A·C·C
ENVIRONMENTAL
CONSULTANTS

August 17, 2001

1089

Alameda County
MAY 06 2003
Environmental Health

Mr. Kelly Engineer
1791 Pine Street
Concord, California 94520

RE: Groundwater Sampling Letter Report
3820 San Leandro Street, Oakland, California
ACC Project No. 00-6651-001.00

Dear Mr. Engineer:

ACC Environmental Consultants, Inc., (ACC) has prepared this letter report to document results of groundwater sampling at 3820 San Leandro Street, Oakland, California (Site). The project objectives were to obtain groundwater samples from three onsite monitoring wells, analyze the water samples for constituents of concern, and report the findings.

On your behalf, ACC will forward a copy of this report to Mr. Barney Chan of the Alameda County Health Care Services Agency (ACHCSA) for review.

BACKGROUND

The Site consists of a gasoline and diesel fueling station (Guy's Diesel) located at 3820 San Leandro Street in Oakland, California (Figure 1). In his letter dated June 12, 2000, Mr. Chan of the ACHCSA requested that groundwater monitoring and sampling be performed at the Site, and that the groundwater samples be analyzed for total petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd), benzene, toluene, ethylbenzene and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE). In addition, one groundwater sample was analyzed for all fuel oxygenates in accordance with regulations recently enacted by the Regional Water Quality Control Board (RWQCB).

ACC received well elevations from the ACHCSA and used them to calculate past and current groundwater flow directions and gradients. This information is summarized in Tables 1 and 2.

FIELD PROCEDURES

Groundwater Sampling

ACC performed groundwater sampling at the Site on July 17, 2001. The locations of the three monitoring wells are illustrated on Figure 2. Prior to groundwater sampling, the depth to the surface of the water table in each well was measured from the top of the well casing using an electronic water level meter. The water level measurements were recorded to the nearest 0.01 foot. The wells were constructed of 2-inch diameter polyvinyl chloride (PVC) with locked well caps, and appeared to be in good condition. The total depth of each of the wells was approximately 20 feet below ground

(bgs), and the depth to groundwater was measured to be approximately 11 feet below the top of the well casing.

TABLE 1 - GROUNDWATER DEPTH INFORMATION

Well No.	Well Elevation* (above MSL)	Date Measured	Depth to Groundwater	Groundwater Elevation
MW-1	27.54	07/06/98**	7.77	19.77
		09/10/00	N/A	N/A
		04/10/01	7.34	20.20
		07/17/01	9.00	19.54
MW-2	25.97	07/06/98**	8.15	17.82
		09/10/00	N/A	N/A
		04/10/01	7.32	18.65
		07/17/01	8.96	17.01
MW-3	26.52	07/06/98**	8.42	18.10
		09/10/00	N/A	N/A
		04/10/01	7.73	18.79
		07/17/01	8.42	18.10

Notes: All measurements in feet
**Well elevation measured to top of casing*
***Groundwater elevations recorded by BACE Environmental*

Groundwater Gradient

ACC feels there was some speculation in the groundwater elevations that were calculated from data collected from the wells on July 17, 2001. The calculated groundwater flow direction and gradient values are east at 0.020 feet per feet. Historic values are summarized in Table 2.

TABLE 2 - GROUNDWATER GRADIENT AND FLOW DIRECTION

Date Monitored	Gradient (foot/foot)	Direction
07/06/98	0.04	South
09/10/00	N/A	N/A
04/10/01	0.038	South
07/17/01	0.020	East

Notes: N/A = Gradient not measured during this sampling event due to insufficient data.

After water level measurements were collected, wells MW-1, MW-2 and MW-3 were purged by hand using a designated disposable polyethylene bailer for each well. The wells were considered to be purged when approximately four volumes were removed from each well. The removed purge water was stored onsite in a steel 55-gallon drum.

After the groundwater level had recovered to a minimum of approximately 80 percent of its static level in wells MW-1 and MW-2 and 60 percent in well MW-3, water samples were obtained using designated disposable polyethylene bailers. Three 40-milliliter VOA vials and two amber glass liter were filled to overflowing with the water collected from the three wells. The samples were preserved in a pre-chilled, insulated container and submitted to STL Chromalab, Inc. (Chromalab), a state-certified analytical laboratory, following chain of custody protocol.

Analytical Results

Groundwater samples from wells MW-1, MW-2 and MW-3 were submitted to Chromalab for analysis of TPHg, TPHd, BTEX, and MTBE.

Analytical results from the groundwater samples are summarized in Table 3. Copies of the analytical results and chain of custody record are attached.

