

# AC Transit

Alameda-Contra Costa Transit District

10626 East 14th Street, Oakland, California 94603 ☐ (510) 577-8804

FAX ☐ (510) 577-8859

November 5, 2001



Mr. Barney Chan  
Alameda County Health Division  
Division of Environmental Protection  
Department of Environmental Health  
1131 Harbor Bay Parkway, Second Floor  
Alameda, CA 94502

NOV 08 2001

Dear Mr. Chan:

Subject: Quarterly Groundwater Monitoring Report  
AC Transit, 1100 Seminary Avenue, Oakland, CA

AC Transit hereby submits the enclosed quarterly groundwater monitoring report for the third quarter of 2001 for the AC Transit facility located at 1100 Seminary Avenue in Oakland. Groundwater sampling of monitoring wells MW-1 through MW-3 and MW-9 through MW-11 was performed by Cameron-Cole in accordance with directives from your office.

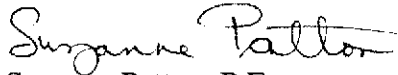
Groundwater samples were collected from the six on-site monitoring wells on July 26, 2001. Samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline and diesel using EPA Method 8015, benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl-tert butyl ether (MTBE) using EPA Method 8260B and nitrate and sulfate using Standard Methods 300.0A. Field parameters collected during sampling included pH, temperature, electrical conductivity, dissolved oxygen, ferrous iron and oxidation reduction potential.

Analytical results of grab water samples showed benzene concentrations above the California maximum contaminant level of 1 ppb in wells MW-2, MW-3 and MW-11 and nondetectable concentrations in wells MW-1, MW-9, and MW-10. Ethylbenzene was detected above the MCL of 700 ppb in well MW-2 at a concentration of 1,300 ppb. Methyl-tert butyl ether (MTBE) was detected above the MCL of 13 ppb in well MW-11 at a concentration of 20 ppb.

These results continue to be consistent with past sampling results. Monthly purging of well MW-2 began in July 2001. This work will be conducted by Cameron-Cole. Prior to purging (using a centrifugal pump), the product and water level in the well would be measured and recorded. Product and water level measurements and volume of water purged would be reported in quarterly monitoring reports. The next quarterly sampling event is scheduled to occur in November 2001.

If you have any questions regarding this report or other matters pertaining to this site, please call me at (510) 577-8869.

Sincerely,

A handwritten signature in cursive script that reads "Suzanne Patton".

Suzanne Patton, P.E.

Environmental Engineer

enclosure

**MONITORING REPORT  
FOR THE AC TRANSIT FACILITY  
LOCATED AT 1100 SEMINARY AVENUE,  
OAKLAND, CALIFORNIA**

August 21, 2001

Ms. Suzanne Patton  
AC Transit  
10626 E. 14<sup>th</sup> Street  
Oakland, California 94603

**Prepared By:**  
Cameron-Cole  
101 W. Atlantic  
Building 90  
Alameda, California 94501

Project No: 2014

NOV 08 2001



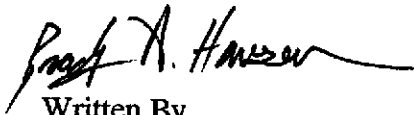
**GROUNDWATER MONITORING  
REPORT FOR THE  
AC TRANSIT FACILITY  
LOCATED AT 1100 SEMINARY AVENUE,  
OAKLAND, CALIFORNIA**

August 21, 2001

**Prepared For:**  
Ms. Suzanne Patton  
AC Transit  
10626 E. 14<sup>th</sup> Street  
Oakland, California 94603

**Prepared By:**  
Cameron-Cole  
101 W. Atlantic Avenue  
Building 90  
Alameda, California 94501


Project No: 2014

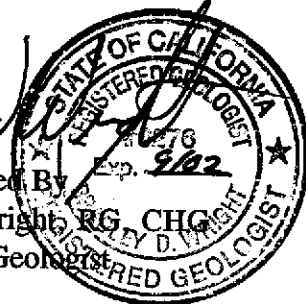


Written By  
Brady Hanson  
Geologist I



Reviewed By  
Greg Pedersen  
Geologist II

  
Approved By  
Brad Wright, RG, CHG  
Senior Geologist



## Table of Contents

INTRODUCTION .....	1
OBJECTIVES AND SCOPE OF WORK.....	1
Groundwater Elevations and Flow Direction.....	1
Groundwater Sampling Activities.....	2
Groundwater Analytical Results.....	2
SUMMARY OF RESULTS .....	3
PROJECTED WORK AND RECOMMENDATIONS .....	3
APPENDIX A.....Certified Analytical Reports and Chain-of-Custody Documentation	
APPENDIX B.....Sampling Event Data Sheets	

### List of Figures

Figure 1	Site Location Map
Figure 2	Potentiometric Surface Map

### List of Tables

Table 1	Groundwater Level Measurements
Table 2	Analytical Results of Groundwater Samples

## **INTRODUCTION**

This report presents the results from the July 2001 sampling event for the AC Transit Facility located at 1100 Seminary Avenue, Oakland, California (Site) (Figure 1). Groundwater sampling of monitor wells MW-1 through MW-3 and MW-9 through MW-11 was performed by Cameron-Cole, in accordance with directives from the Alameda County Health Care Services Agency (ACHCS).

## **OBJECTIVES AND SCOPE OF WORK**

Work performed during quarterly sampling included measuring depth to water and presence of free phase hydrocarbons in the monitor wells and sample collection. Field parameters collected during sampling included pH, temperature, electric conductivity, dissolved oxygen (DO), ferrous iron ( $\text{Fe}^{2+}$ ) and oxygen reduction potential (ORP). Groundwater samples were collected for laboratory analysis using United States Environmental Protection Agency (USEPA) Method 8015 for total petroleum hydrocarbons (TPH) gasoline/diesel, USEPA Method 8260B for benzene, toluene, ethylbenzene, and xylene (BTEX) and methyl-tert butyl ether (MTBE) and methods of chemical analysis for water and waste (MCAWW) 300.0A for nitrate and sulfate.

Chain-of-custody documents and certified analytical reports are presented in Appendix A. Field data sheets are included in Appendix B.

### **Groundwater Elevations and Flow Direction**

Prior to purging and sample collection, all six Site monitor wells were inspected and measured for presence of free phase hydrocarbons and depth to groundwater. Measurements of depths to groundwater are presented on Table 1 and were used to construct the groundwater elevation contours shown in Figure 2. As shown on Figure 2, groundwater flow is to the west at a

gradient of 0.012 feet/foot.

### **Groundwater Sampling Activities**

The monitor wells were purged a minimum of three casing volumes, using a centrifugal pump and samples were collected using disposable polyethylene bailers. During well purging, field parameters for pH, electrical conductivity, DO, ORP and temperature were monitored using calibrated field meters. Due to the very low yield encountered while purging monitoring well MW-11, only two casing volumes were evacuated before it became dry.

Groundwater samples were transferred to appropriate laboratory supplied and preserved containers and placed in an ice-filled cooler for shipment under chain-of-custody to a State of California certified laboratory. A trip blank was submitted for analysis by USEPA Method 8260B.

### **Groundwater Analytical Results**

Table 2 presents groundwater historic and third quarter 2001 analytical results. Concentrations of benzene above the State of California maximum contaminant level (MCL) of 1.0 part per billion (ppb) were detected in monitor wells MW-2, MW-3 and MW-11. MTBE was detected above the MCL of 13 in monitor well MW-11. Ethylbenzene was detected above the MCL of 700 in monitor well MW-2. TPH-Diesel, qualified as "degraded" by the laboratory, was detected above the reporting limit in monitor well MW-2. TPH-Gas was detected above the reporting limit in monitor wells MW-1, MW-2 and MW-3. Additionally, chemical concentrations above laboratory reporting limits detected in all monitoring wells included unspecified hydrocarbons. The unspecified hydrocarbons detected in MW-2 and other Site monitor wells is thought to be degraded diesel. No analytes were detected in the trip blanks or method blanks. A lab control spike and lab control spike duplicate passed the USEPA's criteria for acceptance.

