A·C·C
ENVIRONMENTAL
CONSULTANTS

fo 89

August 25, 2003

Alameda County
AUG 27 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 Number 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. 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).

In January 2003, ACC obtained and reviewed a copy of the August 10, 1998 Soil and Groundwater Investigation Report, prepared by Brunsing Associates, Inc. (Brunsing) for Mr. Kelly Engineer. According to Brunsing, two diesel fuel and two gasoline fuel underground storage tanks (USTs) were removed by American Consulting Remediation and Construction (ACRC) in January 1998. UST removal activities were summarized in ACRC's Tank Closure Report. Excavated soil removed during the UST removal was profiled and disposed at Forward Landfill. Brunsing advanced six exploratory soil borings (B1, B2, B5, B6, and B7) and installed three groundwater monitoring wells. The monitoring wells were subsequently developed and sampled on July 6, 1998. The six exploratory soil borings were completed to depths of 7.0 to 16.5 feet below ground surface (bgs) and the three groundwater monitoring wells were completed to depths of 21.0 to 21.5 feet bgs. The three groundwater monitoring wells are screened from 5 to 20 feet bgs.

FIELD PROCEDURES

Groundwater Sampling

ACC performed groundwater sampling at the site on July 17, 2003. 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 surface (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	18.54
		01/15/03	6.94	20.60
		04/17/03	7.01	20.53
		07/17/03	8.71	18.83
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
		01/15/03	7.25	18.72
		04/17/03	7.43	18.54
		07/17/03	8.89	17.08
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
		01/15/03	7.60	18.92
		04/17/03	8.07	18.45
		07/17/03	9.07	17.45

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

Groundwater Gradient

Groundwater elevations were calculated from data collected from the wells on July 17, 2003. The calculated groundwater flow direction and gradient values are south at 0.030 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
01/15/03	0.038	South
04/17/03	0.050	South
07/17/03	0.030	South

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 one 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 San Francisco (STL-SF), 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 STL-SF for analysis of TPHg, TPHd, BTEX, and MTBE by EPA Method 8260B. Relatively minor concentrations were reported in monitoring wells MW-1 and MW-2 and elevated TPHg, BTEX, and MTBE were reported in monitoring well MW-3.

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
	01/15/03	360[g]	86[ndp]	5.5	<0.50	4.3	1.3	19
	04/17/03	<50	<50	<0.50	<0.50	<0.50	<1.0	11
	07/17/03	380	95[ndp]	19	<0.50	3.7	1.5	5.6
MW-2	07/06/98	6,400	<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
	01/15/03	750[g]	250[ndp]	13	<0.50	<0.50	<0.50	78
	04/17/03	180	120	<0.50	<0.50	<0.50	<1.0	8.1
	07/17/03	640	400[ndp]	10	<0.50	<0.50	<1.0	27
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
	01/15/03	40,000[g]	11,000[ndp]	10,000	110	680	210	20,000
	04/17/03	39,000	3,200[ndp]	11,000	<100	870	<200	34,000
	07/17/03	58,000[g]	5,100[ndp]	16,000	<250	850	<500	28,000

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

Previous site investigation and groundwater monitoring results have demonstrated that soil and groundwater have been impacted by a release from the former onsite USTs and/or fuel delivery system. This sampling event was performed to document trends in groundwater flow direction, gradient, and concentrations of constituents of concern in groundwater at the Site.

Similar to previous groundwater monitoring events, the groundwater sample from well MW-3 reported the highest concentrations of petroleum hydrocarbons and related constituents. Well MW-3 reported 58,000 parts per billion (ppb) TPHg, 5,100 ppb TPHd, 16,000 ppb benzene, 28,000 ppb MTBE, and lesser concentrations of toluene, ethylbenzene, and xylenes. Concentrations of

constituents of concern were significantly less in wells MW-1 and MW-2, indicating that the release(s) may be localized in the vicinity of well MW-3.