TABLE 3 - GROUNDWATER SAMPLE ANALYTICAL RESULTS
PETROLEUM HYDROCARBONS

Sample ID	Date	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-1	07/06/98	4,100	<100	36	53	<5.0	20	80
	09/10/00	1,000[g]	1,800[ndp]	4.8	<0.50	6.2	1.2	<5.0
	04/10/01	1,100	N/A	12	7.7	<2.5	<2.5	73
	07/17/01	920	320[ndp]	6.2	1.1	<0.50	<0.50	49
MW-2	07/06/98	3,400	<100	190	14	13	12	210
	09/10/00	760[g]	270[edr]	19	<0.50	<0.50	<0.50	110
	04/10/01	320	N/A	3.6	1.1	1.2	0.79	<5.0
	07/17/01	440[g]	68[ndp]	6.0	<0.50	6.2	<0.50	<5.0
MW-3	07/06/98	36,000	<100	6,700	72	6.2	530	13,000
	09/10/00	20,000[g]	4,200[ndp]	9,200	70	710	79	6,400
	04/10/01	15,000	N/A	4,500	27	320	140	8,800
	07/17/01	28,000[g]	8,000[ndp]	7,000	<50	270	75	15,000

Notes: µg/L = micrograms per liter (approximately equivalent to parts per billion)
< Indicates the sample tested below the indicated laboratory reporting limit
g = hydrocarbon reported does not match the laboratory's gasoline standard
edr = hydrocarbon is in the early diesel range and does not match the laboratory's diesel standard
ndp = hydrocarbon reported does not match the laboratory diesel standard
N/A = sample not analyzed for this constituent

DISCUSSION

This investigation was performed to determine if groundwater at the Site has been impacted by a former release from the onsite USTs. The groundwater sample from well MW-3 reported the highest concentrations of petroleum hydrocarbons and related constituents, with 20,000 parts per billion (ppb) TPHg and 9,200 ppb benzene. TPHd was reported at a concentration of 4,200 ppb in the sample from well MW-3, and MTBE was reported at 10,000 ppb. Concentrations of constituents of concern were significantly less in wells MW-1 an MW-2, indicating that the release(s) may be localized in the vicinity of well MW-3. Low concentrations of BTEX constituents relative to the TPHg concentration suggest a recent release. No fuel oxygenates other than MTBE were detected above laboratory reporting limits.

CONCLUSIONS

Based on groundwater sample analytical results, ACC has made the following conclusions:

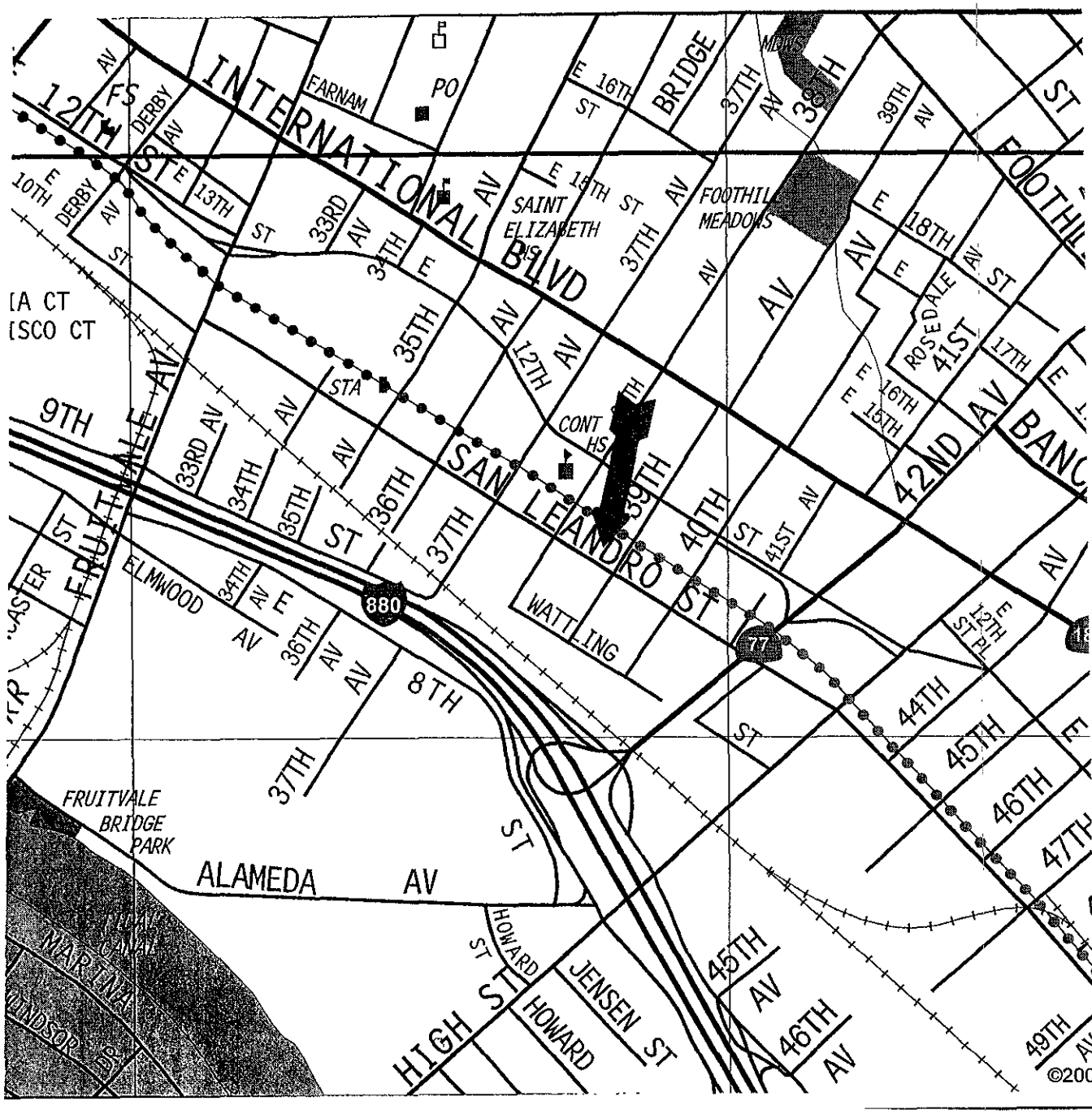
- Groundwater at the Site has been impacted by a past release(s) of petroleum hydrocarbons as TPHg, TPHd, BTEX, and MTBE;
- The majority of impacted groundwater appears to be located in the vicinity of well MW-3; and
- No fuel oxygenates other than MTBE were detected above laboratory reporting limits.