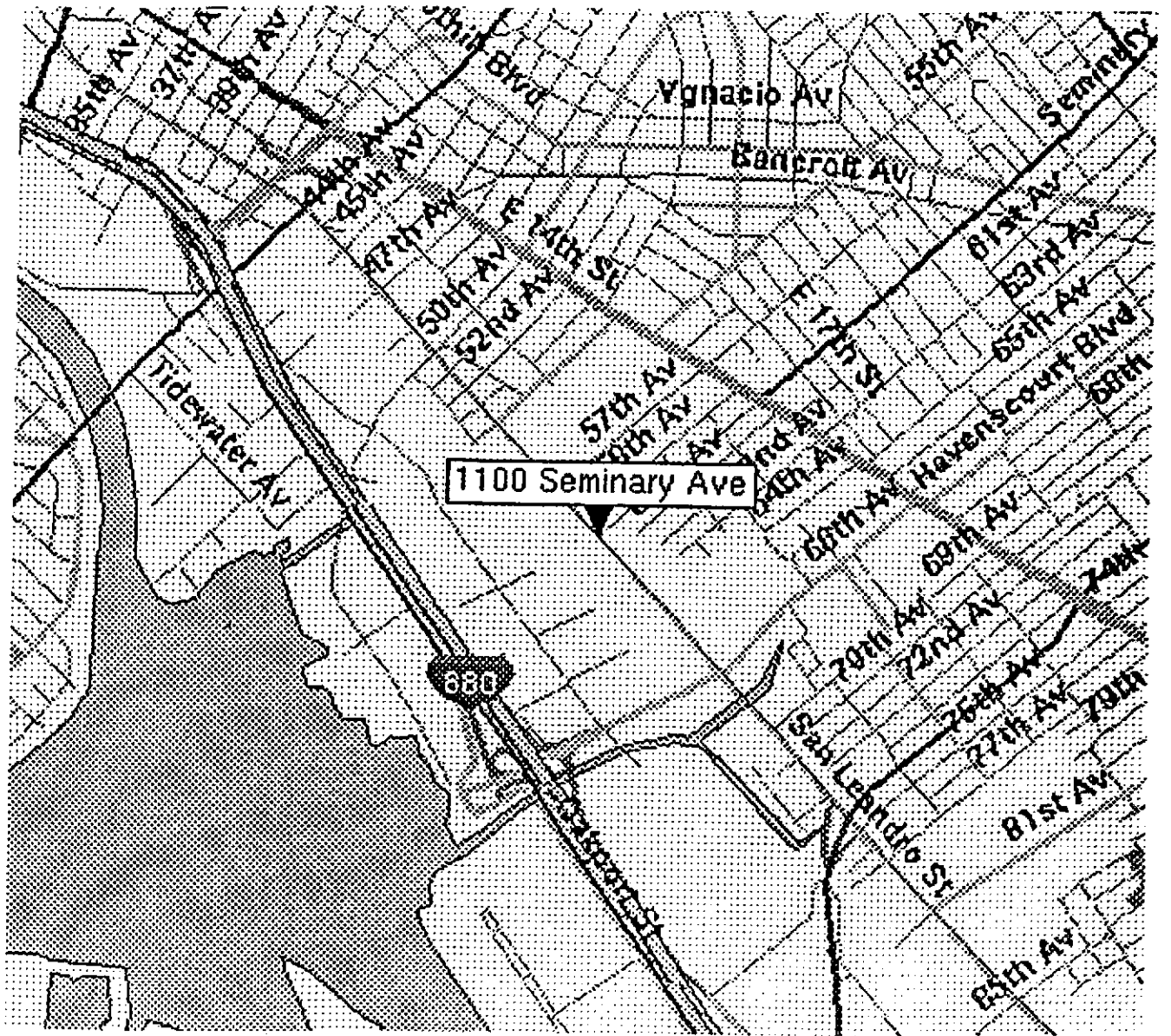
## **SUMMARY OF RESULTS**

- Groundwater flow direction is towards the west at a gradient of 0.012 feet/foot.
- Chemical concentrations in excess of MCLs were limited to benzene in wells MW-2, MW-3 and MW-11, MTBE in MW-11, and ethylbenzene in MW-2.

## **PROJECTED WORK AND RECOMMENDATIONS**

- Quarterly groundwater monitoring is scheduled for November 2001.





1100 Seminary Ave

880



LOCMAP



CAMERON-COLE

AC TRANSIT - OAKLAND, CALIFORNIA

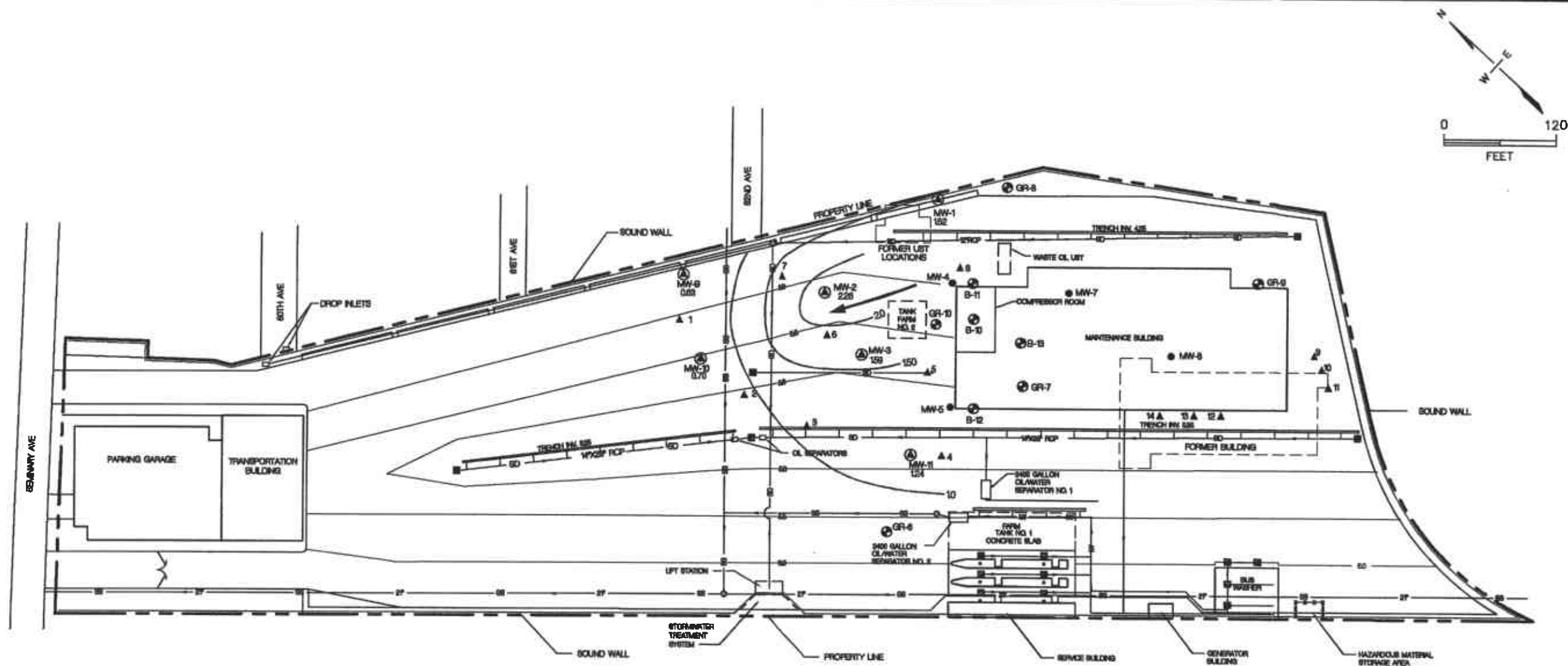
FIGURE 1  
SITE LOCATION MAP  
1100 SEMINARY ROAD

SCALE

NO SCALE

DATE

3/22/00



**LEGEND:**

- |         |                               |     |                                  |
|---------|-------------------------------|-----|----------------------------------|
| — 150 — | GROUNDWATER ELEVATION CONTOUR | 159 | GROUNDWATER ELEVATION (FT. MSL)  |
| ←       | REPORTED GROUNDWATER FLOW     | ⊙   | EXISTING MONITORING WELL         |
| — 60 —  | CONTOUR                       | ●   | ABANDONED MONITORING WELL        |
| — SD —  | STORM DRAIN PIPELINE          | ⊕   | PREVIOUSLY INSTALLED SOIL BORING |
| — SS —  | SANITARY SEWER PIPELINE       | ▲   | NEWLY INSTALLED SOIL BORING      |
| — IW —  | INDUSTRIAL WASTE PIPELINE     | ⊙   | MANHOLE                          |
| — — —   | SURFACE DRAINAGE TRENCH       | ▣   | CATCH BASIN                      |

BY	DATE
DRAWN C.U.	8-29-01
CHECKED	
APPROVED	
APPROVED	
APPROVED	



**CAMERON-COLE**

**FIGURE 2**

**AC TRANSIT - OAKLAND, CALIFORNIA**

**1100 SEMINARY ROAD-POTENTIOMETRIC SURFACE MAP  
JULY 28, 2001**

SCALE: 1" = 120'

DWG. NO: 2011-01

**TABLE 1**  
**GROUNDWATER LEVEL MEASUREMENTS**  
**AC Transit Facility**  
**1100 Seminary Avenue, Oakland, California**

Well	Date	Top of Casing Elevation (ft-msl)*	Product Thickness (feet)	DTW (feet)	Measured Groundwater Elevation (ft-msl)	Groundwater Elevation Corrected for Product Thickness**
MW-1	7-Jan-99	6.25	None	5.13	1.12	
	7-Feb-00		None	3.75	2.5	
	25-May-00		None	3.69	2.56	
	22-Aug-00		None	4.79	1.46	
	20-Nov-00		None	4.92	1.33	
	1-Mar-01		None	2.75	3.50	
	14-May-01		None	3.67	2.58	
	26-Jul-01		None	4.73	1.52	
MW-2	7-Jan-99	5.53	2.27	6.91	-1.38	0.44
	8-Jun-99		2.23	5.83	-0.3	1.48
	9-Jun-99		0	3.9	1.63	1.63
	10-Jun-99		0	3.9	1.63	1.63
	15-Jun-99		0.42	3.92	1.61	1.95
	8-Jul-99		0.2	4.3	1.23	1.39
	7-Feb-00		Sheen	3.8	1.73	
	25-May-00		0.12	3.23	2.3	2.40
	22-Aug-00		0.23	4.45	1.08	1.10
	20-Nov-00		0.23	4.70	0.83	0.85
	1-Mar-01		0.13	2.75	2.78	2.79
	14-May-01		Sheen	3.30	2.23	
	26-Jul-01		None	3.27	2.26	
	MW-3		7-Jan-99	4.76	None	4.11
7-Feb-00		None	3.1		1.66	
25-May-00		None	2.41		2.35	
22-Aug-00		None	3.45		1.31	
20-Nov-00		None	3.42		1.34	
1-Mar-01		None	2.00		2.76	
14-May-01		None	2.64		2.12	
26-Jul-01		None	3.17		1.59	

**TABLE 1**  
**GROUNDWATER LEVEL MEASUREMENTS**  
**AC Transit Facility**  
**1100 Seminary Avenue, Oakland, California**

Well	Date	Top of Casing Elevation (ft-msl)*	Product Thickness (feet)	DTW (feet)	Measured Groundwater Elevation (ft-msl)	Groundwater Elevation Corrected for Product Thickness**
MW-9	7-Feb-00	5.8	None	4.37	1.43	
	25-May-00		None	4.95	0.85	
	22-Aug-00		None	5.18	0.62	
	20-Nov-00		None	4.70	1.10	
	1-Mar-01		None	3.03	2.77	
	14-May-01		None	4.56	1.24	
	26-Jul-01		None	5.17	0.63	
MW-10	7-Feb-00	4.65	None	3.19	1.46	
	25-May-00		None	3.11	1.54	
	22-Aug-00		None	4.35	0.30	
	20-Nov-00		None	4.18	0.47	
	1-Mar-01		None	3.14	1.51	
	14-May-01		None	3.27	1.38	
	26-Jul-01		None	3.95	0.70	
MW-11	7-Feb-00	4.19	None	4.97	-0.78	
	25-May-00		None	7.58	-3.39	
	22-Aug-00		None	3.01	1.18	
	20-Nov-00		None	2.88	1.31	
	1-Mar-01		None	1.91	2.28	
	14-May-01		None	4.49	-0.3	
	26-Jul-01		None	2.95	1.24	