As requested by the Alameda County Health Care Services Agency, ACC has scheduled the downgradient subsurface investigation for August 6, 2003. ACC will use the information from this investigation to determine the horizontal extent of impact in groundwater and help evaluate the necessity for groundwater remediation and/or additional groundwater monitoring wells.

CONCLUSIONS

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

- Groundwater at the site is being impacted by ongoing releases of petroleum hydrocarbons as TPHg, TPHd, BTEX, and MTBE;
- Groundwater flow direction and gradient are consistent with historical trends and approximate surface topography; and
- The majority of impacted groundwater appears to be located in the vicinity of well MW-3 (closest to San Leandro Street).

RECOMMENDATIONS

Based on conclusions of groundwater monitoring performed to date, ACC recommends the following:

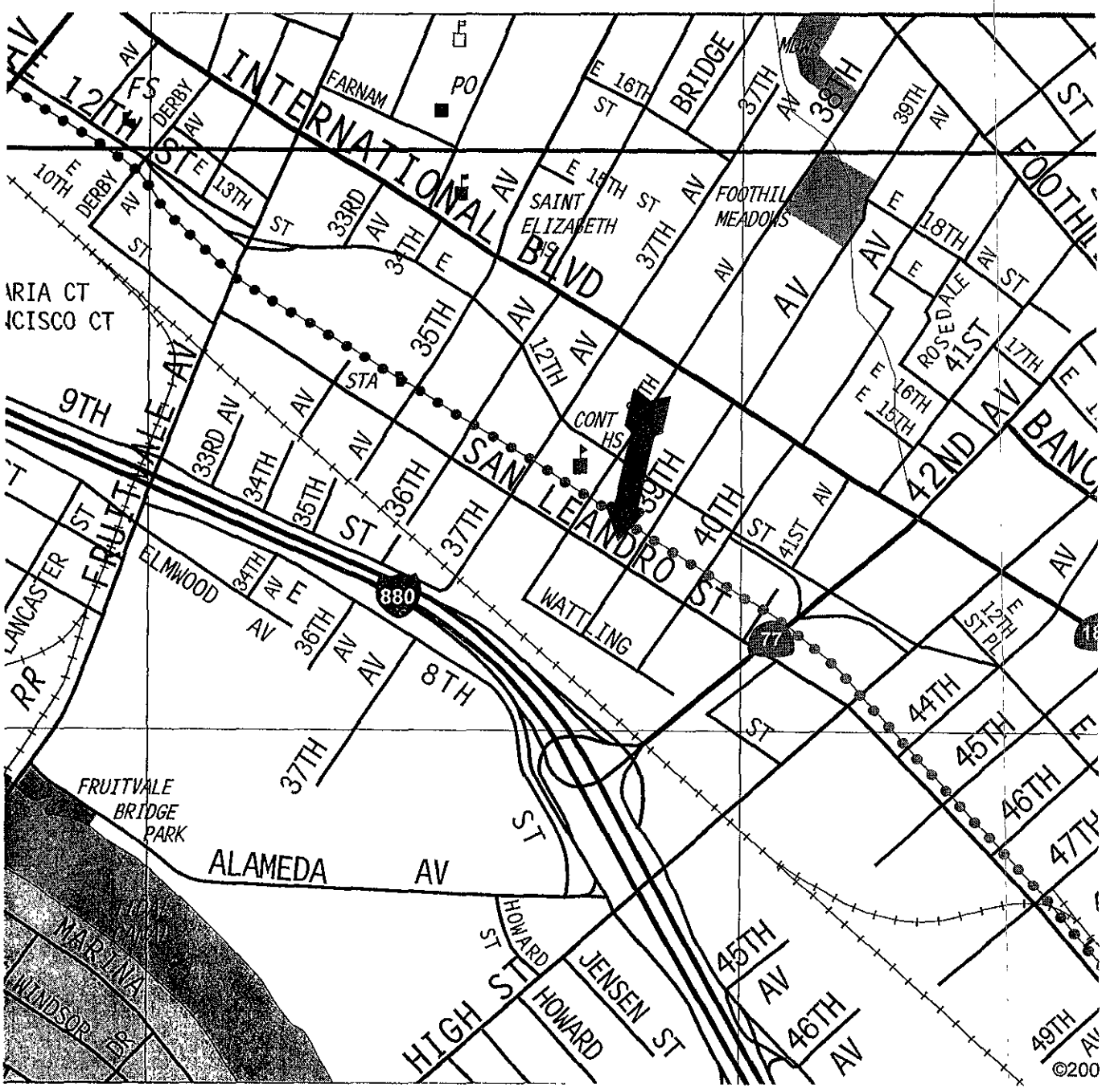
- Evaluate groundwater extraction in well MW-3 as an interim remedial option and to help minimize offsite migration; and
- Analyze future water samples from all three monitoring wells for TPHg, BTEX, and all fuel oxygenates by EPA Method 8260B.

