Mark Detterman
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

SUBJECT: RO0000321
Yee Property
726 Harrison Street
Oakland, CA 94602

Dear Mr. Detterman:

Attached please find a copy of the Groundwater Sampling Report dated 9/15/2011 for the above referenced site. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,

Peter Yee

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
(925) 820-9391 - Fax (925) 837-4853 - www.aquascienceengineers.com

September 15, 2011

GROUNDWATER SAMPLING DATA REPORT
AUGUST 2011 GROUNDWATER SAMPLING
ASE JOB NO. 3412

at
Yee Property
726 Harrison Street
Oakland, CA 94602

Prepared by:
AQUA SCIENCE ENGINEERS, INC.
55 Oak Court, Suite 220
Danville, CA 94526
(925) 820-9391

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1.0 INTRODUCTION

Site Location (Site), See Figure 1
Yee Property
(Previously Former Chan's Shell Station)
726 Harrison Street
Oakland, CA 94602
(510) 444-6583

Responsible Party
Peter Yee
1000 San Antonio Avenue
Alameda, CA 94501

Environmental Consulting Firm
Aqua Science Engineers, Inc. (ASE)
55 Oak Court, Suite 220
Danville, CA 94526
Contact: Robert Kitay, Senior Geologist
(925) 820-9391

Arcadis US, Inc.
2000 Powell Street, 7th Floor
Emeryville, CA 94608
Contact: Katherine Brandt, Project Geologist
(510) 596-9675

Agency Review
Alameda County Health
Care Services Agency (ACHCSA)
1131 Harbor Bay Pkwy
Suite 250
Alameda, CA 94502
Contact: Mr. Steven Plunkett
(510) 567-6700

The following is a report detailing the August 2011 groundwater sampling at the Yee Property, previously referred to as the former Chan's Shell Station. This sampling was conducted as required by the ACHCSA and RWQCB. ASE has prepared this report on behalf of Peter Yee, the current responsible party, who purchased the property from Kin Chan. This report is intended to supplement the ASE report: "Report of Soil and Groundwater Assessment" dated January 8, 1999. At the request of the ACHCSA, one report is to be submitted for the three properties with comingled plumes: Yee property, the adjacent property former ARCO Station located at 706 Harrison Street, and the operating 76 Station located at 800 Harrison Street. A full report will be written by Arcadis. This report only provides a description of the sampling and data collected at the Yee property.

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On August 23, 2011, ASE measured the depth to groundwater in all six site monitoring wells using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. No free-floating hydrocarbons were observed in any site well. ASE coordinated this groundwater sampling with Arcadis, who is investigating the adjacent properties located at 706 Harrison Street, referred to in this report as the former ARCO station, and the 76 Station located at 800 Harrison Street.

3.0 GROUNDWATER SAMPLE COLLECTION

On August 23, 2011, ASE collected groundwater samples from monitoring wells MW-1 through MW-6. Prior to sampling, each well was purged of three well casing volumes of groundwater using disposable polyethylene bailers. The parameters pH, temperature and conductivity were monitored during the well purging, and samples were not collected until these parameters stabilized. Groundwater samples were collected from each well using disposable polyethylene bailers and were decanted from the bottom of the bailers using low-flow emptying devices into 40-ml volatile organic analysis (VOA) vials, pre-preserved with hydrochloric acid. The samples were capped without headspace, labeled, and placed in coolers with wet ice for transport to BC Laboratories, Inc. of Bakersfield, California under appropriate chain-of-custody documentation. Well sampling field logs are presented in Appendix A. Well sampling purge water was contained in a sealed and labeled 55-gallon steel drum and is being currently stored on-site until off-site disposal can be arranged.

4.0 GROUNDWATER SAMPLING ANALYSIS

All groundwater samples were analyzed by BC Laboratories, Inc. for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene and total xylenes (collectively known as BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8260B. The certified analytical report and chain-of-custody documentation are included as Appendix B. All data interpretation will be provided in the report prepared by Arcadis for all three properties in the comingled plume.