Notes:

\* ft-msl: feet-mean sea level

\*\* used 0.8 specific gravity of product

DTW: Depth to Water

**TABLE 2**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES (ppb)**  
**AC Transit Facility**  
**1100 Seminary Avenue, Oakland, California**

Well	Date	TPH-G	TPH-D	TPH	Benzene	Toluene	Ethyl	Xylenes	MTBE	Nitrate	Sulfate	DO	Fe
							Benzene						
		MCL (ppb)			1.0	150	700	1,750	13				
MW-1	7-Jan-99	<100	470	NA	17.0	2	31.0	18	<50	150	3,400	360	53
	7-Feb-00	390	<60	1,300	13.0	<10	<10	<10	<20	<50	1,200	1,220	11,800
	25-May-00	<50	<50	1,000	12.0	<1.0	<1.0	<1.0	<2.0	140	1,500	1,950	1,380
	22-Aug-00	<50	<50	600	6.3	<1.0	2.3	<1.0	<2.0	75	2,100	6,850	2,350
	20-Nov-00	<50	<50	630	2.8	<1.0	1.1	<1.0	<2.0	<50	4,500	11,210	1,170
	1-Mar-01	<50	<50	900	29.0	1.2	16.0	6	<2.0	<50	2,800	6,020	2,920
	14-May-01	<50	<50	540	4.1	<1.0	3.1	<1.0	<2.0	<50	2,500	13,970	1,870
	26-Jul-01	190	<50	500	<1.0	<1.0	<1.0	<1.0	<2.0	75	3,700	8,480	1,950
MW-2 (Product)	8-Jun-99	11,000	434,000	117,000	1,000,000	<100,000	260,000	<300,000	<5,000,000	NA	NA	NA	NA
	7-Feb-00	51,000	160,000	<5000	19,000	<500	920	<500	<1000	51	<1000	6,660	7,300
	25-May-00	<1200	<50000	65,000	11,000	<500	670	530	<1000	330	<1000	5,670	0
	22-Aug-00	<2500	<2500	150,000	23,000	<500	1,100	1,100	<1000	370	<1000	4,530	3,680
	20-Nov-00	<1200	<25000	430,000	18,000	<500	840	610	<1000	<250	<500	1,700	3,300
	3-Mar-01	<500	<25000	610,000	14,000	<830	<830	<830	<1700	<250	<5000	7,880	3,300
	14-May-01	<1000	280,000	51,000	19,000	240	1,100	1,200	<330	<50	<1000	3,330	>3300
	26-Jul-01	54,000	590,000	<25000	19,000	<500	1,300	1,500	<1000	<50	<1000	9,960	>3300
MW-3	7-Jan-99	199	2,680	NA	450	<10	250	190	<500	170	3,300	880	0
	7-Feb-00	2,000	<150	3,100	26	<2	5	2	<4	<50	47,300	6,480	17,800
	25-May-00	<50	<50	1,000	35	<1.0	6	4	<2.0	<50	21,700	4,640	600
	22-Aug-00	<50	<50	2,400	240	<10	<10	<10	<20	<50	19,300	3,970	20
	20-Nov-00	<50	<50	2,400	<25	<25	<25	<25	<50	<50	26,500	4,120	20
	1-Mar-01	<50	<50	1,200	100	<5.0	8.3	<5.0	<10	<50	27,000	1,510	50
	14-May-01	<50	<50	860	8.4	<1.0	1.2	<1.0	<2.0	<50	21,100	9,800	0
	26-Jul-01	1,200	<50	790	140	<5.0	12	<5.0	<10	<50	18,700	8,650	80
MW-9	7-Feb-00	<50	<50	240	<1	<1	<1	<1	<2	230	183,000	6,940	9,000
	25-May-00	<50	<50	130	<1.0	<1.0	<1.0	<1.0	<2.0	250	172,000	6,020	1,200
	22-Aug-00	<50	<50	120	<1.0	<1.0	<1.0	<1.0	<2.0	280	157,000	7,250	0
	20-Nov-00	<50	<50	130	<1.0	<1.0	<1.0	<1.0	<2.0	340	147,000	9,690	0
	1-Mar-01	<50	<50	150	<1.0	<1.0	<1.0	<1.0	<2.0	230	116,000	4,210	0
	14-May-01	<50	<50	110	<1.0	<1.0	<1.0	<1.0	<2.0	100	140,000	8,290	0
	26-Jul-01	<50	<50	71	<1.0	<1.0	<1.0	<1.0	<2.0	130	143,000	7,560	0

**TABLE 2**  
**ANALYTICAL RESULTS OF GROUNDWATER SAMPLES (ppb)**  
**AC Transit Facility**  
**1100 Seminary Avenue, Oakland, California**

Well	Date	TPH-G	TPH-D	TPH	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	Nitrate	Sulfate	DO	Fe
		MCL (ppb)			1.0	150	700	1,750	13				
MW-10	7-Feb-00	<50	<50	470	<1	<1	<1	<1	<2	53	114,000	1,200	55,000
	25-May-00	<50	<50	220	<1.0	<1.0	<1.0	<1.0	<2.0	480	136,000	1,940	0
	22-Aug-00	<50	<50	140	<1.0	<1.0	<1.0	<1.0	<2.0	69	126,000	4,350	0
	20-Nov-00	<50	<50	300	<1.0	<1.0	<1.0	<1.0	<2.0	<50	76,200	3,790	0
	1-Mar-01	<50	<50	250	<1.0	<1.0	<1.0	<1.0	<2.0	<250	106,000	7,440	0
	14-May-01	<50	<50	74	<1.0	<1.0	<1.0	<1.0	<2.0	<50	135,000	6,790	0
	26-Jul-01	<50	<50	120	<1.0	<1.0	<1.0	<1.0	<2.0	<50	125,000	9,680	1,970
MW-11	7-Feb-00	<50	<50	400	<1	<1	<1	<1	25	800	167,000	7,300	16,200
	25-May-00	<50	<50	200	<1.0	<1.0	<1.0	<1.0	16	480	207,000	6,540	0
	22-Aug-00	<50	<50	170	<1.0	<1.0	<1.0	<1.0	9.3	610	168,000	4,640	20
	20-Nov-00	<50	<50	190	<1.0	<1.0	<1.0	<1.0	7.5	550	143,000	2,380	0
	1-Mar-01	<50	<50	250	<1.0	<1.0	<1.0	<1.0	15.0	170	80,300	5,860	0
	14-May-01	<50	<50	160	<1.0	<1.0	<1.0	<1.0	14.0	230	103,000	6,060	2,910
	26-Jul-01	<50	<50	220	5.9	<1.0	<1.0	2.7	20.0	180	71,300	7,360	>3300

Notes:

ppb: parts per billion

TPH-G: total petroleum hydrocarbons as gasoline

TPH-D: total petroleum hydrocarbons as diesel

TPH: total petroleum hydrocarbons as motor oil or unknown hydrocarbon

MCL: Maximum Contaminant Level

MTBE: Methyl-tert-butylether

DO: Dissolved Oxygen

Fe: Ferrous Iron

**APPENDIX A**  
**CERTIFIED ANALYTICAL REPORTS**  
**CHAIN-OF-CUSTODY DOCUMENTS**

**SEVERN  
TRENT  
SERVICES**

**STL Sacramento**  
880 Riverside Parkway  
West Sacramento, CA 95605-1500

Tel: 916 373 5600  
Fax: 916 371 8420  
[www.stl-inc.com](http://www.stl-inc.com)

August 27, 2001

STL SACRAMENTO PROJECT NUMBER: G1G260356

Brad Wright  
Safety Kleen Consulting  
2233 Santa Clara Ave  
Suite 7  
Alameda, CA 94501

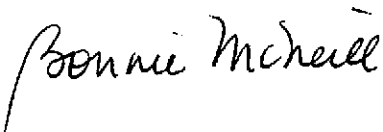
Dear Mr. Wright,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on July 26, 2001. These samples are associated with your AC Transit Seminary project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4414.

Sincerely,



Bonnie J. McNeill  
Project Manager



## TABLE OF CONTENTS

### STL SACRAMENTO PROJECT NUMBER G1G260356

Case Narrative

STL Sacramento Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 8015M, TPH Gas

Samples: 1, 2, 3, 4, 5, 6

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

WATER, 8260B, BTEX + MTBE

Samples: 1, 2, 3, 4, 5, 6, 7

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

WATER, 8015 MOD, Diesel

Samples: 1, 2, 3, 4, 5, 6

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

General Chemistry - Various Methods

Samples: 1, 2, 3, 4, 5, 6

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G1G260356

#### General Comments

Samples were received at 3 degrees Centigrade. The time for sample MW-1 was listed on the chain of custody as 10:45, while on the bottle listed as 11:00.

#### WATER, 8015M, TPH Gas

Sample(s): 1, 2, 3, 4, 5, 6

There was insufficient sample volume to prepare an MS/SD pair with this batch. A second LCS was prepared instead.

#### WATER, 8260B, BTEX + MTBE

Sample(s): 1, 2, 3, 4, 5, 6, 7

The LCS for this batch demonstrated a slightly high recovery for benzene (1%). The data is not significantly impacted by this slightly high bias.

The method blank for this batch demonstrated a high surrogate recovery. The blank is not detected and thus there is no affect on reported data.

#### WATER, 8015 MOD, Diesel

Sample(s): 5

The sample G1G260356-05 required a 500X dilution to bring the analyte response within the calibration range. Subsequently, the surrogate spikes were diluted out and recoveries could not be evaluated.

There were no other anomalies associated with this project.

*STL Sacramento*  
**Quality Control Definitions**

QC Parameter	Definition
QC Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Duplicate Control Sample (DCS)	Consist of a pair of LCSs analyzed within the same QC batch to monitor precision and accuracy independent of sample matrix effects. This QC is performed only if required by client or when insufficient sample is available to perform MS/MSD.
Duplicate Sample (DU)	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Laboratory Control Sample (LCS)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. An LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MSs/MSDs are carried through the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank (MB)	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate Spike	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.