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

Sincerely,

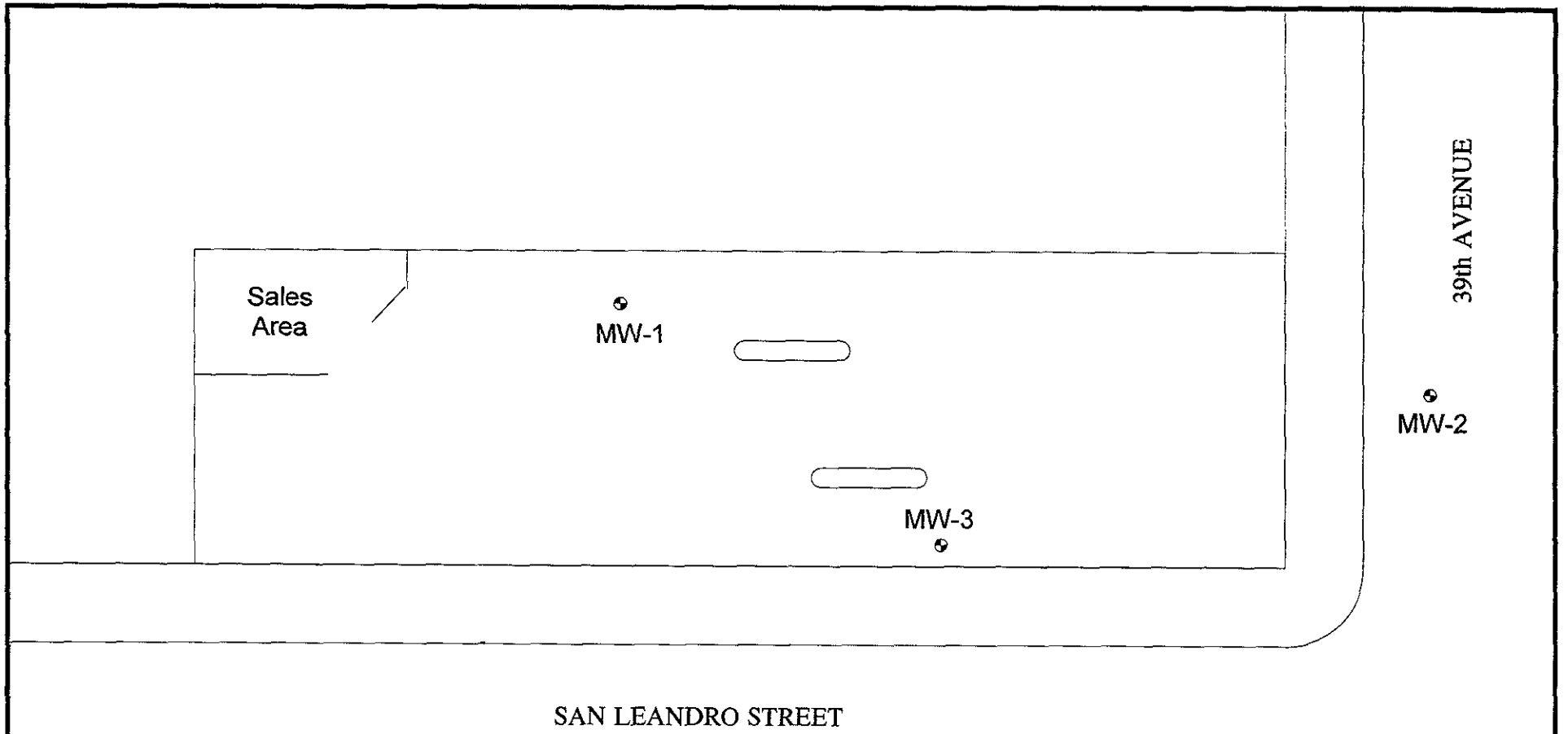
David R. DeMent, RG, REA II
Environmental Division Manager