6.0 REPORT LIMITATIONS

The results presented in this report represent conditions at the time of the groundwater sampling, at the specific locations where the groundwater samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former underground storage tanks and associated plumbing at the site, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
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Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project, and trust that this report meets your needs. Please feel free to call us at (925) 820-9391 if you have any questions or comments.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

Robert E. Kitay, P.G., R.E.A.
Senior Geologist

Attachments: Figures 1 and 2
Appendices A and B

cc: Mr. Steven Plunkett, Alameda County Health Care Services Agency
RWQCB, San Francisco Bay Region via Geotracker

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
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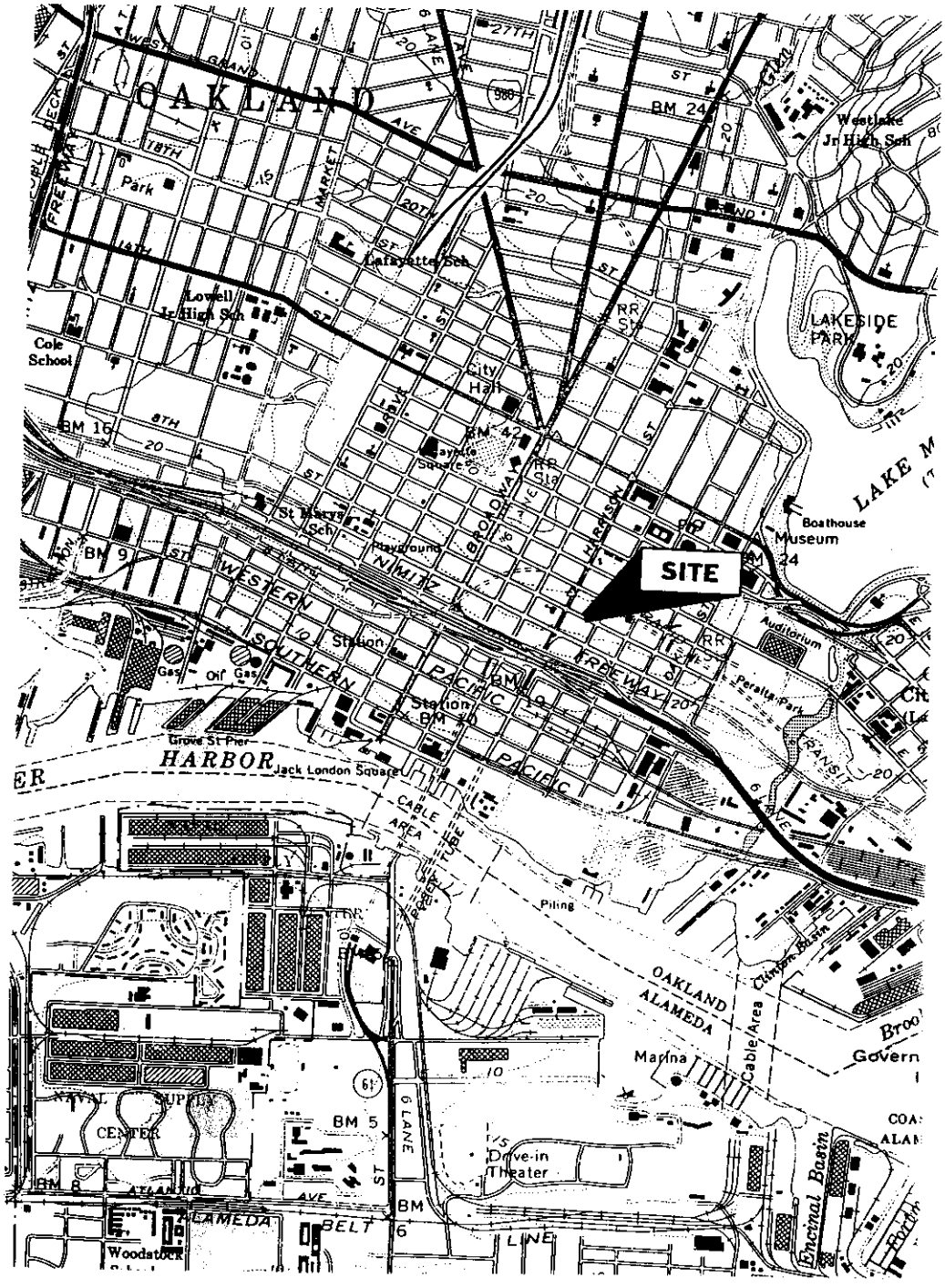
FIGURES

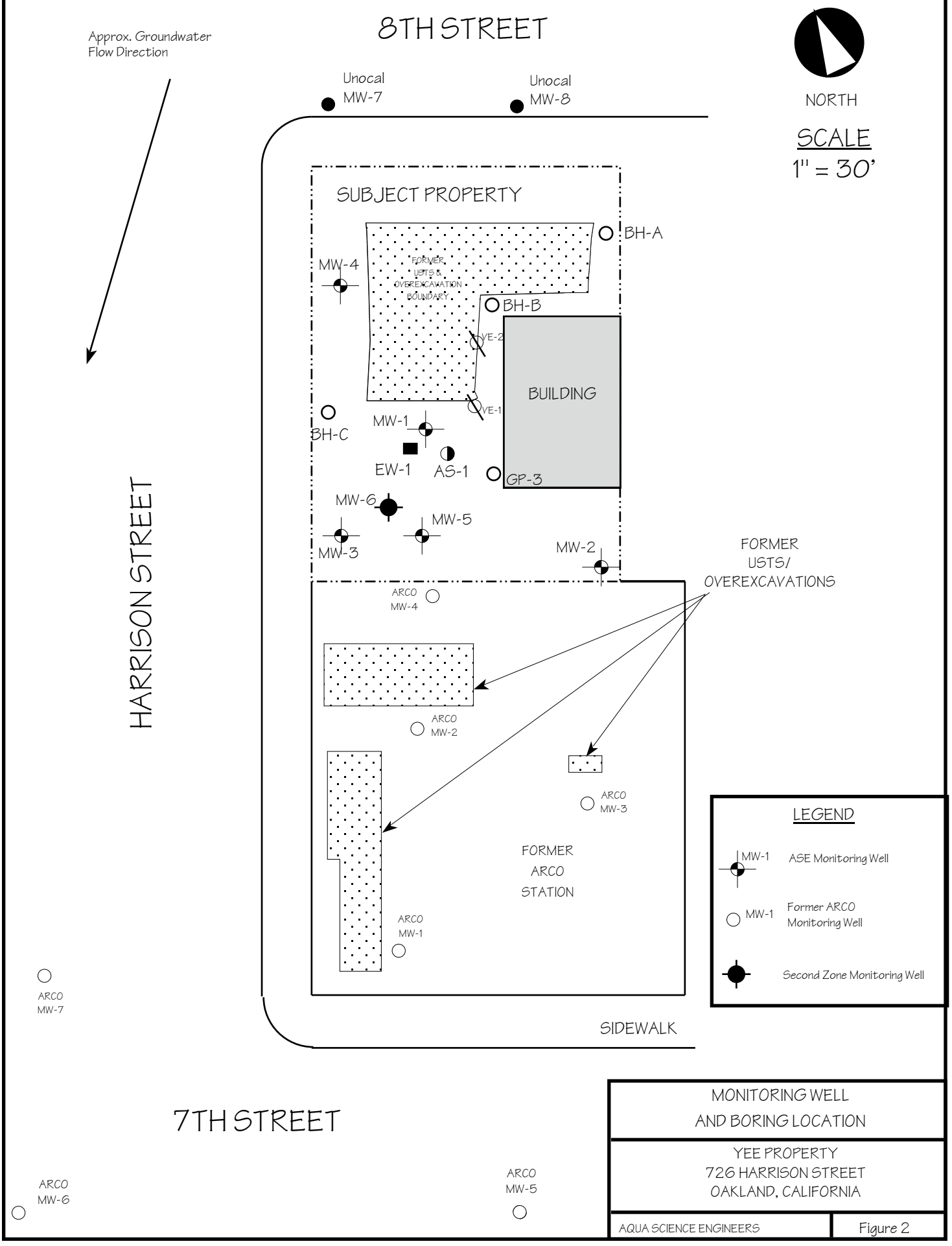
NORTH



SITE LOCATION MAP

YEE PROPERTY
726 HARRISON STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS | Figure 1



MONITORING WELL AND BORING LOCATION

YEE PROPERTY
726 HARRISON STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS | Figure 2

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
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APPENDIX A

Well Sampling Field Logs

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 08.23.11

WELL ID. MW-1 SAMPLER DA

TOTAL DEPTH OF WELL 27.2 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 18.60 TIME OF MEASUREMENT 0728

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 8.6

NUMBER OF GALLONS PER WELL CASING VOLUME 1.37

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4.1

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0752 TIME EVACUATION COMPLETED 0801

TIME SAMPLES WERE COLLECTED 0802

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 4.1

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR GRAY ODOR/SEDIMENT MOD HC / MOD

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.5	6.2	520
2	19.5	6.2	510
3	19.5	6.1	520

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-1	3	40 ml VOA	8260B	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 08.23.11

WELL ID. MW-2 SAMPLER DA

TOTAL DEPTH OF WELL 28.0 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 19.38 TIME OF MEASUREMENT 0724

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 8.62

NUMBER OF GALLONS PER WELL CASING VOLUME 1.38

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4.1

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0858 TIME EVACUATION COMPLETED 0908

TIME SAMPLES WERE COLLECTED 0910

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 4.1

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR BROWN ODOR/SEDIMENT NO / SL

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.4	6.5	370
2	19.4	6.4	380
3	19.3	6.5	370

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-2	3	40ml VOA	8260B	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 08.23.11