Source: STL Sacramento Laboratory Quality Manual

**STL Sacramento Certifications:**

Alaska (UST-055), Arizona (#AZ00616), Arkansas, California (NELAP # 01119CA) (ELAP #I-2439), Connecticut (#PH-0691), Florida (E87570), Hawaii, Louisiana (AI # 30612), New Jersey (Lab ID 44005), Nevada (#CA 044), New York (LAB ID 11666 serial # 107407), Oregon (LAB ID CA 044), South Carolina (LAB ID 87014, Cert. # 870140), Utah (E-168), Virginia (#00178), Washington (# C087), West Virginia (# 9930C), Wisconsin (Lab 998204680), USNAVY, USACE, USDA Foreign Plant (Permit # 37-82605), USDA Foreign Soil (Permit # S-46613)..

## Sample Summary

### G1G260356

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
EG143	1	MW-1	7/26/01 10:45 AM	7/26/01 06:45 PM
EG144	2	MW-9	7/26/01 11:45 AM	7/26/01 06:45 PM
EG145	3	MW-10	7/26/01 12:30 PM	7/26/01 06:45 PM
EG146	4	MW-3	7/26/01 01:20 PM	7/26/01 06:45 PM
EG147	5	MW-2	7/26/01 02:15 PM	7/26/01 06:45 PM
EG148	6	MW-11	7/26/01 02:45 PM	7/26/01 06:45 PM
EG149	7	TRIP BLANK-01	7/26/01 08:00 AM	7/26/01 06:45 PM

#### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weigh

**Chain of Custody Record**



QUA-4124 0797

Client: **Cameron-Cole, LLC**  
 Address: **101 W. Atlantic Bldg 90**  
 City: **Alameda** State: **CA** Zip Code: **94501**  
 Project Name: **AC Transit Seminary**

Project Manager: **Brad Wright**  
 Telephone Number (Area Code)/Fax Number: **(510) 337-8660**  
 Date: **7-26-01**  
 Chain of Custody Number: \_\_\_\_\_  
 Lab Number: \_\_\_\_\_  
 Page **1** of **1**

Site Contact: \_\_\_\_\_ Lab Contact: **Bonnie McNeil**  
 Carrier/Waybill Number: \_\_\_\_\_

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives							Nitrate/Sulfate B200/BTEX-MIBE BRO 8015 DRO 8015	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
			Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH			
* MW-1	7-26-01	1045	X												good     07-26-01
MW-9		1145													
MW-10		1230													
MW-3		1320													
MW-2		1415													
MW-11		1445													
Top Blank - 01		0800													
* Labeled as 1100 07-26-01															

Possible Hazard Identification:  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal:  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required:  
 24 Hours  48 Hours  7 Days  14 Days  21 Days  Other \_\_\_\_\_

QC Requirements (Specify): **Stand acc**

1. Relinquished By: <b>Eric B. Gorbh</b>	Date: <b>7-26-01</b>	Time: <b>1630</b>	1. Received By: <b>Brit Brackett</b>	Date: <b>7-26-01</b>	Time: <b>1630</b>
2. Relinquished By: <b>Brit Brackett</b>	Date: <b>7-26-01</b>	Time: <b>1845</b>	2. Received By: <b>Cliff Hyslop</b>	Date: <b>7-26-01</b>	Time: <b>1845</b>
3. Relinquished By: _____	Date: _____	Time: _____	3. Received By: _____	Date: _____	Time: _____

Comments: \_\_\_\_\_

WATER, 8015M, TPH GAS

SAFETY KLEEN CONSULTING

Client Sample ID: MW-1

GC Volatiles

Lot-Sample #....: G1G260356-001    Work Order #....: EG1431AE    Matrix.....: WATER  
Date Sampled....: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/02/01    Analysis Date...: 08/02/01  
Prep Batch #....: 1218442  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	190	50	ug/L
Unknown Hydrocarbon	ND	50	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
4-Bromofluorobenzene	101	(70 - 130)

**NOTE(S) :**

The gasoline pattern appears degraded.

SAFETY KLEEN CONSULTING

Client Sample ID: MW-9

GC Volatiles

Lot-Sample #...: G1G260356-002    Work Order #...: EG1441AE    Matrix.....: WATER  
Date Sampled...: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/02/01    Analysis Date...: 08/02/01  
Prep Batch #...: 1218442  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	50	ug/L
Unknown Hydrocarbon	ND	50	ug/L
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	94	(70 - 130)	



SAFETY KLEEN CONSULTING

Client Sample ID: MW-10

GC Volatiles

Lot-Sample #...: G1G260356-003    Work Order #...: EG1451AE    Matrix.....: WATER  
Date Sampled...: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/02/01    Analysis Date...: 08/03/01  
Prep Batch #...: I218442  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	50	ug/L
Unknown Hydrocarbon	ND	50	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene	92	(70 - 130)

SAFETY KLEEN CONSULTING

Client Sample ID: MW-3

GC Volatiles

Lot-Sample #....: G1G260356-004    Work Order #....: EG1461AE    Matrix.....: WATER  
Date Sampled....: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/02/01    Analysis Date...: 08/03/01  
Prep Batch #....: 1218442  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	1200	50	ug/L
Unknown Hydrocarbon	ND	50	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene	106	(70 - 130)

NOTE(S) :

The gasoline pattern appears degraded.

SAFETY KLEEN CONSULTING

Client Sample ID: MW-2

GC Volatiles

Lot-Sample #....: G1G260356-005    Work Order #....: EG1471AE    Matrix.....: WATER  
Date Sampled....: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/02/01    Analysis Date...: 08/03/01  
Prep Batch #....: 2218442  
Dilution Factor: 50    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>UNITS</u>
TPH (as Gasoline)	54000	2500	ug/L
Unknown Hydrocarbon	ND	2500	ug/L
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
4-Bromofluorobenzene	<u>RECOVERY</u>	<u>LIMITS</u>	
	0.0 SRD	(70 - 130)	

**NOTE(S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

SAFETY KLEEN CONSULTING

Client Sample ID: MW-11

GC Volatiles

Lot-Sample #....: G1G260356-006    Work Order #....: EG1481AE    Matrix.....: WATER  
Date Sampled....: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/02/01    Analysis Date...: 08/03/01  
Prep Batch #....: 1218442  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	50	ug/L
Unknown Hydrocarbon	ND	50	ug/L
		<u>PERCENT</u>	<u>RECOVERY</u>
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
4-Bromofluorobenzene	87	(70 - 130)	

# QC DATA ASSOCIATION SUMMARY

G1G260356

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	DHS CA LUFT		1218442	
002	WATER	DHS CA LUFT		1218442	
003	WATER	DHS CA LUFT		1218442	
004	WATER	DHS CA LUFT		1218442	
005	WATER	DHS CA LUFT		1218442	
006	WATER	DHS CA LUFT		1218442	

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: G1G260356  
MB Lot-Sample #: G1H060000-442

Work Order #....: EHJLPIAA

Matrix.....: WATER

Analysis Date...: 08/02/01  
Dilution Factor: 1

Prep Date.....: 08/02/01  
Prep Batch #....: 1218442

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
TPH (as Gasoline)	ND	50	ug/L	DHS CA LUFT
Unknown Hydrocarbon	ND	50	ug/L	DHS CA LUFT

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
4-Bromofluorobenzene	96	(70 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: G1G260356      Work Order #...: EHJLP1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: G1H060000-442      EHJLP1AD-LCSD  
 Prep Date.....: 08/02/01      Analysis Date...: 08/02/01  
 Prep Batch #...: 1218442  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
TPH (as Gasoline)	1000	958	ug/L	96		DHS CA LUFT
	1000	966	ug/L	97	0.85	DHS CA LUFT
<u>SURROGATE</u>				<u>PERCENT</u> <u>RECOVERY</u>		<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene				106		(70 - 130)
				105		(70 - 130)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: G1G260356      Work Order #....: EHJLP1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: G1H060000-442      EHJLP1AD-LCSD  
 Prep Date.....: 08/02/01      Analysis Date...: 08/02/01  
 Prep Batch #....: 1218442  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
TPH (as Gasoline)	96	(70 - 130)			DHS CA LUFT
	97	(70 - 130)	0.85	(0-35)	DHS CA LUFT

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	106	(70 - 130)
	105	(70 - 130)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters



WATER, 8260B, BTEX + MTBE

SAFETY KLEEN CONSULTING

Client Sample ID: MW-1

GC/MS Volatiles

Lot-Sample #....: G1G260356-001    Work Order #....: EG1431AF    Matrix.....: WATER  
Date Sampled....: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 07/31/01    Analysis Date...: 07/31/01  
Prep Batch #....: 1219294  
Dilution Factor: 1    Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L
Xylenes (total)	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	91	(76 - 112)
1,2-Dichloroethane-d4	103	(76 - 118)
Toluene-d8	106	(79 - 115)

SAFETY KLEEN CONSULTING

Client Sample ID: MW-9

GC/MS Volatiles

Lot-Sample #....: G1G260356-002    Work Order #....: EG1441AF    Matrix.....: WATER  
 Date Sampled....: 07/26/01    Date Received...: 07/26/01  
 Prep Date.....: 07/31/01    Analysis Date...: 07/31/01  
 Prep Batch #....: 1219294  
 Dilution Factor: 1    Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L
Xylenes (total)	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	88	(76 - 112)
1,2-Dichloroethane-d4	93	(76 - 118)
Toluene-d8	101	(79 - 115)

SAFETY KLEEN CONSULTING

Client Sample ID: MW-10

GC/MS Volatiles

Lot-Sample #....: G1G260356-003    Work Order #....: EG1451AF    Matrix.....: WATER  
 Date Sampled....: 07/26/01    Date Received...: 07/26/01  
 Prep Date.....: 07/31/01    Analysis Date...: 07/31/01  
 Prep Batch #....: 1219294  
 Dilution Factor: 1    Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L
Xylenes (total)	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	86	(76 - 112)
1,2-Dichloroethane-d4	100	(76 - 118)
Toluene-d8	102	(79 - 115)

