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Emilionmental Health

May 19, 2001

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 (RWOCB).

FIELD PROCEDURES

Groundwater Sampling

ACC performed groundwater sampling at the Site on April 10, 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 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** 09/10/00 04/10/01	7.77 N/A 7.34	19.77 N/A 20.20
MW-2	25.97	07/06/98** 09/10/00 04/10/01	8.15 N/A 7.32	17.82 N/A 18.65
MW-3	26.52	07/06/98** 09/10/00 04/10/01	8.42 N/A 7.73	18.10 N/A 18.79

Notes: All measurements in feet

Groundwater Gradient

Groundwater elevations were calculated from data collected from the wells on January 15, 2003. The calculated groundwater flow direction and gradient values are south at 0.038 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

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.

^{*}Well elevation measured to top of casing

^{**}Groundwater elevations recorded by BACE Environmental

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 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. In addition, the samples from well MW-2 were analyzed for fuel oxygenates as MTBE, tert-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), and tert-amyl methyl ether (TAME).

Analytical results from the groundwater samples are summarized in Tables 3 and 4. Copies of the analytical results and chain of custody record are attached.

TABLE 3 - GROUNDWATER SAMPLE ANALYTICAL RESULTS PETROLEUM HYDROCARBONS

Sample ID	Date	TPHg st (ug/ls)	TPHd (µg/L)	Benzene (µg/L)	Toluche (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
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
MW-3	07/06/98	36,000	< 100	6,700	72	6.2	530	13,000
	09/10/00	20,000g	4,200 ^{ndp}	9,200	70	710	79	6,400
	04/10/01	15,000	N/A	4,500	27	320	140	8,800

Notes: $\mu g/L = micrograms per liter (approximately equivalent to parts per billion)$

< 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

Mr. Kelly Engineer May 19, 2001 Page 4

TABLE 4 - GROUNDWATER SAMPLE ANALYTICAL RESULTS **FUEL OXYGENATES**

Sample ID	TBA (ug/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
MW-3	<1,000	10,000	<2,000	<1,000	<1,000

Notes: $\mu g/L = micrograms per liter (approximately equivalent to parts per billion)$ < Indicates the sample tested below the indicated laboratory reporting limit

DISCUSSION

This investigation was performed to determine the degree of petroleum hydrocarbon impact in groundwater at the Site by a former release from the former or 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. No fuel oxygenates other than MTBE were detected above laboratory reporting limits.

ACC was not supplied with monitoring well elevation data, so the groundwater flow direction and gradient could not be determined. Due to the Site location, the inferred groundwater flow direction is nuls survey to the west, so well MW-3 would likely be the most downgradient monitoring well.

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.

Mr. Kelly Engineer May 19, 2001 Page 5

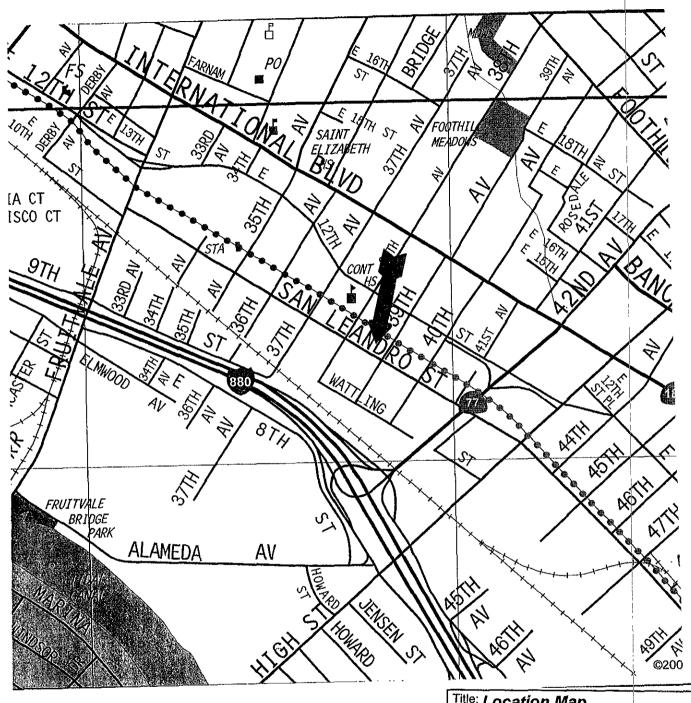
If you have any questions regarding this report or the findings of the work, please contact me at (510) 638-8400, extension 109.