cc: Mr. Barney Chan, ACHCSA
Mr. Paul Rosenstein, Esq.



Source: The Thomas Guide, Bay Area 2002

Title: ***Location Map*** ***3820 San Leandro Street*** ***Oakland, California***	
Figure Number: 1	Scale: None
Project No: 6551-001.00	Drawn By: EJG
A • C • C ENVIRONMENTAL CONSULTANTS	Date: 8/25/03
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	N W E S



LEGEND

MW-3 - Groundwater Monitoring Well

- Pump Island

Title: Site Plan
3820 San Leandro Stree
Oakland, California

Figure Number: 2	Scale: 1" = 20'
Project Number: 6651-01.00	Drawn By:EJG
	Date: 8/25/03

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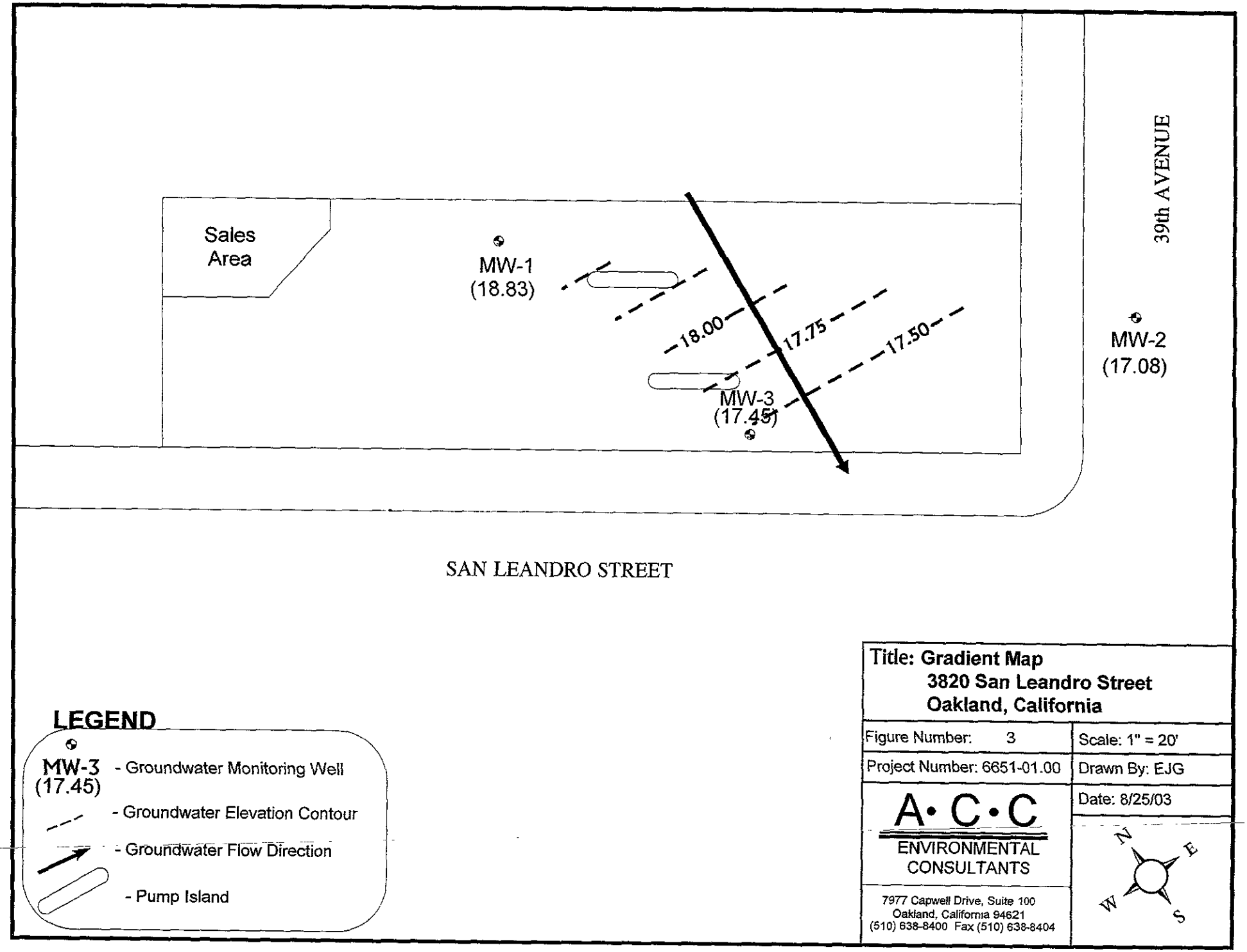
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510) 638-8400 Fax (510) 638-8404