WELL ID. MW-3 SAMPLER DA

TOTAL DEPTH OF WELL 29.2 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 18.56 TIME OF MEASUREMENT 0725

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 10.64

NUMBER OF GALLONS PER WELL CASING VOLUME 1.7

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5.1

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0807 TIME EVACUATION COMPLETED 0817

TIME SAMPLES WERE COLLECTED 0818

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 5.1

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR LT GRAY ODOR/SEDIMENT NO / SL

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.6	6.5	370
2	19.7	6.5	410
3	19.7	6.5	405

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-3	3	40 ml VOA	8260B	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 08.23.11

WELL ID. MW-4 SAMPLER DA

TOTAL DEPTH OF WELL 29.7 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 18.88 TIME OF MEASUREMENT 0727

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 10.82

NUMBER OF GALLONS PER WELL CASING VOLUME 1.73

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5.2

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0738 TIME EVACUATION COMPLETED 0745

TIME SAMPLES WERE COLLECTED 0746

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 5.2

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR LT GRAY ODOR/SEDIMENT SL HC / SL

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.7	7.1	760
2	19.6	7.0	750
3	19.6	6.3	750

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-4	3	40 ml VOA	8260	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 08.23.11

WELL ID. MW-5 SAMPLER DA

TOTAL DEPTH OF WELL 28.5 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 19.02 TIME OF MEASUREMENT 0729

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 9.48

NUMBER OF GALLONS PER WELL CASING VOLUME 1.51

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4.5

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0842 TIME EVACUATION COMPLETED 0851

TIME SAMPLES WERE COLLECTED 0852

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 4.5

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR Grey ODOR/SEDIMENT MOD HC / MOD SL

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.4	5.7	1340
2	19.5	5.9	1310
3	19.5	6.0	1300

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-5	~~6~~ 3	40ml VOA	8260B	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 08.23.11

WELL ID. MW-6 SAMPLER DA

TOTAL DEPTH OF WELL 49.1 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 28.35 TIME OF MEASUREMENT 0726

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 20.75

NUMBER OF GALLONS PER WELL CASING VOLUME 3.32

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 10

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0822 TIME EVACUATION COMPLETED 0835

TIME SAMPLES WERE COLLECTED 0836

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 10

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR NONE ODOR/SEDIMENT NONE / NONE

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	20.0	6.7	350
2	19.7	6.9	450
3	19.8	6.9	450

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-6	3	40 ml VOA	8260B	✓

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
(925) 820-9391 - Fax (925) 837-4853 - www.aquascienceengineers.com

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation

Date of Report: 09/07/2011

Robert Kitay

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Project:	Yee
BC Work Order:	1113808
Invoice ID:	B106959

Enclosed are the results of analyses for samples received by the laboratory on 8/25/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Linda Phoudamneun

