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HAYWARD FIRE DEPARTMENT

September 24, 2002

Mr. Kelly Engineer  
All Star Inc.  
1791 Pine Street  
Concord, CA 94520

RE: April 2001 Groundwater Monitoring Report  
1220 West Tennyson Road, Hayward, California  
ACC Project No. 01-6651-004.00

Dear Mr. Engineer:

ACC Environmental Consultants, Inc., (ACC) has enclosed two copies of the Groundwater Sampling and Monitoring Report. If you have any questions regarding this report or the findings of the work, please contact me at (510) 638-8400, extension 109.

On your behalf, a copy of this report has been submitted to the Hayward Fire Department for review.

Sincerely,

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

/trb:drd

Enclosures



**APRIL 2001  
GROUNDWATER  
MONITORING  
REPORT**

September 24, 2002

1220 West Tennyson Road  
Hayward, California

Prepared For:  
Mr. Kelly Engineer  
All Star Inc.  
1791 Pine Street  
Concord, CA

OAKLAND ▪ SACRAMENTO  
SEATTLE ▪ LOS ANGELES

ACC Project No. 01-6651-004.00

**APRIL 2001 GROUNDWATER MONITORING REPORT**

**1220 West Tennyson Road  
Hayward, California**

*ACC Project No. 01-6651-004.00*

Prepared for:

Mr. Kelly Engineer  
All Star Inc.  
1791 Pine Street  
Concord, CA 94520

September 24, 2002

Prepared by:



Trevor Bausman  
Project Administrator

Reviewed by:



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



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**APRIL 2001 GROUNDWATER MONITORING REPORT**  
**1220 West Tennyson Road**  
**Hayward, California**

## **1.0 INTRODUCTION**

This April 2001 Groundwater Sampling and Monitoring Report was prepared by ACC Environmental Consultants, Inc., (ACC) at the request of Kelly Engineer and All Star Inc., to describe work performed at 1220 West Tennyson Road, Hayward, California (Site). The project objectives were to purge and sample three groundwater monitoring wells and one observation well, calculate groundwater gradient and flow direction, and characterize concentrations of petroleum hydrocarbons in groundwater in the vicinity of four former underground storage tanks (USTs).

## **2.0 BACKGROUND**

The subject site is located on the southwest corner of West Tennyson Road and Pompano Street, Hayward, California (Figure 1). The site is currently occupied by an operating gasoline and automobile repair facility. The following information was obtained during file review at the City of Hayward Fire Department.

Environmental Geotechnical Consultants, Inc. removed one 6,000-gallon and three 4,000-gallon USTs from the site in October 1990. Four new USTs were subsequently installed at the site. One groundwater and eight soil samples were collected from the tank pit during removal of the USTs. Analysis of the soil samples revealed the presence of total petroleum hydrocarbons as gasoline (TPHg) at 4,300 parts per million (ppm), benzene at 29,000 parts per billion (ppb), toluene at 160,000 ppb, ethylbenzene at 68,000 ppb and total xylenes at 280,000 ppb. Analysis of the groundwater sample revealed the presence of TPHg at 26 ppm, benzene at 2,400 ppb, toluene at 1,800 ppb and total xylenes at 5,200 ppb.

Artesian Environmental Consultants (Artesian) performed a subsurface investigation at the Site in March 1992. Three soil borings were drilled at the Site and converted into groundwater monitoring wells (MW-1, MW-2 and MW-3). Analysis of seven soil samples collected from the borings revealed the presence of TPHg at 680 ppm, benzene at 8,100 ppb, toluene at 15,000 ppb, ethylbenzene at 11,000 ppm and total xylenes at 73,000 ppb. Analyses of soil samples collected from the tank pit revealed the presence of TPHg at 2,900 ppm, benzene at 12,000 ppm, toluene at 160,000 ppm, ethylbenzene at 35,000 ppb and total xylenes at 420,000 ppb. Analyses of groundwater samples collected from the groundwater monitoring wells revealed the presence of TPHg at 59,000 ppb, benzene at 13,000 ppb, toluene at 12,000 ppb, ethylbenzene at 1,600 ppb and total xylenes at 13,000 ppb.

The City of Hayward has requested additional site investigation and remediation at the Site.

### 3.0 GROUNDWATER SAMPLING AND MONITORING

ACC conducted groundwater sampling and monitoring on April 11, 2001. Work at the site included measuring depth to water, subjectively evaluating groundwater in the wells, purging and sampling the wells, and submitting the samples to a laboratory for analysis.

#### 3.1 Groundwater Monitoring

Before groundwater sampling, the depth to the surface of the water table was measured from the top of the well casing using a Solinst water level meter. The water level measurements were recorded to the nearest 0.01 foot with respect to mean sea level (MSL). Worksheets of recorded groundwater monitoring data are included as Appendix 1. Information regarding well elevations and groundwater depths is summarized in Table 1.