Sincerely,

David R. DeMent, RG

Environmental Division Manager

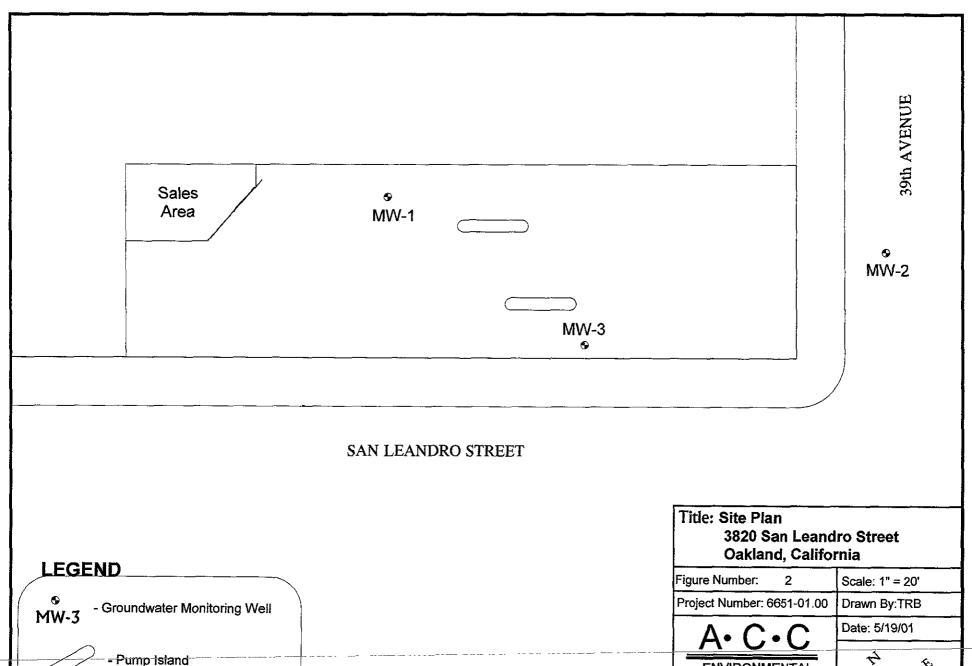
cc: Mr. Barney Chan, ACHCSA



Source: Thomas Guide Digital Edition 2000

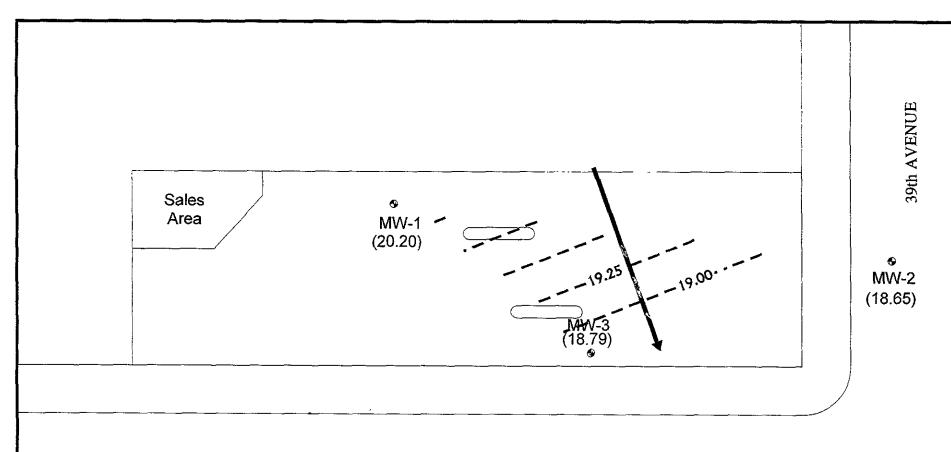
Title: Location Map 3820 San Leandro Street Oakland, California

Figure Number: 1	Scale: None
Project No:6651-001.00	Drawn By: TRB
$\mathbf{A} \cdot \mathbf{C} \cdot \mathbf{C}$	Date: 5/19/01
ENVIRONMENTAL CONSULTANTS	N
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	W F S