If you have any questions regarding this report or the findings of the work, please contact me at (510) 638-8400, extension 109.

Sincerely,

David R. DeMent, RG, REA II
Environmental Division Manager

cc: Mr. Barney Chan, ACHCSA



Source: Thomas Guide Digital Edition 2000

Title: ***Location Map***
3820 San Leandro Street
Oakland, California

Figure Number: 1	Scale: None
Project No:6651-001.00	Drawn By: TRB
A • C • C ENVIRONMENTAL CONSULTANTS	Date: 8/17/01

7977 Capwell Drive, Suite 100
Oakland, California 94621
(510) 638-8400 Fax: (510) 638-8404

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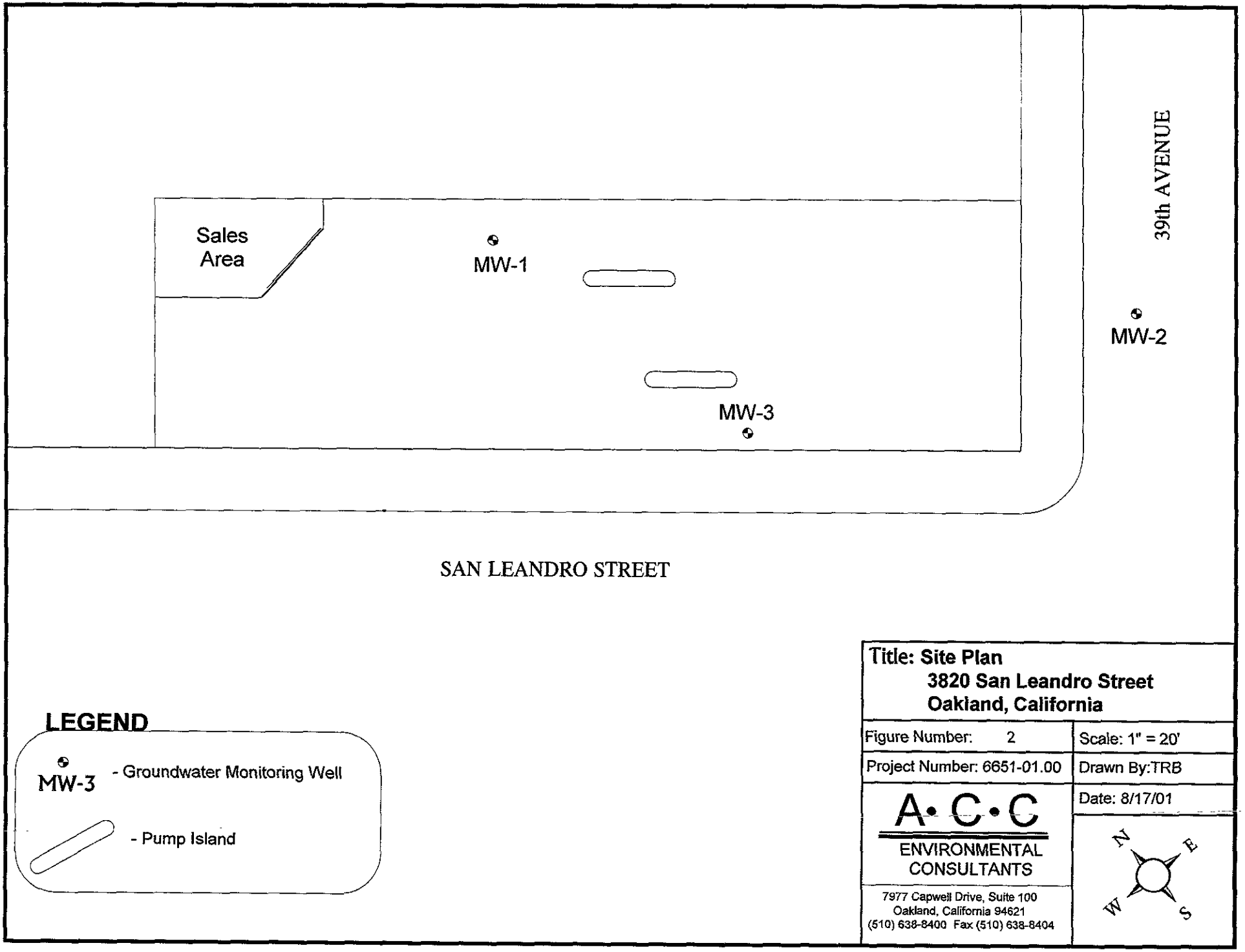
Sales Area
MW-1
MW-2
MW-3
39th AVENUE
SAN LEANDRO STREET
LEGEND
MW-3 - Groundwater Monitoring Well
- Pump Island
Title: Site Plan
3820 San Leandro Street
Oakland, California
Figure Number: 2
Scale: 1" = 20'
Project Number: 6651-01.00
Drawn By:TRB
Date: 8/17/01
A•C•C
ENVIRONMENTAL CONSULTANTS
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510) 638-8400 Fax (510) 638-8404
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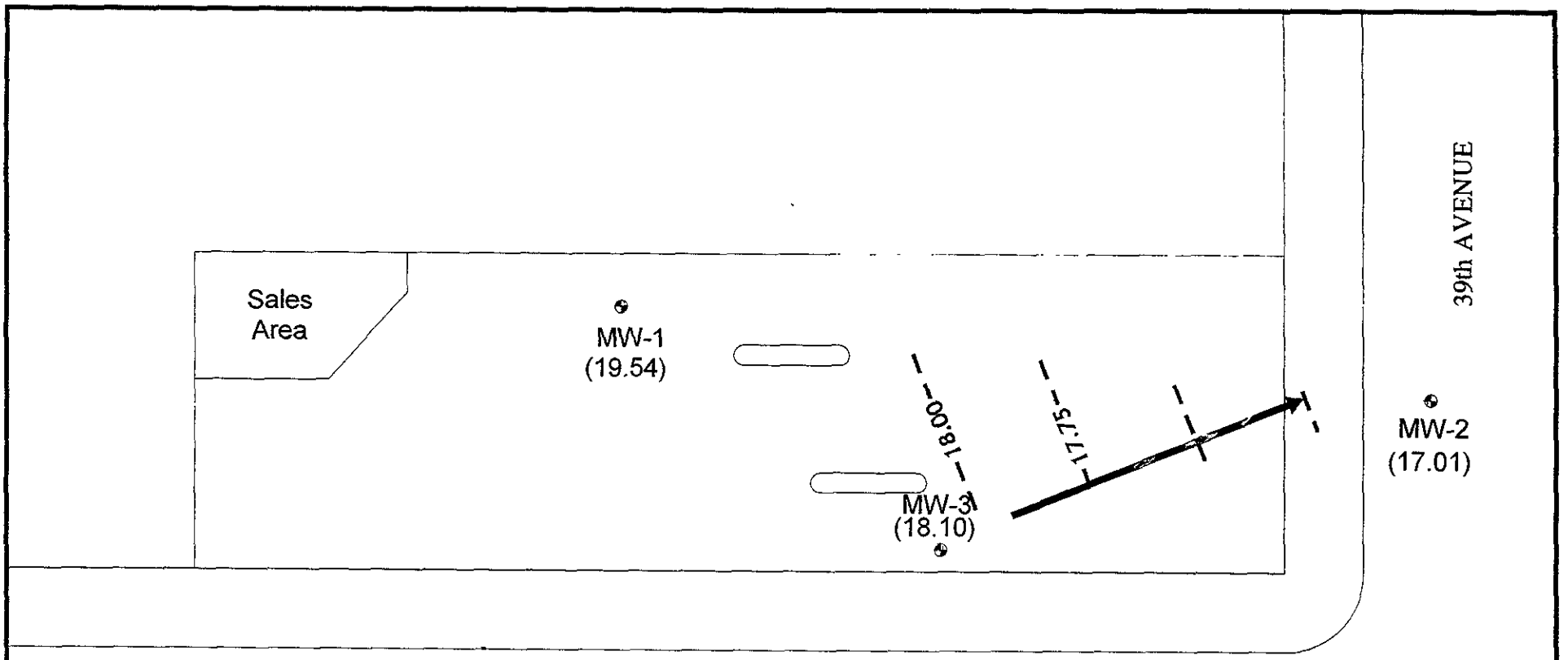