**TABLE 1 - GROUNDWATER DEPTH INFORMATION**

Well No.	Well Elevation* (above MSL)	Date Measured	Depth to Groundwater	Groundwater Elevation
MW-1	21.86	04/07/92	10.08	11.78
		04/11/01	10.54	11.32
MW-2	21.56	04/07/92	9.49	12.07
		04/11/01	9.67	11.89
MW-3	20.54	04/07/92	10.64	9.90
		4/11/01	11.40	9.14

Notes: All measurements in feet

\*Well elevation measured to top of casing

#### 3.2 Groundwater Gradient

The groundwater flow direction, as determined from monitoring well data obtained on April 11, 2001, is illustrated on Figure 3. The well elevations above mean seal level were reported by Artesian in its *Subsurface Investigation Report* dated April 1992. Based on groundwater elevation calculations, groundwater flow direction is toward the south at an average gradient of 0.031 foot/foot. Table 2 summarizes previous gradients and calculated flow directions.

**TABLE 2 - GROUNDWATER GRADIENT AND FLOW DIRECTION**

Date Monitored	Gradient (foot/foot)	Direction
04/07/92	0.025	south-southeast
04/11/01	0.031	south

### 3.3 Groundwater Sampling

Before groundwater sampling, each well was purged using a disposable polyethylene bailer. Groundwater samples were collected when temperature, pH, and conductivity of the water stabilized and a minimum of four well casing volumes of water had been removed. Following purging, each well was allowed to recharge before sampling. When recovery to 80 percent of the static water level was observed, a sample was collected for analysis. Groundwater was also monitored for dissolved oxygen (DO).

Wells were sampled using disposable polyethylene bailers attached to new rope for each well. From each monitoring well, approved, laboratory-supplied sample vials were filled to overflowing and sealed to eliminate trapped air in the vial. Once filled, sample vials were inverted and tapped to test for air bubbles. Sample containers were labeled with self adhesive, preprinted tags. The samples were stored in a prechilled, insulated container pending delivery to Chromalab, Inc. (Chromalab), a state-certified laboratory for analysis.

Water purged prior to sampling the monitoring wells was temporarily stored on site in Department of Transportation-approved 55-gallon drums pending laboratory analysis and proper disposal.

### 4.0 RESULTS OF GROUNDWATER SAMPLING

Groundwater samples from monitoring wells MW-1, MW-2, MW-3 and observation well OB-2 were collected and submitted to Chromalab for analysis of TPHg, BTEX, and MTBE by EPA Method 5030/8015M/8020. ACC also analyzed the sample from well MW-3 for fuel oxygenates by EPA Method 8260B. Reported concentrations were 1,500 MTBE and 760 ppb tert-Butyl alcohol (TBA). Analytical results from the groundwater samples are summarized in Table 3. A copy of the analytical results and chain of custody record for groundwater samples is included as Appendix 2.

**TABLE 3 - GROUNDWATER SAMPLE ANALYTICAL RESULTS**

Well No.	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE* (µg/L)	TBA* (µg/L)
MW-1	04/07/92	< 50	2.1	0.56	<0.5	1.4	NA	NA
	04/11/01	< 50	<0.5	<0.5	<0.5	<0.5	<5.0	NA
MW-2	04/07/92	2,100	450	200	45	360	NA	NA
	04/11/01	<5,000	< 50	< 50	< 50	150	5,200	NA
MW-3	04/07/92	59,000	13,000	12,000	1,600	13,000	NA	NA
	04/11/01	4,800	<5.0	5.1	320	<5	760	1,500

Notes: µg/L = micrograms per liter (approximately equivalent to ppb)  
NA = Not analyzed

## 5.0 DISCUSSION

This sampling event represents the second periodic groundwater monitoring event conducted since the wells were installed in March 1992. The calculated groundwater flow direction and gradient were south at 0.031. These values are similar to the initial flow direction and gradient reported by Artesian Environmental in April 1992.

Relatively minor concentrations of TPHg and BTEX were reported in wells MW-1 and MW-2. MTBE was reported in well MW-2 at 5,200 ppb and the presence of elevated MTBE caused the laboratory to have to dilute the sample and raise the reporting limits. Varying concentrations of TPHg, BTEX, and MTBE were reported in well MW-3 located downgradient of the USTs.

For information purposes, ACC collected grab water samples from the 4-inch-diameter observation well designated OB-2. ACC has not reviewed any information regarding when or why the observation wells were installed. Observation well OB-2 reported TPHg, total xylenes and MTBE at concentrations of 65,000 ppb, 1,200 ppb and 100,000 ppb respectively. These values are estimated to be skewed in the same manner grab groundwater samples are typically skewed upward, and may not be representative of residual dissolved petroleum hydrocarbon concentrations in groundwater.

## 6.0 CONCLUSIONS

Based on the results of groundwater sampling and monitoring performed at 1220 West Tennyson Road in April 2001, ACC concludes the following:

- Groundwater gradient and flow direction were calculated at 0.031 foot/foot to the south;
- The three groundwater monitoring wells appear to be properly constructed and screened above and through the saturated soil zone at each well location;
- ACC groundwater sample analytical results indicate that groundwater across the majority of the site are impacted by residual concentrations of weathered, residual petroleum hydrocarbons, and that no significant source appears to be present;
- ACC groundwater sample analytical results are dramatically lower than the April 1992 sampling event and generally indicate that natural attenuation processes are decreasing dissolved concentrations of petroleum hydrocarbons; and
- With the exception of MTBE, groundwater impact is greatest in monitoring well MW-3, located immediately downgradient of the USTs and southern dispenser island.