N E W S



LEGEND

MW-3 (17.45) - 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: EJG
	Date: 8/25/03

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Oakland, California 94621
(510) 638-8400 Fax (510) 638-8404

N E W S

ACC ENVIRONMENTAL CONSULTANTS

ACC MONITORING WELL WORKSHEET

JOB NAME: Gills Gas & Diesel	PURGE METHOD: Manual Bail
SITE ADDRESS: 3820 San Leandro Street	SAMPLED BY: EJG
JOB #: 6551-001.00	LABORATORY: STLSF
DATE: 7/17/03	ANALYSIS: TPHd/TPHg/BTEX/MTBE
Onsite Drum Inventory SOIL: 1@100%	MONITORING ☒ DEVELOPING ☐
EMPTY: WATER:	SAMPLING ☒

WELL: MW-1

DEPTH OF BORING: 20.03
DEPTH TO WATER: 8.71
WATER COLUMN: 12.32
WELL DIAMETER: 2"
WELL VOLUME: 2.0
COMMENTS:
Purge: 13:00
Sample: 14:40

PURGE VOL (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
2.0	6.59	23.2	0.747	0.03	553	1.99
4.0	6.68	22.3	0.761	0.03	999	2.21
6.0	6.74	22.1	0.751	0.03	999	2.28
8.0	6.78	22.0	0.750	0.03	999	2.21

OBSERVATIONS: ☐ Froth ☐ Sheen ☐ Odor Type ☐ Free Product Amount Type ☐ Other
Silty

WELL: MW-2

DEPTH OF BORING: 20.07
DEPTH TO WATER: 8.89
WATER COLUMN: 11.18
WELL DIAMETER: 2"
WELL VOLUME: 1.8
COMMENTS:
Purge: 13:30
Sample: 14:45

PURGE VOL (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
1.8	6.62	21.5	0.844	0.03	895	1.98
3.6	6.64	20.9	0.861	0.03	885	2.03
5.4	6.67	20.8	0.873	0.03	999	2.00
7.2	6.69	20.8	0.875	0.03	999	2.01

OBSERVATIONS: ☐ Froth ☐ Sheen ☒ Odor Type gas ☐ Free Product Amount Type ☐ Other
Silty

WELL: MW-3

DEPTH OF BORING: 19.49
DEPTH TO WATER: 9.07
WATER COLUMN: 10.42
WELL DIAMETER: 2"
WELL VOLUME: 1.8
COMMENTS:
Purge: 14:00
Sample: 14:50

PURGE VOL (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
1.8	6.53	22.3	1.78	0.07	294	2.02
3.6	6.54	21.8	1.77	0.08	702	2.07
5.4	6.54	21.2	1.78	0.08	999	1.89
7.2	6.55	21.2	1.78	0.08	999	2.00

OBSERVATIONS: ☐ Froth ☒ Sheen ☒ Odor Type gas ☐ Free Product Amount Type ☐ Other

SEVERN TRENT STL

Submission#: 2003-07-0593

ACC Environmental Consultants

July 25, 2003

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Ed Giacometti

Project#: 6651-004.00
Project: 3820 San Leandro St.