LEGEND

MW-3 (18.79) - Groundwater Monitoring Well

- Groundwater Elevation Contour

- Groundwater Flow Direction

- Pump Island

Title: Gradient Map
3820 San Leandro Street
Oakland, California

Figure Number: 3	Scale: 1" = 20'
Project Number: 6651-01.00	Drawn By: TRB
	Date: 8/17/01

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7977 Capwell Drive, Suite 100
Oakland, California 94621
(510) 638-8400 Fax (510) 638-8404

N E S W

A·C·C ENVIRONMENTAL CONSULTANTS

ACC MONITORING WELL WORKSHEET

JOB NAME: Guy's Gas/Diesel	PURGE METHOD: Manual Bail
SITE ADDRESS: 3820 San Leandro Street	SAMPLED BY: Alex Richardson
JOB #: 01-6051-001.00	LABORATORY: Chromalab
DATE: 7/17/01	ANALYSIS: TPHg/BTEX/Diesel
Onsite Drum Inventory SOIL:	MONITORING ☒ DEVELOPING ☐
EMPTY: WATER: N/A	SAMPLING ☒

WELL: MW-1

DEPTH OF BORING: 20.80
DEPTH TO WATER: 9.00
WATER COLUMN: 1.5
WELL DIAMETER: 2"
WELL VOLUME: 6.0

COMMENTS:
Sampled: 11:00am

PURGE VOL. (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
1.5						
3.0						
4.5						
6.0						

OBSERVATIONS: ☐ Froth ☐ Sheen ☐ Odor Type____ ☐ Free Product Amount____ Type____ ☐ Other

Gray Sheen

WELL: MW-2

DEPTH OF BORING: 20.40
DEPTH TO WATER: 8.96
WATER COLUMN: 1.3
WELL DIAMETER: 2.0"
WELL VOLUME: 5.2

COMMENTS:
Sampled: 12:30

PURGE VOL. (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
1.3						
2.6						
3.9						
5.9						

OBSERVATIONS: ☐ Froth ☐ Sheen ☐ Odor Type____ ☐ Free Product Amount____ Type____ ☐ Other

Brown Silt

WELL: MW-3

DEPTH OF BORING: 19.50
DEPTH TO WATER: 8.42
WATER COLUMN: 1.3
WELL DIAMETER: 2"
WELL VOLUME: 5.2

COMMENTS:
Sampled: 1:30

PURGE VOL. (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
1.3						
2.6						
3.9						
5.2						

OBSERVATIONS: ☐ Froth ☐ Sheen ☐ Odor Type____ ☐ Free Product Amount____ Type____ ☐ Other

Gray Silt

ACC Environmental Consultants
7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Mr. Trevor Bausman

Project: 01-6651-001.00
3820 San Leandro

Dear Mr. Bausman,

Attached is our report for your samples received on Tuesday July 17, 2001
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after August 31, 2001 unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil

Diesel

ACC Environmental Consultants

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn: Trevor Bausman

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 01-6651-001.00

Project: 3820 San Leandro

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	07/17/2001 12:30	1
MW-2	Water	07/17/2001 13:30	2
MW-3	Water	07/17/2001 11:00	3