Contact Person: Linda Phoudamneun
Client Service Rep

Authorized Signature

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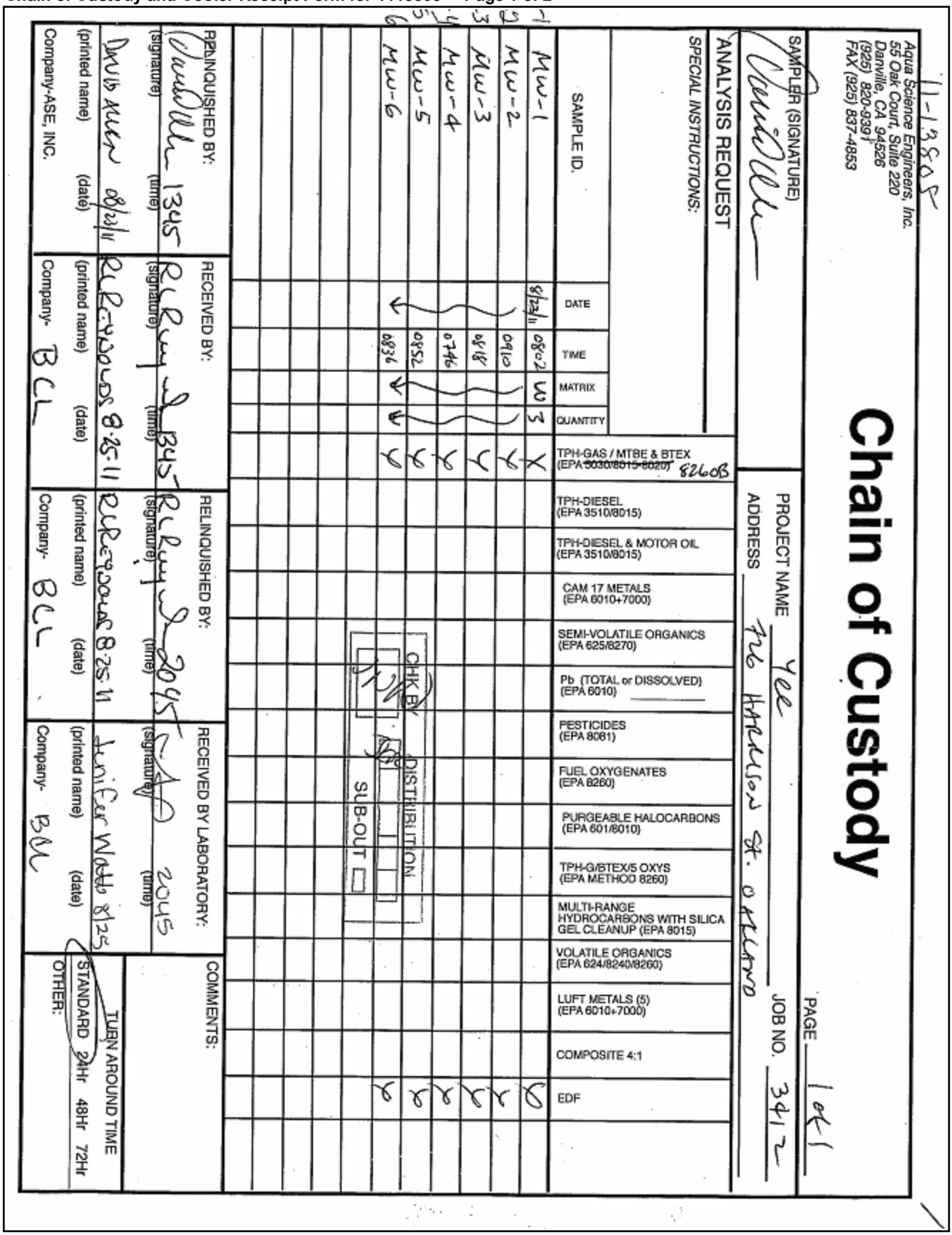
Chain of Custody and Cooler Receipt Form for 1113808 Page 1 of 2



11-13808

Aqua Science Engineers, Inc.
55 Oak Court, Suite 220
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

PAGE 1 of 1

SAMPLER (SIGNATURE) David Miller

PROJECT NAME Yee

ADDRESS 7th Harrison St. Oakland

JOB NO. 3412

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

	SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-GAS / MTBE & BTEX (EPA ~~5030/8015+8020~~ 8260B)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	CAM 17 METALS (EPA 6010+7000)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	Pb (TOTAL or DISSOLVED) (EPA 6010)	PESTICIDES (EPA 8081)	FUEL OXYGENATES (EPA 8260)	PURGEABLE HALOCARBONS (EPA 601/8010)	TPH-G/BTEX/5 OXYS (EPA METHOD 8260)	MULTI-RANGE HYDROCARBONS WITH SILICA GEL CLEANUP (EPA 8015)	VOLATILE ORGANICS (EPA 624/8240/8260)	LUFT METALS (5) (EPA 6010+7000)	COMPOSITE 4:1	EDF
1	MW-1	8/23/11	0802	W	3	X														X
2	MW-2		0910			X														X
3	MW-3		0818			X														X
4	MW-4		0746			X														X
5	MW-5		0852			X														X
6	MW-6		0836			X														X

CHK BY DISTRIBUTION
SUB-OUT

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:
(signature) David Miller	(signature) Ruben Lopez	(signature) Ruben Lopez	(signature)
(time) 1345	(time) 1345	(time) 2045	(time) 2045
(printed name) David Miller	(printed name) Ruben Lopez	(printed name) Ruben Lopez	(printed name) Jennifer Wade
(date) 08/23/11	(date) 8-25-11	(date) 8-25-11	(date) 8/25
Company-ASE, INC.	Company- BCL	Company- BCL	Company- BCL

COMMENTS:

TURN AROUND TIME
STANDARD 24Hr 48Hr 72Hr
OTHER:

Chain of Custody and Cooler Receipt Form for 1113808 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 11-13808

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☑ Intact? Yes ☑ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: DrA Thermometer ID: 103

Temperature: A 11.1 °C / C 3.8 °C

Date/Time 8/25/11 2050

Analyst Init: JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
P/A PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A 3	A 3	A 3	A 3	A 3	A 3				
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: MM Date/Time: 8/25/11 2110