## 7.0 RECOMMENDATIONS

Based on the conclusions of previous investigation and recent groundwater monitoring performed, ACC recommends:

- Instituting quarterly groundwater monitoring in wells MW-1, MW-2, and MW-3;
- Analyzing future water samples for TPHg, BTEX, and the five fuel oxygenates and two scavengers by EPA Method 8260; and
- Collecting additional subsurface investigation and groundwater monitoring data, and preparing and submitting a Corrective Action Plan.

The next monitoring event is scheduled for July 2001.

## 8.0 LIMITATIONS

The service performed by ACC has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

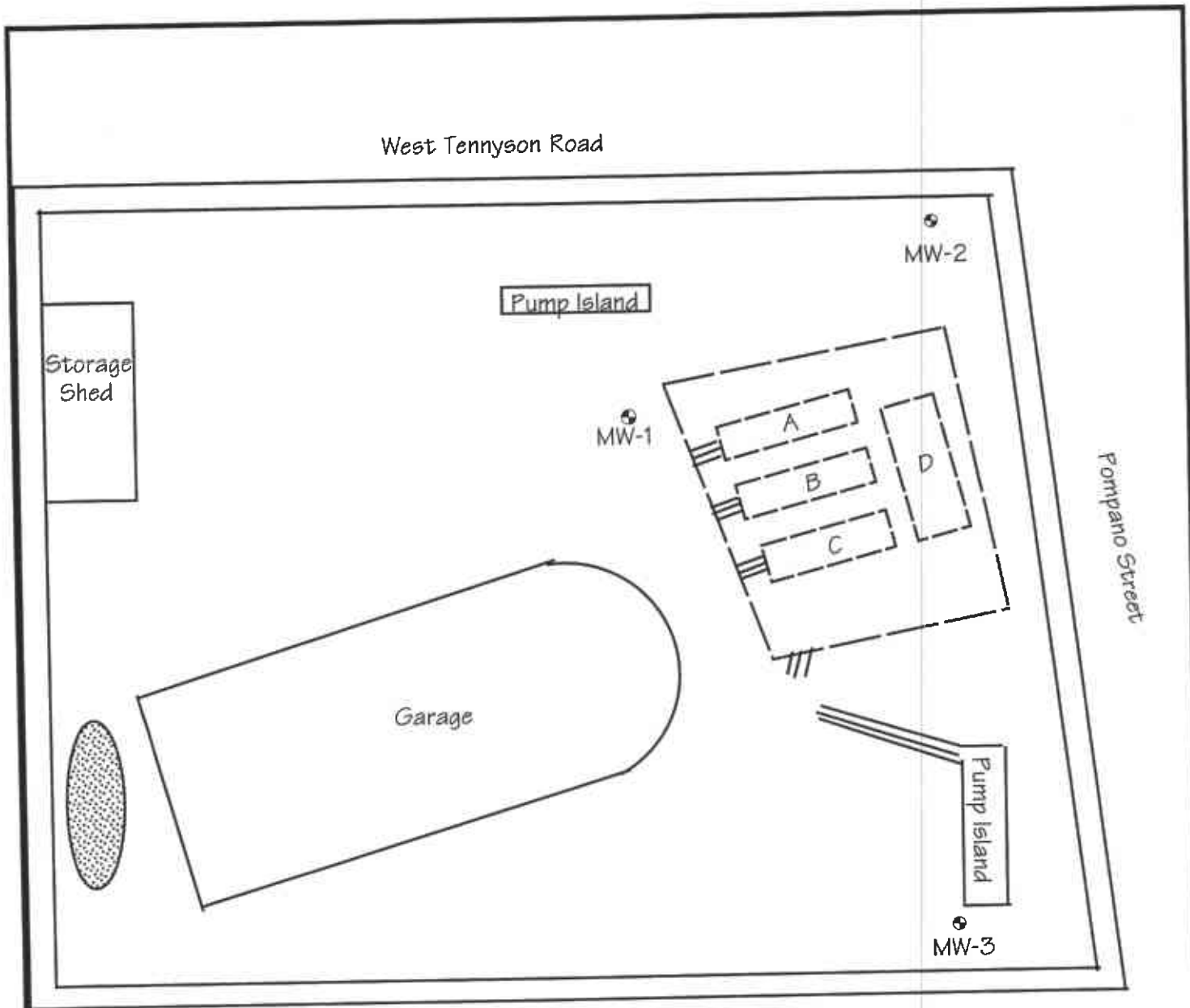
The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study.

ACC has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the U.S. Environmental Protection Agency and the State of California. ACC is not responsible for laboratory errors in procedure or result reporting.

**FIGURES**





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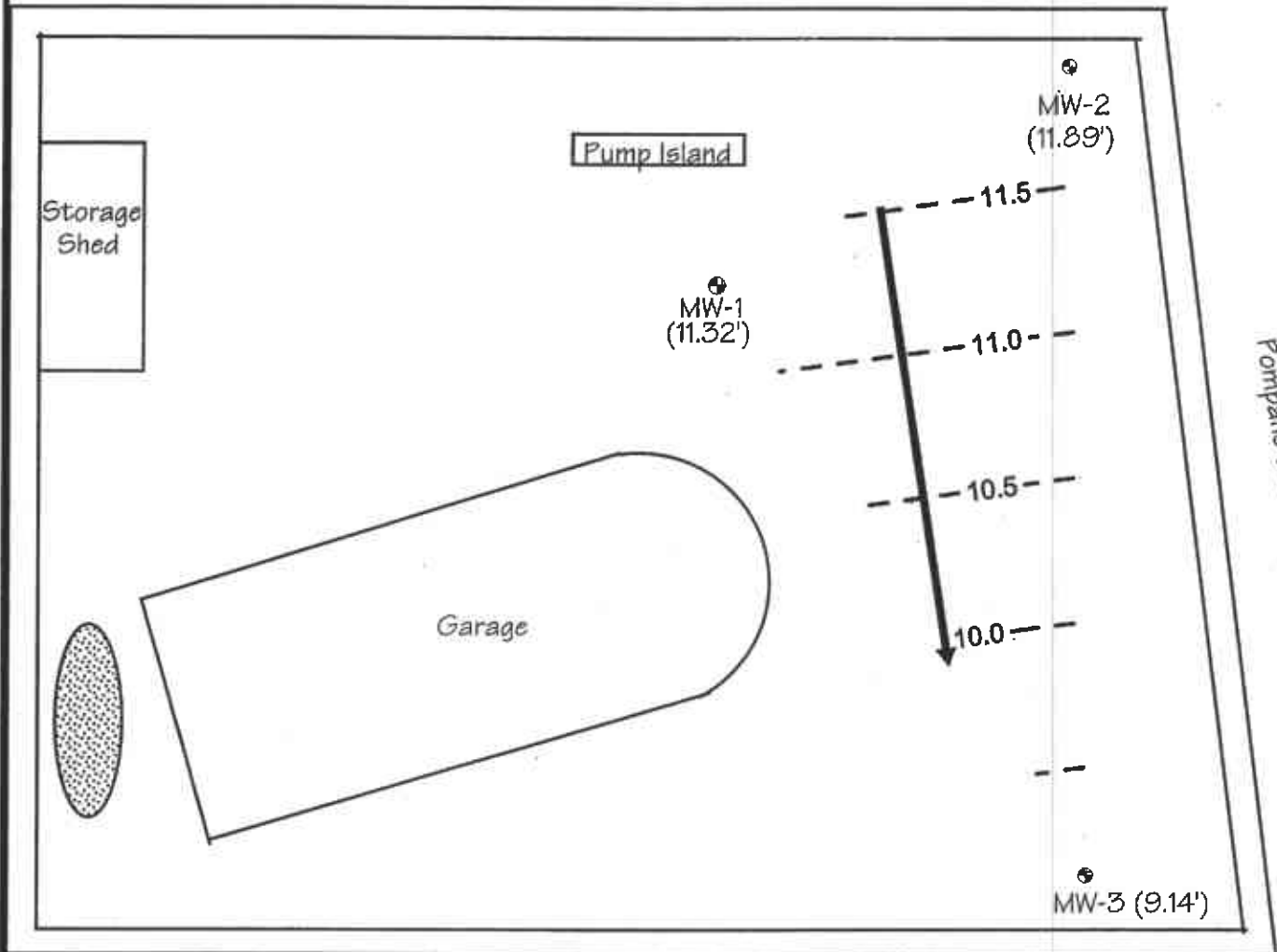
Mantilla Avenue

**Legend**

-  Excavated Soil Pile
-  Groundwater Monitoring Well Location
-  Area of Excavation
-  Approximate Former Tank Location






Title: <b>Site Map</b> 1220 W. Tennyson Ave. Hayward, California	
Figure Number: 2	Scale: 1" = 20'
Project Number: 6551-004.00	Drawn By: EJG
 <b>A·C·C</b> ENVIRONMENTAL CONSULTANTS	Date: 9/20/02
	
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax (510) 638-8404	

West Tennyson Road



Mantilla Avenue

**Legend**

-  Excavated Soil Pile
-  Groundwater Monitoring Well Location (Groundwater Elevation in Feet Above MSL)
-  MW-3 (9.14')
-  Approximate Groundwater Flow Direction
-  Groundwater Elevation Contour

Title: <b>Site Map</b> 1220 W. Tennyson Ave. Hayward, California		
Figure Number: <b>3</b>	Scale: 1" = 20'	
Project Number: <b>6551-004.00</b>	Drawn By: <b>EJG</b>	
<b>A·C·C</b> ENVIRONMENTAL CONSULTANTS		Date: <b>9/24/02</b>
		