SAFETY KLEEN CONSULTING

Client Sample ID: MW-3

GC/MS Volatiles

Lot-Sample #....: G1G260356-004    Work Order #....: EG1462AF    Matrix.....: WATER  
Date Sampled....: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/07/01    Analysis Date...: 08/07/01  
Prep Batch #....: 1226291  
Dilution Factor: 5    Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	140 Q	5.0	ug/L
Toluene	ND	5.0	ug/L
Ethylbenzene	12	5.0	ug/L
Methyl tert-butyl ether (MTBE)	ND	10	ug/L
Xylenes (total)	ND	5.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	97	(76 - 112)
1,2-Dichloroethane-d4	93	(76 - 118)
Toluene-d8	100	(79 - 115)

NOTE(S):

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

**SAFETY KLEEN CONSULTING**

Client Sample ID: MW-2

**GC/MS Volatiles**

Lot-Sample #....: G1G260356-005    Work Order #....: EG1473AF    Matrix.....: WATER  
 Date Sampled....: 07/26/01    Date Received...: 07/26/01  
 Prep Date.....: 08/08/01    Analysis Date...: 08/08/01  
 Prep Batch #....: 1221311  
 Dilution Factor: 500    Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	19000 Q	500	ug/L
Toluene	ND	500	ug/L
Ethylbenzene	1300	500	ug/L
Methyl tert-butyl ether (MTBE)	ND	1000	ug/L
Xylenes (total)	1500	500	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	94	(76 - 112)
1,2-Dichloroethane-d4	99	(76 - 118)
Toluene-d8	99	(79 - 115)

**NOTE(S):**

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

SAFETY KLEEN CONSULTING

Client Sample ID: MW-11

GC/MS Volatiles

Lot-Sample #....: G1G260356-006    Work Order #....: EG1481AF    Matrix.....: WATER  
Date Sampled....: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 07/31/01    Analysis Date...: 07/31/01  
Prep Batch #....: 1219294  
Dilution Factor: 1    Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	5.9	1.0	ug/L
Toluene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methyl tert-butyl ether (MTBE)	20	2.0	ug/L
Xylenes (total)	2.7	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	93	(76 - 112)
1,2-Dichloroethane-d4	95	(76 - 118)
Toluene-d8	105	(79 - 115)

SAFETY KLEEN CONSULTING

Client Sample ID: TRIP BLANK-01

GC/MS Volatiles

Lot-Sample #....: G1G260356-007    Work Order #....: EG1492AA    Matrix.....: WATER  
 Date Sampled....: 07/26/01    Date Received...: 07/26/01  
 Prep Date.....: 08/07/01    Analysis Date...: 08/07/01  
 Prep Batch #....: 1226291  
 Dilution Factor: 1    Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L
Xylenes (total)	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	96	(76 - 112)
1,2-Dichloroethane-d4	99	(76 - 118)
Toluene-d8	97	(79 - 115)



# QC DATA ASSOCIATION SUMMARY

G1G260356

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 8260B		1219294	
002	WATER	SW846 8260B		1219294	
003	WATER	SW846 8260B		1219294	
004	WATER	SW846 8260B		1226291	
005	WATER	SW846 8260B		1221311	
006	WATER	SW846 8260B		1219294	
007	WATER	SW846 8260B		1226291	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G1G260356  
 MB Lot-Sample #: G1H070000-294

Work Order #...: EHKJH1AC

Matrix.....: WATER

Analysis Date...: 07/31/01  
 Dilution Factor: 1

Prep Date.....: 07/31/01  
 Prep Batch #...: 1219294

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Benzene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
4-Bromofluorobenzene	89	(76 - 112)
1,2-Dichloroethane-d4	135 *	(76 - 118)
Toluene-d8	102	(79 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

\* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G1G260356      Work Order #...: EHX851AA      Matrix.....: WATER  
 MB Lot-Sample #: G1H140000-291  
 Analysis Date...: 08/07/01      Prep Date.....: 08/07/01  
 Dilution Factor: 1      Prep Batch #...: 1226291

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Benzene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
4-Bromofluorobenzene	104	(76 - 112)
1,2-Dichloroethane-d4	103	(76 - 118)
Toluene-d8	108	(79 - 115)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: G1G260356  
 MB Lot-Sample #: G1H090000-311

Work Order #...: EHPQK1AA

Matrix.....: WATER

Analysis Date...: 08/08/01  
 Dilution Factor: 1

Prep Date.....: 08/08/01  
 Prep Batch #...: 1221311

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
4-Bromofluorobenzene	86	(76 - 112)
1,2-Dichloroethane-d4	87	(76 - 118)
Toluene-d8	94	(79 - 115)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G1G260356      Work Order #...: EHKJH1AD-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: G1H070000-294      EHKJH1AE-LCSD  
 Prep Date.....: 07/31/01      Analysis Date...: 07/31/01  
 Prep Batch #...: 1219294  
 Dilution Factor: 1

PARAMETER	SPIKE	MEASURED		PERCENT	RPD	METHOD
	AMOUNT	AMOUNT	UNITS	RECOVERY		
Benzene	10.0	12.1 a	ug/L	121		SW846 8260B
	10.0	9.54 p	ug/L	95	24	SW846 8260B
Toluene	10.0	10.7	ug/L	107		SW846 8260B
	10.0	11.0	ug/L	110	2.5	SW846 8260B
Chlorobenzene	10.0	10.9	ug/L	109		SW846 8260B
	10.0	11.1	ug/L	111	2.3	SW846 8260B
1,1-Dichloroethene	10.0	9.90	ug/L	99		SW846 8260B
	10.0	10.5	ug/L	105	5.7	SW846 8260B
Trichloroethene	10.0	10.2	ug/L	102		SW846 8260B
	10.0	10.2	ug/L	102	0.83	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
4-Bromofluorobenzene	99	(76 - 112)
	92	(76 - 112)
1,2-Dichloroethane-d4	110	(76 - 118)
	84	(76 - 118)
Toluene-d8	105	(79 - 115)
	100	(79 - 115)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: G1G260356      Work Order #...: EHX851AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: G1H140000-291      EHX851AD-LCSD  
 Prep Date.....: 08/07/01      Analysis Date...: 08/07/01  
 Prep Batch #...: 1226291  
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	10.0	10.4	ug/L	104		SW846 8260B
	10.0	9.99	ug/L	100	3.6	SW846 8260B
Toluene	10.0	10.2	ug/L	102		SW846 8260B
	10.0	9.70	ug/L	97	4.9	SW846 8260B
Chlorobenzene	10.0	9.73	ug/L	97		SW846 8260B
	10.0	9.42	ug/L	94	3.2	SW846 8260B
1,1-Dichloroethene	10.0	9.95	ug/L	100		SW846 8260B
	10.0	9.81	ug/L	98	1.4	SW846 8260B
Trichloroethene	10.0	10.2	ug/L	102		SW846 8260B
	10.0	9.57	ug/L	96	6.5	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	93	(76 - 112)
	86	(76 - 112)
1,2-Dichloroethane-d4	93	(76 - 118)
	83	(76 - 118)
Toluene-d8	96	(79 - 115)
	91	(79 - 115)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: G1G260356      Work Order #....: EHPQK1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: G1H090000-311      EHPQK1AD-LCSD  
 Prep Date.....: 08/08/01      Analysis Date...: 08/08/01  
 Prep Batch #....: 1221311  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10.0	9.66	ug/L	97		SW846 8260B
	10.0	10.1	ug/L	101	4.4	SW846 8260B
Toluene	10.0	9.62	ug/L	96		SW846 8260B
	10.0	10.1	ug/L	101	4.5	SW846 8260B
Chlorobenzene	10.0	9.46	ug/L	95		SW846 8260B
	10.0	9.61	ug/L	96	1.6	SW846 8260B
1,1-Dichloroethane	10.0	9.64	ug/L	96		SW846 8260B
	10.0	9.94	ug/L	99	3.1	SW846 8260B
Trichloroethene	10.0	9.24	ug/L	92		SW846 8260B
	10.0	9.93	ug/L	99	7.2	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene	87	(76 - 112)
	89	(76 - 112)
1,2-Dichloroethane-d4	83	(76 - 118)
	87	(76 - 118)
Toluene-d8	91	(79 - 115)
	94	(79 - 115)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

Client Lot #...: G1G260356      Work Order #...: EHKJH1AD-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: G1H070000-294      EHKJH1AE-LCSD  
 Prep Date.....: 07/31/01      Analysis Date...: 07/31/01  
 Prep Batch #...: 1219294  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	121 a	(85 - 120)			SW846 8260B
	95 p	(85 - 120)	24	(0-14)	SW846 8260B
Toluene	107	(82 - 121)			SW846 8260B
	110	(82 - 121)	2.5	(0-30)	SW846 8260B
Chlorobenzene	109	(86 - 117)			SW846 8260B
	111	(86 - 117)	2.3	(0-15)	SW846 8260B
1,1-Dichloroethene	99	(79 - 115)			SW846 8260B
	105	(79 - 115)	5.7	(0-26)	SW846 8260B
Trichloroethene	102	(78 - 118)			SW846 8260B
	102	(78 - 118)	0.83	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	99	(76 - 112)
	92	(76 - 112)
1,2-Dichloroethane-d4	110	(76 - 118)
	84	(76 - 118)
Toluene-d8	105	(79 - 115)
	100	(79 - 115)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: G1G260356      Work Order #....: EHX851AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: G1H140000-291      EHX851AD-LCSD  
 Prep Date.....: 08/07/01      Analysis Date...: 08/07/01  
 Prep Batch #....: 1226291  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	104	(85 - 120)			SW846 8260B
	100	(85 - 120)	3.6	(0-14)	SW846 8260B
Toluene	102	(82 - 121)			SW846 8260B
	97	(82 - 121)	4.9	(0-30)	SW846 8260B
Chlorobenzene	97	(86 - 117)			SW846 8260B
	94	(86 - 117)	3.2	(0-15)	SW846 8260B
1,1-Dichloroethene	100	(79 - 115)			SW846 8260B
	98	(79 - 115)	1.4	(0-26)	SW846 8260B
Trichloroethene	102	(78 - 118)			SW846 8260B
	96	(78 - 118)	6.5	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	93	(76 - 112)
	86	(76 - 112)
1,2-Dichloroethane-d4	93	(76 - 118)
	83	(76 - 118)
Toluene-d8	96	(79 - 115)
	91	(79 - 115)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: G1G260356      Work Order #...: EHPQK1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: G1H090000-311      EHPQK1AD-LCSD  
 Prep Date.....: 08/08/01      Analysis Date...: 08/08/01  
 Prep Batch #...: 1221311  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	97	(85 - 120)			SW846 8260B
	101	(85 - 120)	4.4	(0-14)	SW846 8260B
Toluene	96	(82 - 121)			SW846 8260B
	101	(82 - 121)	4.5	(0-30)	SW846 8260B
Chlorobenzene	95	(86 - 117)			SW846 8260B
	96	(86 - 117)	1.6	(0-15)	SW846 8260B
1,1-Dichloroethene	96	(79 - 115)			SW846 8260B
	99	(79 - 115)	3.1	(0-26)	SW846 8260B
Trichloroethene	92	(78 - 118)			SW846 8260B
	99	(78 - 118)	7.2	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	87	(76 - 112)
	89	(76 - 112)
1,2-Dichloroethane-d4	83	(76 - 118)
	87	(76 - 118)
Toluene-d8	91	(79 - 115)
	94	(79 - 115)