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 09/07/2011 14:16
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1113808-01	**COC Number:**	---	**Receive Date:**	08/25/2011 20:45
	Project Number:	Yee	**Sampling Date:**	08/23/2011 08:02
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water
1113808-02	**COC Number:**	---	**Receive Date:**	08/25/2011 20:45
	Project Number:	Yee	**Sampling Date:**	08/23/2011 09:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water
1113808-03	**COC Number:**	---	**Receive Date:**	08/25/2011 20:45
	Project Number:	Yee	**Sampling Date:**	08/23/2011 08:18
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water
1113808-04	**COC Number:**	---	**Receive Date:**	08/25/2011 20:45
	Project Number:	Yee	**Sampling Date:**	08/23/2011 07:46
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water
1113808-05	**COC Number:**	---	**Receive Date:**	08/25/2011 20:45
	Project Number:	Yee	**Sampling Date:**	08/23/2011 08:52
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water
1113808-06	**COC Number:**	---	**Receive Date:**	08/25/2011 20:45
	Project Number:	Yee	**Sampling Date:**	08/23/2011 08:36
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-6	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 09/07/2011 14:16
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1113808-01 | **Client Sample Name:** Yee, MW-1, 8/23/2011 8:02:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**290**	**ug/L**	**25**	**4.2**	**EPA-8260**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		2
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		2
Ethylbenzene	**66**	**ug/L**	**0.50**	**0.098**	**EPA-8260**	ND		2
Methyl t-butyl ether	**4700**	**ug/L**	**120**	**28**	**EPA-8260**	ND	**A01**	3
Toluene	**36**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	ND		2
Total Xylenes	**79**	**ug/L**	**1.0**	**0.36**	**EPA-8260**	ND		2
p- & m-Xylenes	**69**	**ug/L**	**0.50**	**0.28**	**EPA-8260**	ND		2
o-Xylene	**10**	**ug/L**	**0.50**	**0.082**	**EPA-8260**	ND		2
Total Purgeable Petroleum Hydrocarbons	**8200**	**ug/L**	**2500**	**360**	**Luft-GC/MS**	ND	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	96.8	%	76 - 114 (LCL - UCL)		EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	112	%	76 - 114 (LCL - UCL)		EPA-8260			2
1,2-Dichloroethane-d4 (Surrogate)	114	%	76 - 114 (LCL - UCL)		EPA-8260			3
Toluene-d8 (Surrogate)	99.5	%	88 - 110 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	93.7	%	88 - 110 (LCL - UCL)		EPA-8260			2
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260			3
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260			2
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	09/02/11	09/02/11 11:53	JMC	MS-V12	50	BUI0113
2	EPA-8260	08/30/11	08/31/11 00:55	JMC	MS-V10	1	BUH2266
3	EPA-8260	09/02/11	09/02/11 12:31	JMC	MS-V12	250	BUI0113

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Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1113808-02 | **Client Sample Name:** Yee, MW-2, 8/23/2011 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Methyl t-butyl ether	**0.37**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	7.2	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	83.4	%	88 - 110 (LCL - UCL)		EPA-8260		S09	1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/30/11	08/31/11 00:37	JMC	MS-V10	1	BUH2266

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Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1113808-03 | **Client Sample Name:** Yee, MW-3, 8/23/2011 8:18:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Methyl t-butyl ether	**9.1**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**60**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.7	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	90.4	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/30/11	08/31/11 00:19	JMC	MS-V10	1	BUH2266

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Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1113808-04 | **Client Sample Name:** Yee, MW-4, 8/23/2011 7:46:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**36**	**ug/L**	**0.50**	**0.083**	**EPA-8260**	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Ethylbenzene	**0.69**	**ug/L**	**0.50**	**0.098**	**EPA-8260**	ND		1
Methyl t-butyl ether	**32**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	ND		1
Toluene	**1.3**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	ND		1
Total Xylenes	**3.6**	**ug/L**	**1.0**	**0.36**	**EPA-8260**	ND		1
p- & m-Xylenes	**3.1**	**ug/L**	**0.50**	**0.28**	**EPA-8260**	ND		1
o-Xylene	**0.50**	**ug/L**	**0.50**	**0.082**	**EPA-8260**	ND		1
Total Purgeable Petroleum Hydrocarbons	**630**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	09/02/11	09/02/11 10:18	JMC	MS-V12	1	BUI0045