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax (510) 638-8404		

**APPENDICES**

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Submission#: 2001-04-0252

September 24, 2002

SEVERN

TRENT

LABORATORY

**ACC Environmental Consultants**

7977 Capwell Drive, Suite 100  
Oakland, CA 94621

Attn.: Dave DeMent

Project#: 01-6651-004.00

Project: 1220 W. Tennyson

STL San Francisco  
1220 Quarry Ln  
Pleasanton CA 94566

Tel.: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP#:2496

Dear Mr. DeMent,

Attached is our report for your samples received on 04/11/2001 17:12

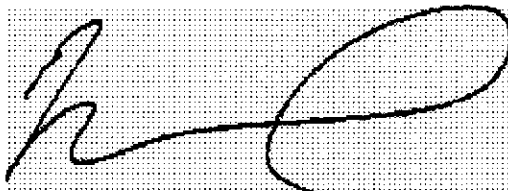
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/26/2001 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](mailto:vvancil@chromalab.com)

Sincerely,

A handwritten signature in black ink on a light gray grid background. The signature is stylized, starting with a large 'V' and ending with a long horizontal stroke that loops back to the right.

Vincent Vancil  
Project Manager



Submission #: 2001-04-0252

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 01-6651-004.00

1220 W. Tennyson

Received: 04/11/2001 17:12

SEVERN

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Pleasanton, CA 94566

Tel: (925) 484-1919  
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www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

### Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-3	04/11/2001	Water	1

Submission #: 2001-04-0252

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

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Oakland, CA 94621

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1220 W. Tennyson

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www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2001-04-0252 - 1
Sampled:	04/11/2001	Extracted:	4/16/2001 13:57
Matrix:	Water	QC Batch#:	2001/04/16-V2.27
Analysis Flag: o ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
tert-Butyl alcohol (TBA)	1500	250	ug/L	50.00	04/16/2001 13:57	
Methyl tert-butyl ether (MTBE)	760	250	ug/L	50.00	04/16/2001 13:57	
Di-isopropyl Ether (DIPE)	ND	500	ug/L	50.00	04/16/2001 13:57	
Ethyl tert-butyl ether (ETBE)	ND	250	ug/L	50.00	04/16/2001 13:57	
tert-Amyl methyl ether (TAME)	ND	250	ug/L	50.00	04/16/2001 13:57	
<b>Surrogates(s)</b>						
1,2-Dichloroethane-d4	99.2	76-114	%	50.00	04/16/2001 13:57	
Toluene-d8	107.0	88-110	%	50.00	04/16/2001 13:57	

Submission #: 2001-04-0252

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 01-6651-004.00

1220 W. Tennyson

Received: 04/11/2001 17:12

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2001/04/16-V2.27-005

Water

Test(s): 8260B

QC Batch # 2001/04/16-V2.27

Date Extracted: 04/16/2001 11:30

Compound	Conc.	RL	Unit	Analyzed	Flag
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/16/2001 11:30	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	04/16/2001 11:30	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/L	04/16/2001 11:30	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/L	04/16/2001 11:30	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/L	04/16/2001 11:30	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	97.2	76-114	%	04/16/2001 11:30	
Toluene-d8	102.6	88-110	%	04/16/2001 11:30	

Submission #: 2001-04-0252

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Received: 04/11/2001 17:12

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2001/04/16-V2.27

LCS 2001/04/16-V2.27-002

Extracted: 04/16/2001

Analyzed: 04/16/2001 09:52

LCSD 2001/04/16-V2.27-003

Extracted: 04/16/2001

Analyzed: 04/16/2001 10:31

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	51.3	50.3	50	102.6	100.6	2.0	65-165	20		
<i>Surrogates(s)</i>										
1,2-Dichloroethane-d4	525	537	500	105.0	107.4		76-114			
Toluene-d8	523	523	500	104.6	104.6		88-110			

Submission #: 2001-04-0252

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
<b>Matrix Spike ( MS / MSD )</b>		<b>Water</b>	<b>QC Batch # 2001/04/16-V2.27</b>
MW-1	>> MS	Lab ID:	2001-04-0252 - 001
MS:	2001/04/16-V2.27-011	Extracted:	04/16/2001
		Analyzed:	04/16/2001 14:37
		Dilution:	50.00
MSD:	2001/04/16-V2.27-012	Extracted:	04/16/2001
		Analyzed:	04/16/2001 15:07
		Dilution:	50.00

Compound	Conc. ug/L			Spk. Level ug/L	Recovery			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	3790	3790	763	2500	121.1	121.1	0.0	65-165	20		
<i>Surrogate(s)</i>											
1,2-Dichloroethane-d4	493	538		500	98.6	107.6		76-114			
Toluene-d8	543	537		500	108.6	107.4		88-110			

Submission #: 2001-04-0252

Fuel Oxygenates by 8260B

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www.chromalab.com

CA DHS ELAP# 2496

### Legend and Notes

#### Analysis Flag

o

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

Submission #: 2001-04-0252

Gas/BTEX and MTBE

ACC Environmental Consultants

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www.chromalab.com

CA DHS ELAP# 2496

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-3	04/11/2001	Water	1
OB-2	04/11/2001	Water	2
MW-2	04/11/2001	Water	3
MW-1	04/11/2001 17:30	Water	4