To: **ACC Environmental Consultants**
Attn.: Trevor Bausman

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**MW-1**	Lab Sample ID:	**2001-07-0300-001**
Project:	01-6651-001.00 3820 San Leandro	Received:	07/17/2001 16:48
		Extracted:	07/18/2001 18:16
Sampled:	07/17/2001 12:30	QC-Batch:	2001/07/18-09.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	68	50	ug/L	1.00	07/20/2001 08:54	ndp
Surrogate(s)						
o-Terphenyl	90.5	60-130	%	1.00	07/20/2001 08:54	

To: **ACC Environmental Consultants**
Attn.: Trevor Bausman

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**MW-2**	Lab Sample ID:	**2001-07-0300-002**
Project:	01-6651-001.00 3820 San Leandro	Received:	07/17/2001 16:48
		Extracted:	07/18/2001 18:16
Sampled:	07/17/2001 13:30	QC-Batch:	2001/07/18-09.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	8000	250	ug/L	5.00	07/20/2001 07:14	ndp
Surrogate(s)						
o-Terphenyl	NA	60-130	%	5.00	07/20/2001 07:14	sd

To: **ACC Environmental Consultants**
Attn.: Trevor Bausman

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID:	**MW-3**	Lab Sample ID:	**2001-07-0300-003**
Project:	01-6651-001.00 3820 San Leandro	Received:	07/17/2001 16:48
		Extracted:	07/18/2001 18:16
Sampled:	07/17/2001 11:00	QC-Batch:	2001/07/18-09.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	320	50	ug/L	1.00	07/19/2001 12:37	ndp
Surrogate(s)						
o-Terphenyl	87.4	60-130	%	1.00	07/19/2001 12:37	

To: **ACC Environmental Consultants**
Attn.: Trevor Bausman

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report
Diesel

Method Blank | **Water** | **QC Batch # 2001/07/18-09.10**

MB: 2001/07/18-09.10-001 | Date Extracted: 07/18/2001 18:16

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	07/19/2001 07:45	
Surrogate(s)					
o-Terphenyl	87.5	60-130	%	07/19/2001 07:45	

To: **ACC Environmental Consultants**
Attn: Trevor Bausman

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/07/18-09.10**

LCS: 2001/07/18-09.10-002 Extracted: 07/18/2001 18:16 Analyzed 07/19/2001 06:30
LCSD: 2001/07/18-09.10-003 Extracted: 07/18/2001 18:16 Analyzed 07/19/2001 07:07

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	866	853	1250	1250	69.3	68.2	1.6	60-130	25		
Surrogate(s)											
o-Terphenyl	16.7	16.8	20.0	20.0	83.5	84.0		60-130			

To: **ACC Environmental Consultants**
Attn: Trevor Bausman

Test Method: 8015M
Prep Method: 3510/8015M

Legend & Notes

Diesel

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants
7977 Capwell Drive, Suite 100
Oakland, CA 94621
Attn: Trevor Bausman
Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 01-6651-001.00
Project: 3820 San Leandro

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	07/17/2001 12:30	1
MW-2	Water	07/17/2001 13:30	2
MW-3	Water	07/17/2001 11:00	3

To: **ACC Environmental Consultants**

Attn.: Trevor Bausman

Test Method: 8021B
8015M

Prep Method: 5030

Gas/BTEX Compounds by 8015M/8021

Sample ID:	**MW-1**	Lab Sample ID:	**2001-07-0300-001**
Project:	01-6651-001.00 3820 San Leandro	Received:	07/17/2001 16:48
		Extracted:	07/18/2001 19:48
Sampled:	07/17/2001 12:30	QC-Batch:	2001/07/18-01.03
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	440	50	ug/L	1.00	07/18/2001 19:48	g
Benzene	6.0	0.50	ug/L	1.00	07/18/2001 19:48	
Toluene	ND	0.50	ug/L	1.00	07/18/2001 19:48	
Ethyl benzene	6.2	0.50	ug/L	1.00	07/18/2001 19:48	
Xylene(s)	ND	0.50	ug/L	1.00	07/18/2001 19:48	
MTBE	ND	5.0	ug/L	1.00	07/18/2001 19:48	
Surrogate(s)						
4-Bromofluorobenzene	106.8	50-150	%	1.00	07/18/2001 19:48	
4-Bromofluorobenzene-FID	101.4	50-150	%	1.00	07/18/2001 19:48	

