE	N.D.	2.0	N.D.	
RICHLOROFLUOROMETHANE	N.D.	2.0	N.D.	
VINYL ACETATE	N.D.	2.0 2.0	N.D.	<b>-</b> -
WINYL CHLORIDE	N.D.	2.0	N.D.	- <del>-</del>
'DTAL XYLENES	N.D.	2.0	11.2.	

aron McMichael

Chemist

Ali Kharrazi

Environmental Services (SDB)

April 26, 1995

Submission #: 9504229

BASELINE ENVIRONMENTAL/EMRYVL

Atten: William Scott

Project: WWC-OAKLAND MSC

Received: April 19, 1995

Project#: 93333-A0

Project#: 93555 Ro

re: 5 samples for Gasoline and BTEX analysis.

Matrix: WATER

Sampled: April 19, 1995 Run#: 6353

Analyzed: April 25, 1995

Method: EPA 5030/8015M/602/8020

Method: EPA 5030/8015M/60	02/8020			Ethyl	Total
G-1 # GLIDNIN GWDY ID	Gasoline (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Benzene (ug/L)	Xylenes (ug/L)
Spl # CLIENT SMPL ID	3 3	000	1 5	23	21
85393 MW-1 Note: GAS DET.LIMI	T=.25mg/L,1	STEX DET.L1	MIT=2.5ug/L		
85394 MW-2	N.D.	1.8	N.D.	N.D.	N.D.
05007 107 6	E 7	40	N.D.	3.9	29
Note CAS DET LIMI	T=.08ma/L.1	BTĒX DET.L1	MIT=.8ug/L		
85400 MW-6A	3 0	310	3.1	2.7	100
85400 MW-6A Note: GAS DET.LIMI	T=.17ma/L,1	BTEX DET.L1	IMIT=1.7ug/L		
85401 MW-500	N.D.	N.D.	N.D.	N.D.	N.D.
Reporting Limits	0.05	0.5	0.5	0.5	0.5
Blank Result	N.D.	N.D.	N.D.	N.D.	N.D.
			110	99	108
Blank Spike Result (%)	111	94	110	J J	200

Jack Kelly Chemist Ali Kharrazi

Environmental Services (SDB)

April 26, 1995

Submission #: 9504229

BASELINE ENVIRONMENTAL/EMRYVL

Atten: William Scott

WWC-OAKLAND MSC Project:

April 19, 1995 Received:

Project#: 93333-AO

4 samples for Diesel analysis.

Matrix: WATER

Extracted: April 20, 1995 Analyzed: April 20, 1995

Run#: 6324 Sampled: April 19, 1995

Method: EPA 3510/8015M

BLANK SPIKE BLANK REPORTING RESULT RESULT LIMIT DIESEL (%) (ug/L\_)

pl # CLIENT SMPL ID *85397* MW-6

(ug/L ) (ug/L)N.D. 500 N.D.

Note: Compounds in the Diesel range do not match any of our petroleum hydrocarbon standard profiles. Compared to our Diesel standard,

amount is 6700 ug/L.

85398 MW-7

N.D.

50

N.D.

75

Sampled: April 19, 1995

Matrix: WATER

Extracted: April 20, 1995

Run#: 6324

Analyzed: April 24, 1995

Method: EPA 3510/8015M

Spl # CLIENT SMPL ID 85395 MW-5

LIMIT DIESEL

RESULT RESULT (%)

BLANK BLANK SPIKE

(ug/L\_) (ug/L ) (uq/L N.D. N.D. 50 Note: Compounds in the Diesel range do not match any of our petroleum

REPORTING

hydrocarbon standard profiles. Compared to our Diesel standard, amount is 880 ug/L.

85400 MW-6A

N.D. 250

Note: Compounds in the Diesel range do not match any of our petroleum hydrocarbon standard profiles. Compared to our Diesel standard,

amount is 3700 ug/L.

Siniat Chullaborn

Sirirat (Sindy) Chullakorn

Chemist

Ali Kharrazi

Environmental Services (SDB)

April 26, 1995

Submission #: 9504229

BASELINE ENVIRONMENTAL/EMRYVL

Atten: William Scott

Project: WWC-OAKLAND MSC

Received: April 19, 1995

Project#: 93333-A0

re: 2 samples for Gasoline analysis.

Matrix: WATER

Run#: 6350

Analyzed: April 24, 1995

Sampled: April 19, 1995 Method: EPA 5030/8015M

Spl #	CLIENT	SMPL ID	GASOLINE (mg/L )	REPORTING LIMIT (mg/L )	BLANK RESULT (mg/L )	BLANK SPIKE RESULT (%)
85395	MW-5		14	4	N.D.	111
<b>8</b> 5398	Note:	GASOLINE	DET.LIMIT IS 4mg/L N.D.	DUE TO DILUTION 0.05	N N.D.	111

Carlo

Jack Kelly Chemist Ali Kharrazi Organic Manager CHROMALAB, INC. SAMPLE RECEIPT CHECKLIST

SAMPIN RICE	IPI CHICKEISI
Client Name BASTUNE	Datie/Time Regaived 4/19/95 16:15
Project	Received by 1- Soll Sate / Time
Reference/Subm # 21802/7504229	Carrier name
Checklist Completed 4/20/95  by: Signature J Date	Logged in by TA 4/9/95 Matrix H2O Initials / Date
Shipping container in good condition?	NA Yes No
Custody seals present on shipping contain	er? Intact Broken Yes No
Custody seals on sample bottles?	Intact Broken YesNo
Chain of custody present?	Yes_\No
Chain of custody signed when relinquished	and received? YesNo
Chain of custody agrees with sample labels	87 YesNo
Samples in proper container/bottle?	YesNo
Samples intact?	Yes_\_No
Sufficient sample volume for indicated ter	st? YesNo
VOA vials have zero headspace?	· NAYesNO
Trip Blank received?	NAYesNo_V
All samples received within holding time?	Yes_V No
Container temperature? 500	
pH upon receiptpH adjusted < 2	Check performed by:NA
Any NO response must be detailed in the applicable, they should be marked NA.	comments section below. If items are not
Client contacted?	Date contacted?
Person contacted?	Contacted by?
Regarding?	
Comments:	
Corrective Actions	
	:
	SMPLRECD.CK

229 |85393-85401 CHAIN

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
(510) 470-8686

SURH J. 0104229 DAT: PM

OUE: 04/26/95

REF #:21562

around Time

Standard Chramolats

LINE Contact Person

510) 420-8686  Project No.  93333-A0  Samplers: (Signature)	Project Name WWC - Oc 7/0  Ed	and Location Letterd L	on 45c Driv			Ani Xi	ilysis (S/08) H	4. Diesel (Soll)	4 (4/4 )	(EPA (747))	7 797	18 CL CA 11.3	Baric Gas	(8240) V m						
Sample ID No. Station	Date	Time	Media	Depth	No. of Contain- ers	Toff as	語歌	Oil & Gre	IRP	100	Filtered 5	,	161. N. C. O.						Remarks/ Composite	Detec- tion Limits
MW-1 MW-2 MW-5 MW-6 MW-7 MW-6A MW-500	4-19-95 4-19-95 4-19-95	13:40 14:45 13:45	water water water water water water		3 9 5 9 5 2	X	× × × ×	X X X	X	× × × ×	X		X	E C	LV		uT	S		
Relinquished by: (Signature)    Date / Time   Received by:			(Sign	Lol.				41.	-19-	e /	16:1	15	Condi Labor Rema	atory:	I Samp	ples Upon Arriva	al at			