Submission #: 2001-04-0252

Gas/BTEX and MTBE

ACC Environmental Consultants

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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030	Test(s):	8015M
	5030		8020
Sample ID:	MW-3	Lab ID:	2001-04-0252 - 1
Sampled:	04/11/2001	Extracted:	4/13/2001 20:32
Matrix:	Water	QC Batch#:	2001/04/13-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4800	500	ug/L	10.00	04/13/2001 20:32	
Benzene	ND	5.0	ug/L	10.00	04/13/2001 20:32	
Toluene	5.1	5.0	ug/L	10.00	04/13/2001 20:32	
Ethyl benzene	320	5.0	ug/L	10.00	04/13/2001 20:32	
Xylene(s)	ND	5.0	ug/L	10.00	04/13/2001 20:32	
<b>Surrogates(s)</b>						
Trifluorotoluene	103.3	58-124	%	10.00	04/13/2001 20:32	
4-Bromofluorobenzene-FID	66.9	50-150	%	10.00	04/13/2001 20:32	



Submission #: 2001-04-0252

Gas/BTEX and MTBE

ACC Environmental Consultants

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1220 W. Tennyson

Received: 04/11/2001 17:12



STL San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566

Tel: (925) 484-1919  
Fax: (925) 484-1096  
www.stl-inc.com  
www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	5030	Test(s):	8015M
	5030		8020
Sample ID:	OB-2	Lab ID:	2001-04-0252 - 2
Sampled:	04/11/2001	Extracted:	4/16/2001 12:30
Matrix:	Water	QC Batch#:	2001/04/16-01.02

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	65000	50000	ug/L	1000.00	04/16/2001 12:30	
Benzene	ND	500	ug/L	1000.00	04/16/2001 12:30	
Toluene	ND	500	ug/L	1000.00	04/16/2001 12:30	
Ethyl benzene	ND	500	ug/L	1000.00	04/16/2001 12:30	
Xylene(s)	1200	500	ug/L	1000.00	04/16/2001 12:30	
MTBE	100000	5000	ug/L	1000.00	04/16/2001 12:30	
<b>Surrogates(s)</b>						
Trifluorotoluene	111.9	58-124	%	1.00	04/16/2001 12:30	
4-Bromofluorobenzene-FID	92.9	50-150	%	1.00	04/16/2001 12:30	

Submission #: 2001-04-0252

Gas/BTEX and MTBE

ACC Environmental Consultants  
Attn.: Dave DeMent  
7977 Capwell Drive, Suite 100  
Oakland, CA 94621  
Phone: (510) 638-8400 Fax: (510) 638-8404  
Project: 01-6651-004.00  
1220 W. Tennyson

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CA DHS ELAP# 2496

Prep(s):	5030	Test(s):	8015M
	5030		8020
Sample ID:	MW-2	Lab ID:	2001-04-0252 - 3
Sampled:	04/11/2001	Extracted:	4/16/2001 14:50
Matrix:	Water	QC Batch#:	2001/04/16-01.02

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	5000	ug/L	100.00	04/16/2001 14:50	
Benzene	ND	50	ug/L	100.00	04/16/2001 14:50	
Toluene	ND	50	ug/L	100.00	04/16/2001 14:50	
Ethyl benzene	ND	50	ug/L	100.00	04/16/2001 14:50	
Xylene(s)	150	50	ug/L	100.00	04/16/2001 14:50	
MTBE	5200	500	ug/L	100.00	04/16/2001 14:50	
<b>Surrogates(s)</b>						
Trifluorotoluene	110.2	58-124	%	100.00	04/16/2001 14:50	
4-Bromofluorobenzene-FID	93.7	50-150	%	100.00	04/16/2001 14:50	

Submission #: 2001-04-0252

Gas/BTEX and MTBE

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CA DHS ELAP# 2496

Prep(s):	5030	Test(s):	8015M
	5030		8020
Sample ID:	MW-1	Lab ID:	2001-04-0252 - 4
Sampled:	04/11/2001 17:30	Extracted:	4/17/2001 18:35
Matrix:	Water	QC Batch#:	2001/04/17-01.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/17/2001 18:35	
Benzene	ND	0.50	ug/L	1.00	04/17/2001 18:35	
Toluene	ND	0.50	ug/L	1.00	04/17/2001 18:35	
Ethyl benzene	ND	0.50	ug/L	1.00	04/17/2001 18:35	
Xylene(s)	ND	0.50	ug/L	1.00	04/17/2001 18:35	
MTBE	ND	5.0	ug/L	1.00	04/17/2001 18:35	
<b>Surrogates(s)</b>						
Trifluorotoluene	99.4	58-124	%	1.00	04/17/2001 18:35	
4-Bromofluorobenzene-FID	59.6	50-150	%	1.00	04/17/2001 18:35	