To: **ACC Environmental Consultants**

Attn.: Trevor Bausman

Test Method: 8021B
8015M

Prep Method: 5030

Gas/BTEX Compounds by 8015M/8021

Sample ID:	**MW-2**	Lab Sample ID:	**2001-07-0300-002**
Project:	01-6651-001.00 3820 San Leandro	Received:	07/17/2001 16:48
		Extracted:	07/19/2001 18:59
Sampled:	07/17/2001 13:30	QC-Batch:	2001/07/19-01.03
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	28000	5000	ug/L	100.00	07/19/2001 18:59	g
Benzene	7000	50	ug/L	100.00	07/19/2001 18:59	
Toluene	ND	50	ug/L	100.00	07/19/2001 18:59	
Ethyl benzene	270	50	ug/L	100.00	07/19/2001 18:59	
Xylene(s)	75	50	ug/L	100.00	07/19/2001 18:59	
MTBE	15000	500	ug/L	100.00	07/19/2001 18:59	
Surrogate(s)						
Trifluorotoluene	96.3	58-124	%	100.00	07/19/2001 18:59	
4-Bromofluorobenzene-FID	79.2	50-150	%	100.00	07/19/2001 18:59	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0300

To: **ACC Environmental Consultants**

Test Method: 8021B
8015M

Attn.: Trevor Bausman

Prep Method: 5030

Gas/BTEX Compounds by 8015M/8021

Sample ID:	**MW-3**	Lab Sample ID:	**2001-07-0300-003**
Project:	01-6651-001.00 3820 San Leandro	Received:	07/17/2001 16:48
		Extracted:	07/19/2001 19:30
Sampled:	07/17/2001 11:00	QC-Batch:	2001/07/19-01.03
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	920	50	ug/L	1.00	07/19/2001 19:30	g
Benzene	6.2	0.50	ug/L	1.00	07/19/2001 19:30	
Toluene	1.1	0.50	ug/L	1.00	07/19/2001 19:30	
Ethyl benzene	ND	0.50	ug/L	1.00	07/19/2001 19:30	
Xylene(s)	ND	0.50	ug/L	1.00	07/19/2001 19:30	
MTBE	49	5.0	ug/L	1.00	07/19/2001 19:30	
Surrogate(s)						
Trifluorotoluene	116.3	58-124	%	1.00	07/19/2001 19:30	
4-Bromofluorobenzene-FID	93.8	50-150	%	1.00	07/19/2001 19:30	

To: **ACC Environmental Consultants**

Attn.: Trevor Bausman

Test Method: 8015M
8021B

Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds by 8015M/8021

Method Blank | **Water** | **QC Batch # 2001/07/18-01.03**

MB: 2001/07/18-01.03-003

Date Extracted: 07/18/2001 08:26

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	07/18/2001 08:26	
Benzene	ND	0.5	ug/L	07/18/2001 08:26	
Toluene	ND	0.5	ug/L	07/18/2001 08:26	
Ethyl benzene	ND	0.5	ug/L	07/18/2001 08:26	
Xylene(s)	ND	0.5	ug/L	07/18/2001 08:26	
MTBE	ND	5.0	ug/L	07/18/2001 08:26	
Surrogate(s)					
4-Bromofluorobenzene	122.4	50-150	%	07/18/2001 08:26	
4-Bromofluorobenzene-FID	118.0	50-150	%	07/18/2001 08:26	

To: **ACC Environmental Consultants**
Attn.: Trevor Bausman

Test Method: 8015M
8021B
Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds by 8015M/8021

Method Blank **Water** **QC Batch # 2001/07/19-01.03**

MB: 2001/07/19-01.03-004 Date Extracted: 07/19/2001 12:24

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	07/19/2001 12:24	
Benzene	ND	0.5	ug/L	07/19/2001 12:24	
Toluene	ND	0.5	ug/L	07/19/2001 12:24	
Ethyl benzene	ND	0.5	ug/L	07/19/2001 12:24	
Xylene(s)	ND	0.5	ug/L	07/19/2001 12:24	
MTBE	ND	5.0	ug/L	07/19/2001 12:24	
Surrogate(s)					
4-Bromofluorobenzene	112.0	50-150	%	07/19/2001 12:24	
4-Bromofluorobenzene-FID	100.0	50-150	%	07/19/2001 12:24	

To: **ACC Environmental Consultants**
Attn: Trevor Bausman

Test Method: 8021B
Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds by 8015M/8021

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/07/18-01.03**

LCS: 2001/07/18-01.03-004 Extracted: 07/18/2001 08:57 Analyzed 07/18/2001 08:57
LCSD: 2001/07/18-01.03-005 Extracted: 07/18/2001 09:28 Analyzed 07/18/2001 09:28