Dear Mr. Giacometti,

Attached is our report for your samples received on 07/18/2003 16:50
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 09/01/2003 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@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2003-07-0593

Total Extractable Petroleum Hydrocarbons (TEPH)

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/17/2003 14:40	Water	1
MW-2	07/17/2003 14:45	Water	2
MW-3	07/17/2003 14:50	Water	3

Total Extractable Petroleum Hydrocarbons (TEPH)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	**MW-1**	Lab ID:	2003-07-0593 - 1
Sampled:	07/17/2003 14:40	Extracted:	7/21/2003 12:02
Matrix:	Water	QC Batch#:	2003/07/21-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	95	50	ug/L	1.00	07/23/2003 01:28	ndp
Motor Oil	ND	500	ug/L	1.00	07/23/2003 01:28	
Surrogates(s)						
o-Terphenyl	83.2	60-130	%	1.00	07/23/2003 01:28	

Total Extractable Petroleum Hydrocarbons (TEPH)

ACC Environmental Consultants
Attn.: Ed Giacometti

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Prep(s): 3510/8015M
Test(s): 8015M
Sample ID: **MW-2**
Lab ID: 2003-07-0593 - 2
Sampled: 07/17/2003 14:45
Extracted: 7/21/2003 12:02
Matrix: Water
QC Batch#: 2003/07/21-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	400	50	ug/L	1.00	07/23/2003 00:57	ndp
Motor Oil	ND	500	ug/L	1.00	07/23/2003 00:57	
Surrogates(s)						
o-Terphenyl	95.5	60-130	%	1.00	07/23/2003 00:57	

Total Extractable Petroleum Hydrocarbons (TEPH)

ACC Environmental Consultants
Attn.: Ed Giacometti

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Oakland, CA 94621
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Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Prep(s): 3510/8015M
Sample ID: **MW-3**
Sampled: 07/17/2003 14:50
Matrix: Water

Test(s): 8015M
Lab ID: 2003-07-0593 - 3
Extracted: 7/21/2003 12:02
QC Batch#: 2003/07/21-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	5100	50	ug/L	1.00	07/23/2003 00:25	ndp
Motor Oil	ND	500	ug/L	1.00	07/23/2003 00:25	
Surrogates(s)						
o-Terphenyl	60.2	60-130	%	1.00	07/23/2003 00:25	

Total Extractable Petroleum Hydrocarbons (TEPH)

ACC Environmental Consultants
Attn.: Ed Giacometti

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Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Batch QC Report

Prep(s): 3510/8015M
Method Blank
MB: 2003/07/21-04.10-001

Water

Test(s): 8015M
QC Batch # 2003/07/21-04.10
Date Extracted: 07/21/2003 12:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	07/23/2003 00:25	
Motor Oil	ND	500	ug/L	07/23/2003 00:25	
Surrogates(s)					
o-Terphenyl	85.3	60-130	%	07/23/2003 00:25	

Total Extractable Petroleum Hydrocarbons (TEPH)

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2003/07/21-04.10**

LCS 2003/07/21-04.10-002 Extracted: 07/21/2003 Analyzed: 07/22/2003 23:23
LCSD 2003/07/21-04.10-003 Extracted: 07/21/2003 Analyzed: 07/22/2003 23:54

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	879	886	1000	87.9	88.6	0.8	60-130	25		
Surrogates(s)										
o-Terphenyl	19.8	19.6	20.0	99.0	98.1		60-130	0		