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1113808-05 | **Client Sample Name:** Yee, MW-5, 8/23/2011 8:52:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**1100**	**ug/L**	**25**	**4.2**	**EPA-8260**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	25	8.0	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	25	8.5	EPA-8260	ND	A01	1
Ethylbenzene	**190**	**ug/L**	**25**	**4.9**	**EPA-8260**	ND	**A01**	1
Methyl t-butyl ether	**14000**	**ug/L**	**120**	**28**	**EPA-8260**	ND	**A01**	2
Toluene	**400**	**ug/L**	**25**	**4.6**	**EPA-8260**	ND	**A01**	1
Total Xylenes	**390**	**ug/L**	**50**	**18**	**EPA-8260**	ND	**A01**	1
p- & m-Xylenes	**230**	**ug/L**	**25**	**14**	**EPA-8260**	ND	**A01**	1
o-Xylene	**160**	**ug/L**	**25**	**4.1**	**EPA-8260**	ND	**A01**	1
Total Purgeable Petroleum Hydrocarbons	**19000**	**ug/L**	**2500**	**360**	**Luft-GC/MS**	ND	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)		EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	76 - 114 (LCL - UCL)		EPA-8260			2
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	105	%	88 - 110 (LCL - UCL)		EPA-8260			2
4-Bromofluorobenzene (Surrogate)	96.3	%	86 - 115 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	108	%	86 - 115 (LCL - UCL)		EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	09/02/11	09/02/11 11:15	JMC	MS-V12	50	BUI0113
2	EPA-8260	09/01/11	09/02/11 12:12	JMC	MS-V12	250	BUI0113

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1113808-06 | **Client Sample Name:** Yee, MW-6, 8/23/2011 8:36:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2-Dichloroethane	**1.3**	**ug/L**	**0.50**	**0.17**	**EPA-8260**	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Methyl t-butyl ether	**740**	**ug/L**	**10**	**2.2**	**EPA-8260**	ND	**A01**	2
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**500**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)		EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)		EPA-8260			2
Toluene-d8 (Surrogate)	94.7	%	88 - 110 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260			2
4-Bromofluorobenzene (Surrogate)	96.1	%	86 - 115 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.7	%	86 - 115 (LCL - UCL)		EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/30/11	08/30/11 23:25	JMC	MS-V10	1	BUH2266
2	EPA-8260	09/02/11	09/02/11 10:56	JMC	MS-V12	20	BUI0045

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Reported: 09/07/2011 14:16
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUH2266						
Benzene	BUH2266-BLK1	ND	ug/L	0.50	0.083	
1,2-Dibromoethane	BUH2266-BLK1	ND	ug/L	0.50	0.16	
1,2-Dichloroethane	BUH2266-BLK1	ND	ug/L	0.50	0.17	
Ethylbenzene	BUH2266-BLK1	ND	ug/L	0.50	0.098	
Methyl t-butyl ether	BUH2266-BLK1	ND	ug/L	0.50	0.11	
Toluene	BUH2266-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	BUH2266-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BUH2266-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BUH2266-BLK1	ND	ug/L	0.50	0.082	
Total Purgeable Petroleum Hydrocarbons	BUH2266-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BUH2266-BLK1	100	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUH2266-BLK1	97.1	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUH2266-BLK1	98.1	%	86 - 115 (LCL - UCL)		
QC Batch ID: BUI0045						
Benzene	BUI0045-BLK1	ND	ug/L	0.50	0.083	
1,2-Dibromoethane	BUI0045-BLK1	ND	ug/L	0.50	0.16	
1,2-Dichloroethane	BUI0045-BLK1	ND	ug/L	0.50	0.17	
Ethylbenzene	BUI0045-BLK1	ND	ug/L	0.50	0.098	
Methyl t-butyl ether	BUI0045-BLK1	ND	ug/L	0.50	0.11	
Toluene	BUI0045-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	BUI0045-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BUI0045-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BUI0045-BLK1	ND	ug/L	0.50	0.082	
Total Purgeable Petroleum Hydrocarbons	BUI0045-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BUI0045-BLK1	97.1	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUI0045-BLK1	104	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUI0045-BLK1	105	%	86 - 115 (LCL - UCL)		
QC Batch ID: BUI0113						
Benzene	BUI0113-BLK1	ND	ug/L	0.50	0.083	
1,2-Dibromoethane	BUI0113-BLK1	ND	ug/L	0.50	0.16	
1,2-Dichloroethane	BUI0113-BLK1	ND	ug/L	0.50	0.17	
Ethylbenzene	BUI0113-BLK1	ND	ug/L	0.50	0.098	
Methyl t-butyl ether	BUI0113-BLK1	ND	ug/L	0.50	0.11	