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	98.9	98.3	100.0	100.0	98.9	98.3	0.6	77-123	20		
Toluene	95.8	96.2	100.0	100.0	95.8	96.2	0.4	78-122	20		
Ethyl benzene	98.2	99.2	100.0	100.0	98.2	99.2	1.0	70-130	20		
Xylene(s)	286	291	300	300	95.3	97.0	1.8	75-125	20		
Surrogate(s)											
Trifluorotoluene	479	479	500	500	95.8	95.8		58-124			

To: **ACC Environmental Consultants**

Attn: Trevor Bausman

Test Method: 8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds by 8015M/8021

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/07/18-01.03**

LCS: 2001/07/18-01.03-006 Extracted: 07/18/2001 09:58 Analyzed 07/18/2001 09:58

LCSD: 2001/07/18-01.03-007 Extracted: 07/18/2001 10:29 Analyzed 07/18/2001 10:29

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	497	520	500	500	99.4	104.0	4.5	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-FI	484	505	500	500	96.8	101.0		50-150			

To: **ACC Environmental Consultants**

Attn: Trevor Bausman

Test Method: 8021B

Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds by 8015M/8021

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/07/19-01.03**

LCS: 2001/07/19-01.03-005 Extracted: 07/19/2001 12:55 Analyzed 07/19/2001 12:55

LCSD: 2001/07/19-01.03-006 Extracted: 07/19/2001 13:26 Analyzed 07/19/2001 13:26

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	104	103	100.0	100.0	104.0	103.0	1.0	77-123	20		
Toluene	100	100	100.0	100.0	100.0	100.0	0.0	78-122	20		
Ethyl benzene	102	102	100.0	100.0	102.0	102.0	0.0	70-130	20		
Xylene(s)	300	303	300	300	100.0	101.0	1.0	75-125	20		
Surrogate(s)											
Trifluorotoluene	531	515	500	500	106.2	103.0		58-124			

To: **ACC Environmental Consultants**
Attn: Trevor Bausman

Test Method: 8015M
Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds by 8015M/8021

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/07/19-01.03**

LCS: 2001/07/19-01.03-007 Extracted: 07/19/2001 13:57 Analyzed 07/19/2001 13:57
LCSD: 2001/07/19-01.03-008 Extracted: 07/19/2001 14:28 Analyzed 07/19/2001 14:28

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	512	517	500	500	102.4	103.4	1.0	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-FI	465	472	500	500	93.0	94.4		50-150			

To: **ACC Environmental Consultants**

Attn: Trevor Bausman

Test Method: 8015M
8021B

Prep Method: 5030

Legend & Notes

Gas/BTEX Compounds by 8015M/8021

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

2001-07-0300

60463

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756
510/484-1919 • Facsimile 510/484-1096

Chain of Custody

DATE 7/16/01 PAGE 1 OF 1

PROJ. MGR Trevor Bausman
COMPANY ACC ENVIRONMENTAL
ADDRESS 7977 CAPWELL DRIVE
OAKLAND, CA 94621

SAMPLERS (SIGNATURE)
(PHONE NO.) (510) 638-8400
(FAX NO.) (510) 638-8404

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel, TEPH (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	MTBE	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
MW-1	7/17/01	12:30	H2O	HCl		X	X									X									5
MW-2	7/17/01	1:30	H2O	HCl		X	X									X									5
MW-3	7/17/01	11:00	H2O	HCl		X	X									X									5

PROJECT INFORMATION

PROJECT NAME: 3820 San Leandro
PROJECT NUMBER: 01-6651-001.00
P.O. # 6651-10

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	15
HEAD SPACE	
REC'D GOOD CONDITION/COLD	5.4°C
CONFORMS TO RECORD	

TAT: (STANDARD 5-DAY) | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3.
(SIGNATURE) Alex Richardson (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) [signature] (TIME) 1648
(PRINTED NAME) Alex Richardson (DATE) 7/17/01	(PRINTED NAME) (DATE)	(PRINTED NAME) R Morrow (DATE) 7/17/01
(COMPANY) ACC NV	(COMPANY)	(COMPANY) STL-CC

RECEIVED BY 1.	RECEIVED BY 2.	RECEIVED BY (LABORATORY) 3.
(SIGNATURE) [signature] (TIME) 1457	(SIGNATURE) (TIME)	(SIGNATURE) Denise Harrington (TIME) 1648
(PRINTED NAME) R Morrow (DATE) 7/17/01	(PRINTED NAME) (DATE)	(PRINTED NAME) D. Harrington (DATE) 7/17/01
(COMPANY) STL-CC	(COMPANY)	(LAB) STL-CC