Submission #: 2001-04-0252

Gas/BTEX and MTBE

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Project: 01-6651-004.00

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Received: 04/11/2001 17:12

SEVERN

TRENT

LABORATORY

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2001/04/13-01.01-003

Water

Test(s): 8015M

QC Batch # 2001/04/13-01.01

Date Extracted: 04/13/2001 08:07

Compound	Conc.	RL	Unit	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	
<b>Surrogates(s)</b>					
Trifluorotoluene	107.2	58-124	%	04/13/2001 08:07	
4-Bromofluorobenzene-FID	76.5	50-150	%	04/13/2001 08:07	

Submission #: 2001-04-0252

Gas/BTEX and MTBE

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2001/04/16-01.02-003

Water

Test(s): 8015M

QC Batch # 2001/04/16-01.02

Date Extracted: 04/16/2001 08:18

Compound	Conc.	RL	Unit	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	
<b>Surrogates(s)</b>					
Trifluorotoluene	122.4	58-124	%	04/16/2001 08:18	
4-Bromofluorobenzene-FID	105.7	50-150	%	04/16/2001 08:18	

Submission #: 2001-04-0252

Gas/BTEX and MTBE

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2001/04/17-01.03-003

Water

Test(s): 8015M

QC Batch # 2001/04/17-01.03

Date Extracted: 04/17/2001 08:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/17/2001 08:20	
Benzene	ND	0.5	ug/L	04/17/2001 08:20	
Toluene	ND	0.5	ug/L	04/17/2001 08:20	
Ethyl benzene	ND	0.5	ug/L	04/17/2001 08:20	
Xylene(s)	ND	0.5	ug/L	04/17/2001 08:20	
MTBE	ND	5.0	ug/L	04/17/2001 08:20	
<b>Surrogates(s)</b>					
Trifluorotoluene	109.4	58-124	%	04/17/2001 08:20	
4-Bromofluorobenzene-FID	83.5	50-150	%	04/17/2001 08:20	

Submission #: 2001-04-0252

Gas/BTEX and MTBE

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CA DHS ELAP# 2496

Batch QC Report					
Prep(s): 5030			Test(s): 8020		
Laboratory Control Spike		Water		QC Batch # 2001/04/13-01-01	
LCS	2001/04/13-01-01-004	Extracted:	04/13/2001	Analyzed:	04/13/2001 08:39
LCSD	2001/04/13-01-01-005	Extracted:	04/13/2001	Analyzed:	04/13/2001 09:12

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	111	112	100.0	111.0	112.0	0.9	77-123	20		
Toluene	110	109	100.0	110.0	109.0	0.9	78-122	20		
Ethyl benzene	104	105	100.0	104.0	105.0	1.0	70-130	20		
Xylene(s)	323	326	300	107.7	108.7	0.9	75-125	20		
<b>Surrogates(s)</b>										
Trifluorotoluene	595	592	500	119.0	118.4		58-124			

Submission #: 2001-04-0252

Gas/BTEX and MTBE

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Project: 01-6651-004.00

1220 W. Tennyson

Received: 04/11/2001 17:12

SEVERN

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030  
5030

Test(s): 8015M  
8020

Laboratory Control Spike

Water

QC Batch # 2001/04/13-01.01

LCS 2001/04/13-01.01-006

Extracted: 04/13/2001

Analyzed: 04/13/2001 09:45

LCSD 2001/04/13-01.01-007

Extracted: 04/13/2001

Analyzed: 04/13/2001 10:17

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	486	451	500	97.2	90.2	7.5	75-125	20		
<i>Surrogates(s)</i> 4-Bromofluorobenzene-FID	352	352	500	70.4	70.4		50-150			



Submission #: 2001-04-0252

Gas/BTEX and MTBE

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Phone: (510) 638-8400 Fax: (510) 638-8404  
Project: 01-6651-004.00  
1220 W. Tennyson

Received: 04/11/2001 17:12

**SEVERN**  
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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report			
Prep(s): 5030		Test(s): 8020	
<b>Laboratory Control Spike</b>		<b>Water</b>	<b>QC Batch # 2001/04/16-01.02</b>
LCS	2001/04/16-01.02-004	Extracted: 04/16/2001	Analyzed: 04/16/2001 08:49
LCSD	2001/04/16-01.02-005	Extracted: 04/16/2001	Analyzed: 04/16/2001 09:20

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	104	96.8	100.0	104.0	96.8	7.2	77-123	20		
Toluene	106	98.4	100.0	106.0	98.4	7.4	78-122	20		
Ethyl benzene	103	97.0	100.0	103.0	97.0	6.0	70-130	20		
Xylene(s)	296	278	300	98.7	92.7	6.3	75-125	20		
<b>Surrogates(s)</b>										
Trifluorotoluene	601	555	500	120.2	111.0		58-124			

Submission #: 2001-04-0252

Gas/BTEX and MTBE

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CA DHS ELAP# 2496

Batch QC Report					
Prep(s): 5030 5030			Test(s): 8015M 8020		
Laboratory Control Spike		Water		QC Batch # 2001/04/16-01.02	
LCS	2001/04/16-01.02-006	Extracted: 04/16/2001		Analyzed: 04/16/2001 09:51	
LCSD	2001/04/16-01.02-007	Extracted: 04/16/2001		Analyzed: 04/16/2001 10:22	