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUI0113						
Toluene	BUI0113-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	BUI0113-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BUI0113-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BUI0113-BLK1	ND	ug/L	0.50	0.082	
Total Purgeable Petroleum Hydrocarbons	BUI0113-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BUI0113-BLK1	105	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUI0113-BLK1	104	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUI0113-BLK1	98.7	%	86 - 115 (LCL - UCL)		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUH2266										
Benzene	BUH2266-BS1	LCS	24.160	25.000	ug/L	96.6		70 - 130		
Toluene	BUH2266-BS1	LCS	25.940	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUH2266-BS1	LCS	10.440	10.000	ug/L	104		76 - 114		
Toluene-d8 (Surrogate)	BUH2266-BS1	LCS	9.7300	10.000	ug/L	97.3		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUH2266-BS1	LCS	10.040	10.000	ug/L	100		86 - 115		
QC Batch ID: BUI0045										
Benzene	BUI0045-BS1	LCS	30.270	25.000	ug/L	121		70 - 130		
Toluene	BUI0045-BS1	LCS	31.940	25.000	ug/L	128		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUI0045-BS1	LCS	10.530	10.000	ug/L	105		76 - 114		
Toluene-d8 (Surrogate)	BUI0045-BS1	LCS	9.9600	10.000	ug/L	99.6		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUI0045-BS1	LCS	9.7400	10.000	ug/L	97.4		86 - 115		
QC Batch ID: BUI0113										
Benzene	BUI0113-BS1	LCS	22.500	25.000	ug/L	90.0		70 - 130		
Toluene	BUI0113-BS1	LCS	25.920	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUI0113-BS1	LCS	9.9300	10.000	ug/L	99.3		76 - 114		
Toluene-d8 (Surrogate)	BUI0113-BS1	LCS	10.460	10.000	ug/L	105		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUI0113-BS1	LCS	10.440	10.000	ug/L	104		86 - 115		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUH2266	Used client sample: N										
Benzene	MS	1113850-01	ND	28.460	25.000	ug/L		114		70 - 130	
	MSD	1113850-01	ND	28.700	25.000	ug/L	0.8	115	20	70 - 130	
Toluene	MS	1113850-01	ND	30.880	25.000	ug/L		124		70 - 130	
	MSD	1113850-01	ND	29.260	25.000	ug/L	5.4	117	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1113850-01	ND	10.090	10.000	ug/L		101		76 - 114	
	MSD	1113850-01	ND	10.720	10.000	ug/L	6.1	107		76 - 114	
Toluene-d8 (Surrogate)	MS	1113850-01	ND	9.5000	10.000	ug/L		95.0		88 - 110	
	MSD	1113850-01	ND	9.8600	10.000	ug/L	3.7	98.6		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1113850-01	ND	10.250	10.000	ug/L		102		86 - 115	
	MSD	1113850-01	ND	9.7200	10.000	ug/L	5.3	97.2		86 - 115	
QC Batch ID: BUI0045	Used client sample: N										
Benzene	MS	1113168-45	ND	27.650	25.000	ug/L		111		70 - 130	
	MSD	1113168-45	ND	25.400	25.000	ug/L	8.5	102	20	70 - 130	
Toluene	MS	1113168-45	ND	31.680	25.000	ug/L		127		70 - 130	
	MSD	1113168-45	ND	29.600	25.000	ug/L	6.8	118	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1113168-45	ND	10.030	10.000	ug/L		100		76 - 114	
	MSD	1113168-45	ND	9.6100	10.000	ug/L	4.3	96.1		76 - 114	
Toluene-d8 (Surrogate)	MS	1113168-45	ND	10.360	10.000	ug/L		104		88 - 110	
	MSD	1113168-45	ND	10.250	10.000	ug/L	1.1	102		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1113168-45	ND	10.610	10.000	ug/L		106		86 - 115	
	MSD	1113168-45	ND	10.960	10.000	ug/L	3.2	110		86 - 115	
QC Batch ID: BUI0113	Used client sample: N										
Benzene	MS	1114039-01	ND	22.220	25.000	ug/L		88.9		70 - 130	
	MSD	1114039-01	ND	22.560	25.000	ug/L	1.5	90.2	20	70 - 130	
Toluene	MS	1114039-01	ND	23.210	25.000	ug/L		92.8		70 - 130	
	MSD	1114039-01	ND	26.160	25.000	ug/L	12.0	105	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1114039-01	ND	9.8600	10.000	ug/L		98.6		76 - 114	
	MSD	1114039-01	ND	9.9800	10.000	ug/L	1.2	99.8		76 - 114	
Toluene-d8 (Surrogate)	MS	1114039-01	ND	10.230	10.000	ug/L		102		88 - 110	
	MSD	1114039-01	ND	10.630	10.000	ug/L	3.8	106		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1114039-01	ND	10.210	10.000	ug/L		102		86 - 115	
	MSD	1114039-01	ND	10.180	10.000	ug/L	0.3	102		86 - 115	

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Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
S09	The surrogate recovery on the sample for this compound was not within the control limits.