Total Extractable Petroleum Hydrocarbons (TEPH)

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

SEVERN TRENT STL

Submission #: 2003-07-0593

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/17/2003 14:40	Water	1
MW-2	07/17/2003 14:45	Water	2
MW-3	07/17/2003 14:50	Water	3

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Prep(s): 5030B
Test(s): 8260B
Sample ID: MW-1
Lab ID: 2003-07-0593 - 1
Sampled: 07/17/2003 14:40
Extracted: 7/24/2003 13:15
Matrix: Water
QC Batch#: 2003/07/24-1E.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	380	50	ug/L	1.00	07/24/2003 13:15	
Methyl tert-butyl ether (MTBE)	5.6	0.50	ug/L	1.00	07/24/2003 13:15	
Benzene	19	0.50	ug/L	1.00	07/24/2003 13:15	
Toluene	ND	0.50	ug/L	1.00	07/24/2003 13:15	
Ethylbenzene	3.7	0.50	ug/L	1.00	07/24/2003 13:15	
Total xylenes	1.5	1.0	ug/L	1.00	07/24/2003 13:15	
Surrogates(s)						
1,2-Dichloroethane-d4	97.0	76-114	%	1.00	07/24/2003 13:15	
Toluene-d8	99.1	88-110	%	1.00	07/24/2003 13:15	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Prep(s): 5030B
Sample ID: **MW-2**
Sampled: 07/17/2003 14:45
Matrix: Water

Test(s): 8260B
Lab ID: 2003-07-0593 - 2
Extracted: 7/24/2003 13:38
QC Batch#: 2003/07/24-1E.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	640	50	ug/L	1.00	07/24/2003 13:38	g
Methyl tert-butyl ether (MTBE)	27	0.50	ug/L	1.00	07/24/2003 13:38	
Benzene	10	0.50	ug/L	1.00	07/24/2003 13:38	
Toluene	ND	0.50	ug/L	1.00	07/24/2003 13:38	
Ethylbenzene	ND	0.50	ug/L	1.00	07/24/2003 13:38	
Total xylenes	ND	1.0	ug/L	1.00	07/24/2003 13:38	
Surrogates(s)						
1,2-Dichloroethane-d4	92.7	76-114	%	1.00	07/24/2003 13:38	
Toluene-d8	101.8	88-110	%	1.00	07/24/2003 13:38	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Ed Giacometti

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

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Prep(s): 5030B
Test(s): 8260B
Sample ID: **MW-3**
Lab ID: 2003-07-0593 - 3
Sampled: 07/17/2003 14:50
Extracted: 7/24/2003 14:00
Matrix: Water
QC Batch#: 2003/07/24-1E.65
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	58000	25000	ug/L	500.00	07/24/2003 14:00	g
Methyl tert-butyl ether (MTBE)	28000	250	ug/L	500.00	07/24/2003 14:00	
Benzene	16000	250	ug/L	500.00	07/24/2003 14:00	
Toluene	ND	250	ug/L	500.00	07/24/2003 14:00	
Ethylbenzene	850	250	ug/L	500.00	07/24/2003 14:00	
Total xylenes	ND	500	ug/L	500.00	07/24/2003 14:00	
Surrogates(s)						
1,2-Dichloroethane-d4	105.5	76-114	%	500.00	07/24/2003 14:00	
Toluene-d8	101.8	88-110	%	500.00	07/24/2003 14:00	

Fuel Oxygenates by 8260B

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/07/24-1E.65-014

Water

Test(s): 8260B
QC Batch # 2003/07/24-1E.65
Date Extracted: 07/24/2003 10:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/24/2003 10:14	
Benzene	ND	0.5	ug/L	07/24/2003 10:14	
Toluene	ND	0.5	ug/L	07/24/2003 10:14	
Ethylbenzene	ND	0.5	ug/L	07/24/2003 10:14	
Total xylenes	ND	1.0	ug/L	07/24/2003 10:14	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/24/2003 10:14	
Surrogates(s)					
1,2-Dichloroethane-d4	93.5	76-114	%	07/24/2003 10:14	
Toluene-d8	102.4	88-110	%	07/24/2003 10:14	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2003/07/24-1E.65**