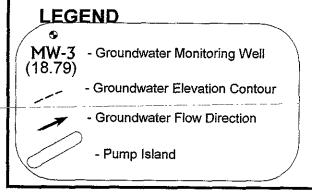


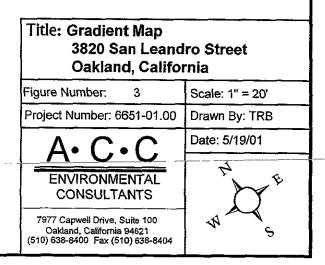
ENVIRONMENTAL CONSULTANTS

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



SAN LEANDRO STREET







ACC MONITORING WELL WORKSHEET

				,		_		
JOB NAME: Guy's GOS A	iœel	···	· · · · · · · · · · · · · · · · · · ·	PURGE	METHO	DD: M	anna	Railing
SITE ADDRESS: 3820 &	n Lean	de			ED BY:			
JOB#: 01-6681-001.00			i					molab
DATE: 4/10/01				ANALY	sis: ೡ	PHala	tex/3	siesel.
Onsite Drum Inventory SOIL:					RING &		7	DEVELOPING
EMPTY: WATER: 2				SAMPLI	NG DO			
	PURGE							
	VOL		PURG	E WATE	RREAL	NINGS		OBSERVATIONS
WELL: MW-1	(Gal)	рΗ	Temp.(C)	Cond.	Sal.	Turb.	D ,O.	Froth
DEPTH OF BORING: 19.65	8, 0	6.80	18.1	0.693	0.02	443	2.9	Sheen
DEPTH TO WATER: 7.34	4.0	6.86	18.2	0.68	_	175	2.7	Odor Type gasoline
WATER COLUMN: 12,21	6.0	6.90			0.02		2.5	Free Product
WELL DIAMETER: 2"	8,0	6.94		0.637		999	2.6	AmountType
WELL VOLUME: 29a)				!				X Other
COMMENTS:								very poor recharge well bailed dury
Sampled at: 18:25					1			well bailed diry
								sampled at 70% rec
WELL: MW-2	(Gal)	рН	Temp.(C)	Cond.	Sal.	Turb.	D.O.	Froth
DEPTH OF BORING: 20.60	2.1	6.77	17.9		0.02	999	3.1	Sheen
DEPTH TO WATER: 7.32	4.2	6.77	17.9	0.509	0.02	999	3.2	Odor туре
WATER COLUMN: 13.28	6.3	6.99	18.3	0.802	0.02	999	3,2	Free Product
WELL DIAMETER: 211	8.4	699	18.3	0.496	0.02	999	3.1	AmountType
WELL VOLUME: 2.1 gal								χ Other
COMMENTS:								Turbid (brown)
sampled at 14:10								
WELL: MW-3	(Gal)	рΗ	Temp.(C)	Cond.	Sal.	Turb.	D.O.	Froth
DEPTH OF BORING: 20.02	J.O	685	17.4	0.420	0.02	962	3.1	Sheen
DEPTH TO WATER: 7-73	4.0	4.84	17.4	0.624	0.02	999	3.1	Odor Type
WATER COLUMN: 12,29	6.0	6.92	17.5		0.02	999	3.2	Free Product
WELL DIAMETER: 2"	80	1	17.5		0.02	999	3.1	AmountType
WELL VOLUME: 2901								
COMMENTS:								Turbid (gray)
Sampled at 14:40	·							, v. v. – , y
·	·							

Submission #: 2001-04-0251

Date: April 18, 2001

ACC Environmental Consultants

7977 Capwell Drive, Suite 100 Oakland, CA 94621

Attn.: Mr. Dave DeMent

Project: 00-6651-001.00

3820 San Leandro

Dear Mr. DeMent,

Attached is our report for your samples received on Wednesday April 11, 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 May 26, 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

Gas/BTEX and MTBE

ACC Environmental Consultants

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Attn: Dave DeMent

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

Project #: 00-6651-001.00

Project: 3820 San Leandro

Samples Reported

Sample ID	Matrix	Date Sampled	Lab#	
MW-1	Water	04/10/2001 14:40	1	
MW-2	Water	04/10/2001 17:30	2	
MW-3	Water	04/10/2001 15:10	3	