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

WATER, 8015 MOD, Diesel

SAFETY KLEEN CONSULTING

Client Sample ID: MW-1

GC Semivolatiles

Lot-Sample #....: G1G260356-001    Work Order #....: EG1431AD    Matrix.....: WATER  
Date Sampled...: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/01/01    Analysis Date...: 08/06/01  
Prep Batch #....: 1213353  
Dilution Factor: 1    Method.....: SW846 8015 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	ND	50	ug/L
Unknown Hydrocarbon	500	50	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	114	(57 - 147)

NOTE(S):

The unknown from n-C8 to n-C40 is quantitated based on a diesel reference from n-C10 to n-C24.

SAFETY KLEEN CONSULTING

Client Sample ID: MW-9

GC Semivolatiles

Lot-Sample #...: G1G260356-002    Work Order #...: EG1441AD    Matrix.....: WATER  
Date Sampled...: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/01/01    Analysis Date...: 08/06/01  
Prep Batch #...: 1213353  
Dilution Factor: 1    Method.....: SW846 8015 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	ND	50	ug/L
Unknown Hydrocarbon	71	50	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	94	(57 - 147)

NOTE(S):

The unknown from n-C14 to n-C38 is quantitated based on a diesel reference from n-C10 to n-C24.

**SAFETY KLEEN CONSULTING**

**Client Sample ID: MW-10**

**GC Semivolatiles**

Lot-Sample #....: G1G260356-003    Work Order #....: EG1451AD    Matrix.....: WATER  
Date Sampled....: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/01/01    Analysis Date...: 08/06/01  
Prep Batch #....: 1213353  
Dilution Factor: 1    Method.....: SW846 8015 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	ND	50	ug/L
Unknown Hydrocarbon	120	50	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
o-Terphenyl	98	(57 - 147)

**NOTE(S):**

The unknown from n-C12 to n-C40 is quantitated based on a diesel reference from n-C10 to n-C24.

SAFETY KLEEN CONSULTING

Client Sample ID: MW-3

GC Semivolatiles

Lot-Sample #....: G1G260356-004    Work Order #....: EG1461AD    Matrix.....: WATER  
Date Sampled....: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/01/01    Analysis Date...: 08/06/01  
Prep Batch #....: 1213353  
Dilution Factor: 1    Method.....: SW846 8015 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	ND	50	ug/L
Unknown Hydrocarbon	790	50	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	96	(57 - 147)

**NOTE(S):**

The unknown from n-C8 to n-C40 is quantitated based on a diesel reference from n-C10 to n-C24.

SAFETY KLEEN CONSULTING

Client Sample ID: MW-2

GC Semivolatiles

Lot-Sample #....: GIG260356-005    Work Order #....: EG1471AD    Matrix.....: WATER  
Date Sampled....: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/01/01    Analysis Date...: 08/12/01  
Prep Batch #....: 1213353  
Dilution Factor: 500    Method.....: SW846 8015 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	590000 Q	25000	ug/L
Unknown Hydrocarbon	ND	25000	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	0.0 SRD	(57 - 147)

NOTE(S):

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.  
The diesel pattern appears degraded.



**SAFETY KLEEN CONSULTING**

Client Sample ID: MW-11

**GC Semivolatiles**

Lot-Sample #....: G1G260356-006    Work Order #....: EG1481AD    Matrix.....: WATER  
Date Sampled....: 07/26/01    Date Received...: 07/26/01  
Prep Date.....: 08/01/01    Analysis Date...: 08/12/01  
Prep Batch #....: 1213353  
Dilution Factor: 1    Method.....: SW846 8015 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	ND	50	ug/L
Unknown Hydrocarbon	220	50	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	107	(57 - 147)

**NOTE(S) :**

The unknown from n-C12 to n-C40 is quantitated based on a diesel reference from n-C10 to n-C24.

# QC DATA ASSOCIATION SUMMARY

G1G260356

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 8015 MOD		1213353	1213197
002	WATER	SW846 8015 MOD		1213353	1213197
003	WATER	SW846 8015 MOD		1213353	1213197
004	WATER	SW846 8015 MOD		1213353	1213197
005	WATER	SW846 8015 MOD		1213353	1213197
006	WATER	SW846 8015 MOD		1213353	1213197

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: G1G260356  
MB Lot-Sample #: G1H010000-353

Work Order #...: EHAC31AA

Matrix.....: WATER

Analysis Date...: 08/06/01  
Dilution Factor: 1

Prep Date.....: 08/01/01  
Prep Batch #...: 1213353

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
TPH (as Diesel)	ND	50	ug/L	SW846 8015 MOD
Unknown Hydrocarbon	ND	50	ug/L	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
o-Terphenyl	88	(57 - 147)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: G1G260356      Work Order #...: EHAC31AC      Matrix.....: WATER  
 LCS Lot-Sample#: G1H010000-353  
 Prep Date.....: 08/01/01      Analysis Date...: 08/06/01  
 Prep Batch #...: 1213353  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
TPH (as Diesel)	450	383	ug/L	85	SW846 8015 MO

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	99	(57 - 147)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: G1G260356      Work Order #....: EHAC31AC      Matrix.....: WATER  
 LCS Lot-Sample#: GLH010000-353  
 Prep Date.....: 08/01/01      Analysis Date...: 08/06/01  
 Prep Batch #....: 1213353  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>
TPH (as Diesel)	85	(39 - 125)	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	99	(57 - 147)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: G1G260356      Work Order #...: EG1221AG-MS      Matrix.....: WATER  
 MS Lot-Sample #: G1G260335-001      EG1221AH-MSD  
 Date Sampled...: 07/25/01      Date Received...: 07/25/01  
 Prep Date.....: 08/01/01      Analysis Date...: 08/06/01  
 Prep Batch #...: 1213353  
 Dilution Factor: 1

PARAMETER	SAMPLE		SPIKE		MEASRD	PERCENT		
	AMOUNT	AMT	AMOUNT	UNITS		RECOVERY	RPD	METHOD
TPH (as Diesel)	ND	285	244	ug/L		86		SW846 8015 MOD
	ND	285	224	ug/L		79	8.6	SW846 8015 MOD

SURROGATE	PERCENT		RECOVERY
	RECOVERY	RECOVERY	LIMITS
o-Terphenyl	97		(57 - 147)
	90		(57 - 147)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: GLG260356      Work Order #....: EG1221AG-MS      Matrix.....: WATER  
 MS Lot-Sample #: GLG260335-001      EG1221AH-MSD  
 Date Sampled....: 07/25/01      Date Received...: 07/25/01  
 Prep Date.....: 08/01/01      Analysis Date...: 08/06/01  
 Prep Batch #....: 1213353  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
TPH (as Diesel)	86 79	(39 - 125) (39 - 125)	8.6	(0-44)	SW846 8015 MOD SW846 8015 MOD
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>	
o-Terphenyl		97 90		(57 - 147) (57 - 147)	

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

# *General Chemistry - Various Methods*



SAFETY KLEEN CONSULTING

Client Sample ID: MW-1

General Chemistry

Lot-Sample #...: G1G260356-001  
Date Sampled...: 07/26/01

Work Order #...: EG143  
Date Received...: 07/26/01

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrate as N	0.075	0.050	mg/L	MCAWW 300.0A	07/27/01	1211551
		Dilution Factor: 1				
Sulfate	3.7	1.0	mg/L	MCAWW 300.0A	07/27/01	1211556
		Dilution Factor: 1				

SAFETY KLEEN CONSULTING

Client Sample ID: MW-9

General Chemistry

Lot-Sample #...: G1G260356-002  
Date Sampled...: 07/26/01

Work Order #...: EG144  
Date Received...: 07/26/01

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrate as N	0.13	0.050	mg/L	MCAWW 300.0A	07/27/01	1211551
		Dilution Factor: 1				
Sulfate	143 Q	5.0	mg/L	MCAWW 300.0A	07/27/01	1211556
		Dilution Factor: 5				

NOTE(S) :

RL Reporting Limit

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

SAFETY KLEEN CONSULTING

Client Sample ID: MW-10

General Chemistry

Lot-Sample #...: G.LG260356-003  
Date Sampled...: 07/26/01

Work Order #...: EG145  
Date Received...: 07/26/01

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrate as N	ND	0.050	mg/L	MCAWW 300.0A	07/27/01	1211551
		Dilution Factor: 1				
Sulfate	125 Q	5.0	mg/L	MCAWW 300.0A	07/27/01	1211556
		Dilution Factor: 5				

NOTE(S) :

RL Reporting Limit

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

SAFETY KLEEN CONSULTING

Client Sample ID: MW-3

General Chemistry

Lot-Sample #...: G1G260356-004  
Date Sampled...: 07/26/01

Work Order #...: EG146  
Date Received...: 07/26/01

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrate as N	ND	0.050	mg/L	MCAWW 300.0A	07/27/01	1211551
		Dilution Factor: 1				
Sulfate	18.7	1.0	mg/L	MCAWW 300.0A	07/27/01	1211556
		Dilution Factor: 1				