LCS 2003/07/24-1E.65-029 Extracted: 07/24/2003 Analyzed: 07/24/2003 09:29

LCSD 2003/07/24-1E.65-052 Extracted: 07/24/2003 Analyzed: 07/24/2003 09:52

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	21.4	22.7	25	85.6	90.8	5.9	69-129	20		
Toluene	21.5	23.4	25	86.0	93.6	8.5	70-130	20		
Methyl tert-butyl ether (MTBE)	18.2	19.6	25	72.8	78.4	7.4	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	466	450	500	93.2	90.0		76-114			
Toluene-d8	508	504	500	101.6	100.8		88-110			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6651-004.00
3820 San Leandro St.

Received: 07/18/2003 16:50

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

g

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

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

2003-07-0593

Reference #: 76209

Date 7/17/03 Page 1 of 1

Report To

Attn: ED GIACOMETTI

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, OAKLAND, CA

P: (510) 638-8400 x 114 E:egiacometti@accenv.com

Bill To: ACC ENVIRONMENTAL

Sampled By: Ed Giacometti

Attn: ED Phone ext: 114

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☒ 8260B ☒ Gas w/ ☒ BTEX ☒ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TDS ☐ TSS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4					Number of Containers
MW-1	7/17/03	14:40	H2O	HCl/cold	X		X																					5
MW-2	7/17/03	14:45	H2O	HCl/cold	X		X																					5
MW-3	7/17/03	14:50	H2O	HCl/cold	X		X																					5

Project Info.

Project Name: 3820 San Leandro St.

Project#: 6651-004.00

PO#:

Credit Card#:

Sample Receipt

of Containers:

Head Space:

Temp: 5.2°C

Conforms to record:

TAT: (Std) 5 Day | 72h | 48h | 24h

Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF

Special Instructions / Comments:

☐ Global ID _____

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Edward Giacometti Time: 7/17/03	Signature: [illegible] Time: 1650	Signature: Time:
Printed Name: ED GIACOMETTI Date: 7/17/03	Printed Name: J MURAZ Date: 7/18	Printed Name: Date:
Company: ACC ENVIRONMENTAL CONSULTANTS	Company: WORLD	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [illegible] Time: 1445	Signature: Time:	Signature: Nourak Time: 1650
Printed Name: J MURAZ Date: 7/18	Printed Name: Date:	Printed Name: Nourak. Date: 7/18/03
Company: WORLD	Company:	Company: STL-SF

Rev 01/02

SEVERN TRENT STL

STL San Francisco

Sample Receipt Checklist

Submission #:2003- 07 - 0593

Checklist completed by: (initials) MV Date: 07/21/03

Courier name: ☐ STL San Francisco ☐ Client World

Custody seals intact on shipping container/samples	Yes____ No____	Not Present ✓
Chain of custody present?	Yes ✓ No____	
Chain of custody signed when relinquished and received?	Yes ✓ No____	
Chain of custody agrees with sample labels?	Yes ✓ No____	
Samples in proper container/bottle?	Yes ✓ No____	
Sample containers intact?	Yes ✓ No____	
Sufficient sample volume for indicated test?	Yes ✓ No____	
All samples received within holding time?	Yes ✓ No____	
Container/Temp Blank temperature in compliance (4^{o} C ± 2)?	Temp: 5.2°C Yes ✓ No____	
Water - VOA vials have zero headspace?	No VOA vials submitted____ Yes ✓ No____	

(if bubble is present, refer to approximate bubble size and itemize in comments as **S** (small ~O), **M** (medium ~ O) or **L** (large ~ O)

Water - **pH acceptable upon receipt?** ☐ Yes ☐ No

☐ **pH adjusted**– Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: ____/____/03

Client contacted: ☐ Yes ☐ No

Summary of discussion:

Corrective Action (per PM/Client):