Submission #: 2001-04-0251

Environmental Services (CA 1094)

To: **ACC Environmental Consultants**

Test Method:

8020 8015M

Attn.: Dave DeMent

Prep Method:

5030

Gas/BTEX and MTBE

Sample ID:

MW-1

Lab Sample ID: 2001-04-0251-001

Project:

00-6651-001.00

Received:

04/11/2001 17:12

3820 San Leandro

Extracted:

04/13/2001 16:44

Sampled:

04/10/2001 14:40

QC-Batch:

2001/04/13-01.01

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	320	50	ug/L	1.00	04/13/2001 16:44	g
Benzene	3.6	0.50	ug/L	1.00	04/13/2001 16:44	_
Toluene	1.1	0.50	ug/L	1.00	04/13/2001 16:44	
Ethyl benzene	1.2	0.50	ug/L	1.00	04/13/2001 16:44	
Xylene(s)	0.79	0.50	ug/L	1.00	04/13/2001 16:44	
MTBE	ND	5.0	ug/L	1.00	04/13/2001 16:44	
Surrogate(s)	Ì					
Trifluorotoluene	112.1	58-124	%	1.00	04/13/2001 16:44	
4-Bromofluorobenzene-FID	74.3	50-150	%	1.00	04/13/2001 16:44	

Submission #: 2001-04-0251

STL ChromaLab

Environmental Services (CA 1094)

To: **ACC Environmental Consultants**

Test Method:

8020

8015M

Attn.: Dave DeMent

Prep Method:

5030

Gas/BTEX and MTBE

Sample ID:

MW-2

Lab Sample ID: 2001-04-0251-002

Project:

00-6651-001.00

Received:

04/11/2001 17:12

3820 San Leandro

Extracted:

04/13/2001 13:17

Sampled:

04/10/2001 17:30

QC-Batch:

2001/04/13-01.01

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1100	250	ug/L	5.00	04/13/2001 13:17	g
Benzene	12	2.5	ug/L	5.00	04/13/2001 13:17	_
Toluene	7.7	2.5	ug/L	5.00	04/13/2001 13:17	
Ethyl benzene	מא	2.5	ug/L	5.00	04/13/2001 13:17	
Xylene(s)	ND	2.5	ug/L	5.00	04/13/2001 13:17	
MTBE	73	25	ug/L	5.00	04/13/2001 13:17	
Surrogate(s)						
Trifluorotoluene	113.2	58-124	%	5.00	04/13/2001 13:17	
4-Bromofluorobenzene-FID	79.1	50-150	%	5.00	04/13/2001 13:17	

Submission #: 2001-04-0251

Environmental Services (CA 1094)

To: **ACC Environmental Consultants**

Test Method:

8020 8015N

Attn.: Dave DeMent

Prep Method:

5030

Gas/BTEX and MTBE

Sample ID:

MW-3

Lab Sample ID: 2001-04-0251-003

Project:

00-6651-001.00

Received:

04/11/2001 17:12

3820 San Leandro

Extracted:

04/16/2001 11:59

Sampled:

04/10/2001 15:10

QC-Batch:

2001/04/16-01.02

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	15000	2500	ug/L	50.00	04/16/2001 11:59	· · · · · · · · · · · · · · · · · · ·
Benzene	4500	25	ug/L	50.00	04/16/2001 11:59	
Toluene	27	25	ug/L	50.00	04/16/2001 11:59	
Ethyl benzene	320	25	ug/L	50.00	04/16/2001 11:59	
Xylene(s)	140	25	ug/L	50.00	04/16/2001 11:59	
MTBE	8800	250	ug/L	50.00	04/16/2001 11:59	
Surrogate(s)	ļ		}			
Trifluorotoluene	110.2	58-124	%	1.00	04/16/2001 11:59	
4-Bromofluorobenzene-FID	95.2	50-150	%	1.00	04/16/2001 11:59	

Submission #: 2001-04-0251

Environmental Services (CA 1094)

To: ACC Environmental Consultants

Test Method: 8015M

8020

Attn.: Dave DeMent

MB:

Prep Method:

5030

Batch QC Report Gas/BTEX and MTBE

Method Blank Water

2001/04/13-01.01-003

QC Batch # 2001/04/13-01.01

Date Extracted: 04/13/2001 08:07

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	04/13/2001 08:07	
Benzene	ND	0.5	ug/L	04/13/2001 08:07	
Toluene	ND	0.5	ug/L	04/13/2001 08:07	
Ethyl benzene	ND	0.5	ug/L	04/13/2001 08:07	
Xylene(s)	ND	0.5	ug/L	04/13/2001 08:07	
MTBE	ND	5.0	ug/L	04/13/2001 08:07	
Surrogate(s)					
Trifluorotoluene	107.2	58-124	%	04/13/2001 08:07	
4-Bromofluorobenzene-FID	76.5	50-150	%	04/13/2001 08:07	

Submission #: 2001-04-0251

Environmental Services (CA 1094)

To: ACC Environmental Consultants

Test Method: 8015M

8020

Attn.: Dave DeMent

Prep Method:

5030

Batch QC Report Gas/BTEX and MTBE

Method Blank Water

QC Batch # 2001/04/16-01.02

MB:

2001/04/16-01.02-003

Date Extracted: 04/16/2001 08:18

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	04/16/2001 08:18	
Benzene	ND	0.5	ug/L	04/16/2001 08:18	
Toluene	ND	0.5	ug/L	04/16/2001 08:18	
Ethyl benzene	ND	0.5	ug/L	04/16/2001 08:18	
Xylene(s)	ND	0.5	ug/L	04/16/2001 08:18	
MTBE	ND	5.0	ug/L	04/16/2001 08:18	
Surrogate(s)	Í				
Trifluorotoluene	122.4	58-124	%	04/16/2001 08:18	
4-Bromofluorobenzene-FID	105.7	50-150	%	04/16/2001 08:18	

Submission #: 2001-04-0251

Environmental Services (CA 1094)

To: ACC Environmental Consultants

Test Method:

8020

Attn: Dave DeMent

Prep Method:

5030

Batch QC Report

Gas/BTEX and MTBE

 LCS:
 2001/04/13-01.01-004
 Extracted:
 04/13/2001 08:39
 Analyzed
 04/13/2001 09:12

 LCSD:
 2001/04/13-01.01-005
 Extracted:
 04/13/2001 09:12
 Analyzed
 04/13/2001 09:12

Compound	Conc.	[ug/L]	Exp.Conc.	[ug/L]	Recov	ery [%]	RPD	Ctrl. Lim	ts [%]	Flags		
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD	
Benzene	111	112	100.0	100.0	111.0	112.0	0.9	77-123	20			
Toluene	110	109	100.0	100.0	110.0	109.0	0.9	78-122	20		ł	
Ethyl benzene	104	105	100.0	100	104.0	105.0	1,0	70-130	20		ļ	
Xylene(s)	323	326	300	300	107.7	108.7	0.9	75-125	20			
Surrogate(s) Trifluorotoluene	595	592	500	500	119.0	118.4		58-124				

Submission #: 2001-04-0251

Environmental Services (CA 1094)

To: ACC Environmental Consultants

Test Method:

8015M

8020

Attn: Dave DeMent

Prep Method:

5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2001/04/13-01.01

LCS:

2001/04/13-01.01-006

Extracted: 04/13/2001 09:45

Analyzed

04/13/2001 09:45

LCSD:

2001/04/13-01.01-007

Extracted: 04/13/2001 10:17

Analyzed

04/13/2001 10:17

Compound	Conc.	[ug/L]	Exp.Conc.	[ug/L]	Recovery [%]		Recovery [%]		Recovery [%]		Recovery [%]		Recovery [%] R		RPD Ctrl. Limits [%]			Fla	ags
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD								
Gasoline	486	451	500	500	97.2	90.2	7.5	75-125	20										
Surrogate(s) 4-Bromofluorobenzene-FI	352	352	500	500	70.4	70.4		50-150											

Environmental Services (CA 1094)

To: ACC Environmental Consultants

Test Method:

8020

Submission #: 2001-04-0251

Attn: Dave DeMent

Prep Method:

5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2001/04/16-01.02

LCS:

2001/04/16-01.02-004

Extracted: 04/16/2001 08:49

Analyzed 04/1

04/16/2001 08:49

LCSD:

2001/04/16-01.02-005

Extracted: 04/16/2001 09:20

Analyzed

04/16/2001 09:20

Compound	Conc.	[ug/L]	Exp,Conc,	[ug/L]	Recov	егу [%]	RPD	Ctrl. Lim	its [%]	Fla	gs
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	104	96.8	100.0	100.0	104.0	96,8	7.2	77-123	20		
Toluene	106	98.4	100.0	100.0	106.0	98.4	7.4	78-122	20		
Ethyl benzene	103	97.0	100.0	100.0	103.0	97.0	6.0	70-130	20		
Xylene(s)	296	278	300	300	98.7	92.7	6.3	75-125	20		
Surrogate(s) Trifluorotoluene	601	555	500	500	120.2	111.0	l l	58-124			

Submission #: 2001-04-0251

Environmental Services (CA 1094)

To: ACC Environmental Consultants

Test Method:

8015M

8020

Attn: Dave DeMent

Prep Method:

5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2001/04/16-01.02

LCS:

2001/04/16-01.02-006

Extracted: 04/16/2001 09:51

Analyzed

04/16/2001 09:51

LCSD:

2001/04/16-01.02-007

Extracted: 04/16/2001 10:22

Analyzed

04/16/2001 10:22

Compound	Conc.	[ug/L]	Exp.Conc.	[ug/L]	Recovery [%]		Recovery [%]		Recovery [%]		Recovery [%]		Recovery [%]		Recovery [%]		RPD	Ctrl. Limits [%]		Fla	gs
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD										
Gasoline	493	493	500	500	98.6	98.6	0.0	75-125	20		1										
Surrogate(s) 4-Bromofluorobenzene-FI	527	523	500	500	105.4	104.6		50-150													

Surrogate(s)
Trifluorotoluene

Environmental Services (CA 1094)

To: ACC Environmental Consultants

559

517

sultants Test Method: 8020

Submission #: 2001-04-0251

Attn.: Dave DeMent Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Matrix Spike (MS / MSD) Water QC Batch # 2001/04/13-01.01

Sample ID: MW-1 Lab Sample ID: 2001-04-0251-001

MS: 2001/04/13-01.01-019 Extracted: 04/13/2001 17:16 Analyzed: 04/13/2001 17:16 Dilution: 1.0 MSD: 2001/04/13-01.01-020 Extracted: 04/13/2001 17:49 Analyzed: 04/13/2001 17:49 Dilution: 1.0

Conc. [ug/L] Recovery [%] RPD Compound Exp.Conc. [ug/L] Ctrl. Limits [%] Flags MS MSD Sample MS MSD MS MSD RPD MSD [%] Recovery MS 107.4 Benzene 111 108 3.59 100.0 100,0 108.0 0.6 65-135 20 Toluene 106 105 1.15 100.0 100.0 104.9 105.0 0.1 65-135 20 1.24 100.0 102.8 Ethyl benzene 104 101 100 101.0 1.8 65-135 20 306 303 300 300 102.0 101.0 1.0 65-135 20 Xylene(s)

500

111.8

103.4

58-124

500

Printed on: 04/17/2001 14:06

Submission #: 2001-04-0251

Environmental Services (CA 1094)

ACC Environmental Consultants

Test Method: 8015M

8020

Attn.: Dave DeMent

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Matrix Spike (MS/MSD)

Water

QC Batch # 2001/04/13-01.01

Sample ID: MW-1

Lab Sample ID: 2001-04-0251-001

MS:

2001/04/13-01.01-021 Extracted: 04/13/2001 18:22 Analyzed: 04/13/2001 18:22 Dilution: 1.0

MSD:

2001/04/13-01.01-022Extracted: 04/13/2001 18:54 Analyzed: 04/13/2001 18:54 Dilution: 1.0

Compound	[1	ıg/L]	Exp.Conc.	[ug/L]	Recov	ery [%]	RPD	Ctrl. Limi	ts [%]	Flags		
	мѕ	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	673	518	318	500	500	71.0	40.0	55.9	65-135	20		rpd
Surrogate(s)									.			
4-Bromofluorobenzene-F	68.7	250	}	500	500	68.7	50.0		50-150		İ	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-04-0251

To: ACC Environmental Consultants

Test Method: 8015M

8020

Attn: Dave DeMent

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

QC Compound Flags

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.

Analyte Flags

g

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

CHROMALAB, INC.

1220 Quarry Lane • Pleasanton, California 94566-4756 (025) 404 1010 - Fox (025) 494 1006

Reference #:	

Chain of Custody

Environm	94)	(923) 404-1919 • Fax (923) 404-1090								Ū	DATE 7/11/0 PAGE OF									ır					
PROJ. MGR DAVE	De	Ment			g i e i i i i i i i i i i i i i i i i i	o to the second	e tradeurs		A	10 . 21		. Se	ANA	LYSIS	iliji T	Ħt			an Salada An Salada		a suda asa			782 - B	
COMPANY ACC ADDRESS 7977 OAK	Env. Gy Gyd	Lons well C4	Urn 9461		15,8020) TEX XMTBE	PURGEABLE AROMATICS BTEX (EPA 8020)	PA.8015M)	301.5IM) 1. 🗆 Other	FURGEABLE HALOCARBONS, (HVOCs) (EPA 8010)	RGANICS A 8260)	ES	ND GREASE		(EPA 8080) 8080)	8270 8310		S: í, Zn	TALS 70/7471)	•	1.0)	Chromium old time for H20)				ONTAINERS
SAMPLE ID.	し、大助性) 638- -839- -839 MATHIX	HONE NO.) 19406 AX NO.) 18404 FRESERV.	TPH-(EPA 8015,8020)	PURGEABLE / BTEX (EPA	TPH-Diese! (EPA.8015M)	· TEPE (EPA 8015M) · © Diesel © M.O. 🛭 Other	PURGEABLE (HVOCs) (EF	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMIVOLATILES (EPA 8270)	TOTAL OIL AND (SM 5520 8+F.		CI PESTICIDES(EPA 8080)	PNA's by □ 8270 □ 8310	C Spec. Cond. C TSS C TDS	LUFT METALS: Cd. Cr. Pb. Ní. Zn	CAM'17 METALS (EPA 6010/7470/74:	TOTAL LEAD	C W.E.T. (STLC) C TCLP	C pH (24 hr hold time for				NUMBER OF CONTAINERS
mw-1	4/10/01	14:40	Water	14/10/0	X			,	L	<u></u>															3
MW-2 MW-3		17:30			X								,												3
MW-3	1	15:10	•	4	X																				3
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PHOJECT INFORM	Atlun			LE HECEI			FELI	IODICH	ED/BY				REI	UNGUIS	SHED B	J	<u>L.,</u>	l	2.	HELINO	UISHE	BY	l		<u>L</u> :
PROJECT HAME- 3820 SAN LE PROJECT HUMBER 00-6651-801.	medi	HEAD	NO OF CO	NTAINERS				ATURE)	<u> </u>			TIME		NATURE	<u> </u>			<u>_</u>	IME)	(SIGNAT)	JHE)				(TIK)E
]	ERATURE				D (PRIN	ED NAM	<u>\\</u>	Me	<u>+</u>	4/11/0	/ IPPI	MIED H	AMEI	 .		<u></u>	ĀĪĒ						
P.O. 6651-1.0	 r	COLLEG	RMS 10 N	ECOND			COM	KE	hu. C	ms	box	13		MPATIY		·	··		_						(DATE
TAT STANDARD 24 40 72 OTHER				IER		IVED B	Y				-	CEIVED						DECEIV		LABOR	ATORYA				
SPECIAL INSTRUCTIONS/COMMENTS: Report: Routine Level 2 Level 3 Level 4 Electronic Report						1455												NECEIVED BY (LABORATORY)							
Well SAngle	MW	-2 h	al s	light	Flo	r,	ISIGN	ATURE)	Tor	Con	4/11	' (піме́)	lesig	(INE) (INE)						(SIGNATURE) finale					
This is The	su	and s	SAMP	ing en	رس	r'	PRINTED DAUGH (DATE)				(PF8	(DATE)					ATE)	(DATE							
Well saugle MW-2 had slight show, This is The second sampling event for this site							(CONLANI)					100	(COMPANY)						(1/19)						