SAFETY KLEEN CONSULTING

Client Sample ID: MW-2

General Chemistry

Lot-Sample #...: G1G260356-005  
Date Sampled...: 07/26/01

Work Order #...: EG147  
Date Received...: 07/26/01

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrate as N	ND	0.050	mg/L	MCAWW 300.0A	07/27/01	1211551
		Dilution Factor: 1				
Sulfate	ND	1.0	mg/L	MCAWW 300.0A	07/27/01	1211556
		Dilution Factor: 1				

SAFETY KLEEN CONSULTING

Client Sample ID: MW-11

General Chemistry

Lot-Sample #...: G1G260356-006  
Date Sampled...: 07/26/01

Work Order #...: EG148  
Date Received...: 07/26/01

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrate as N	0.18	0.050	mg/L	MCAWW 300.0A	07/27/01	1211551
		Dilution Factor: 1				
Sulfate	71.3 Q	5.0	mg/L	MCAWW 300.0A	07/27/01	1211556
		Dilution Factor: 5				

NOTE(S) :

RL Reporting Limit

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

# QC DATA ASSOCIATION SUMMARY

G1G260356

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER WATER	MCAWW 300.0A MCAWW 300.0A		1211556 1211551	1212310 1212309
002	WATER WATER	MCAWW 300.0A MCAWW 300.0A		1211556 1211551	1212310 1212309
003	WATER WATER	MCAWW 300.0A MCAWW 300.0A		1211556 1211551	1212310 1212309
004	WATER WATER	MCAWW 300.0A MCAWW 300.0A		1211556 1211551	1212310 1212309
005	WATER WATER	MCAWW 300.0A MCAWW 300.0A		1211556 1211551	1212310 1212309
006	WATER WATER	MCAWW 300.0A MCAWW 300.0A		1211556 1211551	1212310 1212309

METHOD BLANK REPORT

General Chemistry

Client Lot #....: G1G260356

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrate as N	ND	Work Order #: EG6X61AA 0.050	mg/L	MB Lot-Sample #: G1G300000-551 MCAWW 300.0A	07/27/01	1211551
		Dilution Factor: 1				
Sulfate	ND	Work Order #: EG60C1AA 1.0	mg/L	MB Lot-Sample #: G1G300000-556 MCAWW 300.0A	07/27/01	1211556
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.



LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G1G260356

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrate as N	1.00	0.930	mg/L	93	MCAWW 300.0A	07/27/01	1211551
				Dilution Factor: 1			
Sulfate	10.0	9.35	mg/L	93	MCAWW 300.0A	07/27/01	1211556
				Dilution Factor: 1			

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G1G260356

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrate as N	93	Work Order #: EG6X61AC (90 - 110)	LCS Lot-Sample#: G1G300000-551 MCAWW 300.0A	07/27/01	1211551
		Dilution Factor: 1			
Sulfate	93	Work Order #: EG60C1AC (90 - 110)	LCS Lot-Sample#: G1G300000-556 MCAWW 300.0A	07/27/01	1211556
		Dilution Factor: 1			

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G1G260356

Date Sampled...: 07/26/01

Date Received...: 07/26/01

Matrix.....: WATER

PARAMETER	SAMPLE SPIKE MEASURED		UNITS	PERCNT	RECVRY RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
	AMOUNT	AMT						
Nitrate as N								
	ND	2.00	2.04	mg/L	102			
	ND	2.00	2.02	mg/L	101	0.98	MCAWW 300.0A	
	Dilution Factor: 1							
	WO#: EG1461AG-MS/EG1461AH-MSD MS Lot-Sample #: G1G260356-004							
	MCAWW 300.0A 07/27/01 1211551							
	MCAWW 300.0A 07/27/01 1211551							
Sulfate								
	18.7	20.0	39.2	mg/L	102			
	18.7	20.0	39.0	mg/L	102	0.48	MCAWW 300.0A	
	Dilution Factor: 1							
	WO#: EG1461AJ-MS/EG1461AK-MSD MS Lot-Sample #: G1G260356-004							
	MCAWW 300.0A 07/27/01 1211556							
	MCAWW 300.0A 07/27/01 1211556							

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G1G260356

Date Sampled...: 07/26/01

Date Received...: 07/26/01

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD		METHOD	PREPARATION-	PREP
			RPD	LIMITS		ANALYSIS DATE	BATCH #
Nitrate as N	102	(90 - 110)	WO#: EG1461AG-MS/EG1461AH-MSD		MCAWW 300.0A	MS Lot-Sample #: G1G260356-004	1211551
	101	(90 - 110)	0.98	(0-10)			
			Dilution Factor: 1			07/27/01	1211551
Sulfate	102	(90 - 110)	WO#: EG1461AJ-MS/EG1461AK-MSD		MCAWW 300.0A	MS Lot-Sample #: G1G260356-004	1211556
	102	(90 - 110)	0.48	(0-10)			
			Dilution Factor: 1			07/27/01	1211556

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

**APPENDIX B**  
**SAMPLING EVENT DATA**

DEPTH TO WATER

DATE: 7-26-01

PROJECT AC Transit Seminary

EVENT Quarterly

TECHNICIAN EG

NO.	WELL OR LOCATION	DATE	TIME	MEASUREMENT	CODE	COMMENTS
1	MW-1	7-26-01	0930	4.73		
2	MW-2	         V	0934	3.27		
3	MW-3		0938	3.17		
4	MW-9		0945	5.17		
5	MW-10		0951	3.95		
6	MW-11		1000	2.95		
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

CODES: SWL - Static Water Level  
 OIL - Oil Level  
 OWI - Oil/Water Interface  
 MTD - Measured Total Depth

# LES-SSI MONITOR WELL SAMPLING FORM

Well ID: MW-1

Project Name: AC Transit 705 LES-SSI  
 Casing Diameter (in): 2"  
 Total Well Depth (ft): 15.5'  
 Depth to Water (ft), before purging: 4.73

Project Number: 792580  
 Sample Date: 7-26-01  
 Sample ID: MW-1

Development Method:

Bailer:  Teflon  Stainless Steel  PVC  ABS Plastic  
 Pump:  Dedicated Submersible Pump  Bladder Pump  
 Non-Dedicated Submersible Pump

Time	pH	Conduct. (umho/cm)	Temp. (Celsius)	Water Level (to 0.01 ft)	Cum. Vol. (gal)	Pump Rate (GPM)
1031	6.98	1029	29.7	5.01	2	0.70
1036	6.92	716	29.5	5.25	4	
1040	6.91	695	29.2	5.35	6	
				Total =	6	

Water Volume to be Purged (gal) =  $10.77 \times 0.163 \times 1.75 \times 3 = 5.27$   
 (Casing Length in Ft - Depth to Water in Ft) x X x 3  
 Where X = 1 Well Volume in gal/ft, X = 0.165 for 2 in. wells, X = 0.37 for 3 in. wells, X = 0.65 for 4 in. well  
 NOTE: 3 to 5 Well Casing Volumes required prior to sample collection.

At least 3 well casing volumes were removed prior to sampling.

Sample Collection Method:

Bailer:  Teflon  Stainless Steel  PVC  ABS Plastic  
 Pump:  Dedicated Submersible Pump  Bladder Pump  
 Non-Dedicated Submersible Pump

QA/QC Samples if any (Duplicate, Field Blank, Rinse Blank, etc.):

Nitrate / Sulfate  
 8260  
 8015

Fe = 1.95  
 DO = 8.48 mg/L  
 ORP = <-50

Parameter Collected:  
 Sample Appearance

OVA Reading (ppm)  
 Suspended Solids (describe):

Decontamination Performed:

R/W S/M

Comments / Calculations:

Start 1030  
 Stop 1045  
 Sample 1100

Signature: Eric R. Early

Date: 7-26-01

# LES-SSI MONITOR WELL SAMPLING FORM

Well ID: MW-3

Project Name: AC Transit Seminary  
 LES-SSI  
 Casing Diameter (in): 2"  
 Total Well Depth (ft): 16.80'  
 Depth to Water (ft), before purging: 3.17

Project Number: 792588  
 Sample Date: 7-26-01  
 Sample ID: MW-3

Development Method:

Bailer:  Teflon  Stainless Steel  PVC  ABS Plastic  
 Pump:  Dedicated Submersible Pump  Bladder Pump  
 Non-Dedicated Submersible Pump

Time	pH	Conduct. (umho/cm)	Temp. (Celsius)	Water Level (to 0.01 ft)	Cum. Vol. (gal)	Pump Rate (GPM)
1258	7.83	1134	27.9	7.28	2.5	1.75
1300	7.57	679	26.7	6.51	5.0	↓
1302	7.52	785	26.3	7.15	7.0	↓
				Total	7.0	

Water Volume to be Purged (gal) =  $13.63 \times 0.163 = 2.22 \times 3 = 6.66$   
 (Casing Length in Ft - Depth to Water in Ft)  $\times X \times 3$

Where X = 1 Well Volume in gal/ft, X = 0.165 for 2 in. wells, X = 0.37 for 3 in. wells, X = 0.65 for 4 in. well  
 NOTE: 3 to 5 Well Casing Volumes required prior to sample collection.

At least 3 well casing volumes were removed prior to sampling.

Sample Collection Method:

Bailer:  Teflon  Stainless Steel  PVC  ABS Plastic  
 Pump:  Dedicated Submersible Pump  Bladder Pump  
 Non-Dedicated Submersible Pump

QA/QC Samples if any (Duplicate, Field Blank, Rinse Blank, etc.):

Nitrate/Sulfate  
 8260  
 8015 BRO/DRO

Parameter Collected:

Sample Appearance

OVA Reading (ppm)  
 Suspended Solids (describe):

Centrifugal pump  
 to Purge

ORP = -30 mV

Fe = 0.08 mg/L

DO = 8.65 mg/L

Decontamination Performed:

R/W R S/M

Comments / Calculations:

Start : 1255

Stop : 1302

Sample : 1300

Signature: Erik R. Gerby

Date: 7-26-01



# LES-SSI MONITOR WELL SAMPLING FORM

Well ID: MW-2

Project Name: AC-Transit Summary  
 LES-SSI  
 Casing Diameter (in): 2"  
 Total Well Depth (ft): 23.50  
 Depth to Water (ft), before purging: 3.27

Project Number: 792588  
 Sample Date: 7-26-01  
 Sample ID: MW-2

Development Method:

Bailer:  Teflon  Stainless Steel  PVC  ABS Plastic  
 Pump:  Dedicated Submersible Pump  Bladder Pump  
 Non-Dedicated Submersible Pump

Time	pH	Conduct. (umho/cm)	Temp. (Celsius)	Water Level (to 0.01 ft)	Cum. Vol. (gal)	Pump Rate (GPM)
1342	7.61	1884	34.1	5.15	3.5	0.45
1348	7.14	1905	32.5	7.05	7.0	↓
1405	7.15	1875	32.3	10.15	10.0	↓
				Total	10.0	

Water Volume to be Purged (gal) =  $20.23 \times 0.163 = 3.29 \times 3 = 9.9$

(Casing Length in Ft - Depth to Water in Ft) x X x 3

Where X = 1 Well Volume in gal/ft, X = 0.165 for 2 in. wells, X = 0.37 for 3 in. wells, X = 0.65 for 4 in. well

NOTE: 3 to 5 Well Casing Volumes required prior to sample collection.