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	493	493	500	98.6	98.6	0.0	75-125	20		
<i>Surrogates(s)</i> 4-Bromofluorobenzene-FID	527	523	500	105.4	104.6		50-150			

Submission #: 2001-04-0252

Gas/BTEX and MTBE

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CA DHS ELAP# 2496

**Batch QC Report**

Prep(s): 5030

Test(s): 8020

**Laboratory Control Spike**

**Water**

**QC Batch # 2001/04/17-01.03**

LCS 2001/04/17-01.03-004

Extracted: 04/17/2001

Analyzed: 04/17/2001 08:51

LCSD 2001/04/17-01.03-005

Extracted: 04/17/2001

Analyzed: 04/17/2001 09:22

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	91.0	93.1	100.0	91.0	93.1	2.3	77-123	20		
Toluene	91.1	93.9	100	91.1	93.9	3.0	78-122	20		
Ethyl benzene	92.4	96.5	100.0	92.4	96.5	4.3	70-130	20		
Xylene(s)	275	285	300	91.7	95.0	3.5	75-125	20		
<b>Surrogates(s)</b>										
Trifluorotoluene	480	507	500	96.0	101.4		58-124			

Submission #: 2001-04-0252

Gas/BTEX and MTBE

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CA DHS ELAP# 2496

Batch QC Report					
Prep(s): 5030					Test(s): 8015M
5030					8020
Laboratory Control Spike		Water			QC Batch # 2001/04/17-01-03
LCS 2001/04/17-01.03-006		Extracted: 04/17/2001			Analyzed: 04/17/2001 09:52
LCSD 2001/04/17-01.03-007		Extracted: 04/17/2001			Analyzed: 04/17/2001 10:23

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	469	452	500	93.8	90.4	3.7	75-125	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene-FID	471	464	500	94.2	92.8		50-150			

687 P03/03 APR 12 '01 09:41

# CHROMALAB, INC.

1220 Quarry Lane • Pleasanton, California 94566-4756  
 (925) 484-1919 • Fax (925) 484-1096

Reference #: \_\_\_\_\_

## Chain of Custody

Environmental Services (SDB) (DOHS 1094)

DATE 4/11/04 PAGE 1 OF 1

PROJ. MGR DAVID DEMENT  
 COMPANY ACC ENVIRONMENTAL  
 ADDRESS 2977 CARWELL  
LAKEVIEW CA 94621

SAMPLERS (SIGNATURE) [Signature] (PHONE NO.) (510) 638-8400  
 (FAX NO.) 638-2404

### ANALYSIS REPORT

SAMPLE ID	DATE	TIME	MATRIX	PURGE	TPH (EPA 8015, 8020) <input type="checkbox"/> Gas w/PA BTEX/SMTBE	PURGEABLE AROMATICS BTX (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPH (EPA 8015M) <input type="checkbox"/> Diesel <input type="checkbox"/> M.O. <input type="checkbox"/> Other	PURGEABLE HALOCARBONS (HVOCs) (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMI-VOLATILES (EPA 8270)	TOTAL OIL AND GREASE (SM 5620 B+F, E+F)	FUEL OBTAINABLES BY 8260	<input type="checkbox"/> PESTICIDES (EPA 8080) <input type="checkbox"/> PCB'S (EPA 8080)	PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> TSS <input type="checkbox"/> TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM-17 METALS (EPA 6010/7470/7471)	TOTAL LEAD	OWET (STLC) OTCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24 hr hold time for H2O)	NUMBER OF CONTAINERS	
MW-1	4/11/04		H <sub>2</sub> O	HCl/CO <sub>2</sub>	X								X										3
<del>MW-2</del>	4/11/04		H <sub>2</sub> O	↓	X																		3
MW-3	4/11/04		H <sub>2</sub> O	↓	X																		3

Change Sample MW-2 TO OB-2, well MW-2 sampled at 17:30

**PROJECT INFORMATION**

PROJECT NAME: 1220 W. TENNYSON

PROJECT NUMBER: 01-6651-004.c0

P.O. # \_\_\_\_\_

**SAMPLE RECEIPT**

TOTAL NO. OF CONTAINERS: 9

HEAD SPACE: 6

TEMPERATURE: COLD

CONFORMS TO RECORD: Y

TAT:  STANDARD 5-DAY  24  40  72  OTHER

**RECEIVED BY**

1. [Signature] (TIME) \_\_\_\_\_ (DATE) 4/11/04

DAVID DEMENT  
ACC ENVIRONMENTAL

2. [Signature] (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

3. [Signature] (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

B. Moron 4/11/04  
SIL-CC

4. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

5. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

6. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

7. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

8. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

9. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

10. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

11. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

12. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

13. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

14. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

15. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

16. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

17. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

18. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

19. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

20. \_\_\_\_\_ (TIME) \_\_\_\_\_ (DATE) \_\_\_\_\_

SPECIAL INSTRUCTIONS/COMMENTS:

Report:  Routine  Level 2  Level 3  Level 4  Electronic Report

+5106388404 ACC ENVIRONMENTAL