At least 3 well casing volumes were removed prior to sampling.

Sample Collection Method:

Bailer:  Teflon  Stainless Steel  PVC  ABS Plastic  
 Pump:  Dedicated Submersible Pump  Bladder Pump  
 Non-Dedicated Submersible Pump

QA/QC Samples if any (Duplicate, Field Blank, Rinse Blank, etc.):

8015 GRO/DRO  
Nitrate/Sulfate  
8260

Parameter Collected:

Sample Appearance

OVA Reading (ppm)  
 Suspended Solids (describe):

Centrifugal pump to purge

Fe = >3.30 mg/L

ORP = 4251 mV

DO = 9.96 mg/L

Decontamination Performed:

R/W S/M

Comments / Calculations:

Start: 1340

Stop: 1405

Sample: 1415

Signature: Eric R. Goyk

Date: 7.26.01

# LES-SSI MONITOR WELL SAMPLING FORM

Well ID: MW-9

Project Name: AC Transit Secondary  
 LES-SSI  
 Casing Diameter (in): 2"  
 Total Well Depth (ft): 19.50  
 Depth to Water (ft), before purging: 5.17

Project Number: 792588  
 Sample Date: 7.26.01  
 Sample ID: MW-9

**Development Method:**

Bailer:  Teflon  Stainless Steel  PVC  ABS Plastic  
 Pump:  Dedicated Submersible Pump  Bladder Pump  
 Non-Dedicated Submersible Pump

Time	pH	Conduct. (umho/cm)	Temp. (Celsius)	Water Level (to 0.01 ft)	Cum. Vol. (gal)	Pump Rate (GPM)
1127	7.21	1195	27.0	6.21	2.5	0.9
1129	7.34	1234	26.6	6.86	5.0	↓
1135	7.36	1245	26.6	7.26	7.0	↓
				Total	7.0	

Water Volume to be Purged (gal) =  $14.33 \times 0.163 = 2.33 \times 3 = 7.0$   
 (Casing Length in Ft - Depth to Water in Ft)  $\times X \times 3$

Where X = 1 Well Volume in gal/ft, X = 0.165 for 2 in. wells, X = 0.37 for 3 in. wells, X = 0.65 for 4 in. well  
 NOTE: 3 to 5 Well Casing Volumes required prior to sample collection.

At least 3 well casing volumes were removed prior to sampling.

**Sample Collection Method:**

Bailer:  Teflon  Stainless Steel  PVC  ABS Plastic  
 Pump:  Dedicated Submersible Pump  Bladder Pump  
 Non-Dedicated Submersible Pump

QA/QC Samples if any (Duplicate, Field Blank, Rinse Blank, etc.):

Nitrate / Sulfate  
 8260  
 8015 GRO/DRO

**Parameter Collected:**

**Sample Appearance**

OVA Reading (ppm)  
 Suspended Solids (describe):

Centrifugal Pump  
 to Purge

Fe = 0.0 mg/L

DO = 7.56 mg/L

ORP = 35 MV

**Decontamination Performed:**

R/w S/M

**Comments / Calculations:**

Start: 1125  
 Stop: 1135  
 Sample: 1145

Signature: Eric R. Gogley

Date: 7.26.01

# LES-SSI MONITOR WELL SAMPLING FORM

Well ID: MW-10

Project Name: AC Transit Seminary LES-SSI Project Number: 792588  
 Casing Diameter (in): 2" Sample Date: 7-26-01  
 Total Well Depth (ft): 11.40 Sample ID: MW-10  
 Depth to Water (ft), before purging: 3.95

Development Method:

Bailer:  Teflon  Stainless Steel  PVC  ABS Plastic  
 Pump:  Dedicated Submersible Pump  Bladder Pump  
 Non-Dedicated Submersible Pump

Time	pH	Conduct. (umho/cm)	Temp. (Celsius)	Water Level (to 0.01 ft)	Cum. Vol. (gal)	Pump Rate (GPM)
1216	7.21	1988	31.8	3.98	1.2	1.0
1218	7.15	2.64 x 10 <sup>3</sup>	30.6	7.01	2	↓
1220	7.09	2.63 x 10 <sup>3</sup>	29.7	6.75	4	↓
				Total	4.0	

Water Volume to be Purged (gal) =  $7.45 \times 0.163 = 1.21 \times 3 = 3.64$   
 (Casing Length in Ft - Depth to Water in Ft) x X x 3

Where X = 1 Well Volume in gal/ft, X = 0.165 for 2 in. wells, X = 0.37 for 3 in. wells, X = 0.65 for 4 in. well.  
 NOTE: 3 to 5 Well Casing Volumes required prior to sample collection.

At least 3 well casing volumes were removed prior to sampling.

Sample Collection Method:

Bailer:  Teflon  Stainless Steel  PVC  ABS Plastic  
 Pump:  Dedicated Submersible Pump  Bladder Pump  
 Non-Dedicated Submersible Pump

QA/QC Samples if any (Duplicate, Field Blank, Rinse Blank, etc.):

Nitrate / Sulfate  
8260  
8015 GRO/DRO

Parameter Collected:

Sample Appearance

OVA Reading (ppm)  
 Suspended Solids (describe):

Centrifugal Pump  
to Purge

Fe = 1.97

DO = 9.68

ORP = 27.5

Decontamination Performed:

R/W S/M

Comments / Calculations:

Start: 1215

Stop: 1220

Sample: 1230

Signature: Erik R. Beckley

Date: 7-26-01

LES-SSI MONITOR WELL SAMPLING FORM

Well ID: MW-11

Project Name: AC Transit Seminary LES-SSI

Project Number: 792588

Casing Diameter (in): 2"

Sample Date: 7-26-01

Total Well Depth (ft): 13.5'

Sample ID: MW-11

Depth to Water (ft), before purging: 2.95'

Development Method:

X Bailer: Teflon Stainless Steel PVC ABS Plastic

X Pump: Dedicated Submersible Pump Bladder Pump
X Non-Dedicated Submersible Pump

Table with 7 columns: Time, pH, Conduct. (umho/cm), Temp. (Celsius), Water Level (to 0.01 ft), Cum. Vol. (gal), Pump Rate (GPM). Rows include data for 0958 and 1001, ending with Total Purged = 2.5.

Water Volume to be Purged (gal) = 10.55 x 0.163 x 3 = 1.72 x 3 = 5.15

(Casing Length in Ft - Depth to Water in Ft) x X x 3
Where X = 1 Well Volume in gal/ft, X = 0.165 for 2 in. wells, X = 0.37 for 3 in. wells, X = 0.65 for 4 in. well:

NOTE: 3 to 5 Well Casing Volumes required prior to sample collection.

At least 2 well casing volumes were removed prior to sampling.

Sample Collection Method:

X Bailer: Teflon Stainless Steel PVC ABS Plastic
X Pump: Dedicated Submersible Pump Bladder Pump
X Non-Dedicated Submersible Pump

QA/QC Samples if any (Duplicate, Field Blank, Rinse Blank, etc.):

Nitrate/Sulfate
8260
8015 GRO/DRO

Parameter Collected:

Sample Appearance

OVA Reading (ppm) Centrifugal Pump
Suspended Solids (describe): to purge

Fe = > 3.30 mg/L
ORP = 25 mV
DO = 7.36 mg/L

Decontamination Performed:

R/W S/M

Comments / Calculations:

Start = 0956
Stop = 1005
Sample = 1445

Signature: Erik R. Gorky

Date: 7-26-01

# Custody Record



QUA-4124 0797

Client

Address Bannock-Cole LLC

Project Manager Brad Wright

Date 7-26-01

Chain of Custody Number 41477

City Alameda

Telephone Number (Area Code)/Fax Number (510) 337-8660

Lab Number

State CA Zip Code 94501

Site Contact

Lab Contact Bonnie McNeil

Page 1 of 1

Project Name AK Transit Seminary

Carrier/Waybill Number

Analysis (Attach list if more space is needed)

Contract/Purchase Order/Quote No.

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives							Special Instructions/ Conditions of Receipt							
			Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc2	NaOH								
<u>MW-1</u>	<u>7-26-01</u>	<u>1045</u>	<u>X</u>																	
<u>MW-9</u>		<u>1145</u>																		
<u>MW-10</u>		<u>1230</u>																		
<u>MW-3</u>		<u>1220</u>																		
<u>MW-2</u>		<u>1415</u>																		
<u>MW-11</u>		<u>1415</u>																		
<u>Tap Water - 81</u>		<u>0800</u>	<u>✓</u>																	

Nitrate/Sulfate  
 200/BTEX-MTB  
 500/8015  
 DRD 8015

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Time Around Time Required  
 24 Hours  48 Hours  7 Days  14 Days  21 Days  Other \_\_\_\_\_

QC Requirements (Specify)  
Standard  
 (A fee may be assessed if samples are retained longer than 3 months)

Relinquished By Mark Gorby

Date 7-26-01 Time 1630

1. Received By Brad Bunker

Relinquished By

Date \_\_\_\_\_ Time \_\_\_\_\_

2. Received By

Date 7-26-01 Time 1630

Relinquished By

Date \_\_\_\_\_ Time \_\_\_\_\_

3. Received By

Date \_\_\_\_\_ Time \_\_\_\_\_

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy