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 3/20/2012 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 30, 2012

GROUNDWATER SAMPLING DATA REPORT
AUGUST 2012 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

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

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 9, 2012 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 9, 2012, 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. Tables and a potentiometric surface map will be provided in a report prepared by Arcadis for all three properties.

3.0 GROUNDWATER SAMPLE COLLECTION

On August 9, 2012, 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) by modified EPA Method 8015, and benzene, toluene, ethylbenzene and xylenes (collectively known as BTEX), methyl tertiary butyl ether (MTBE), and lead scavengers 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
(925) 820-9391 - Fax (925) 837-4853 - www.aquascienceengineers.com

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

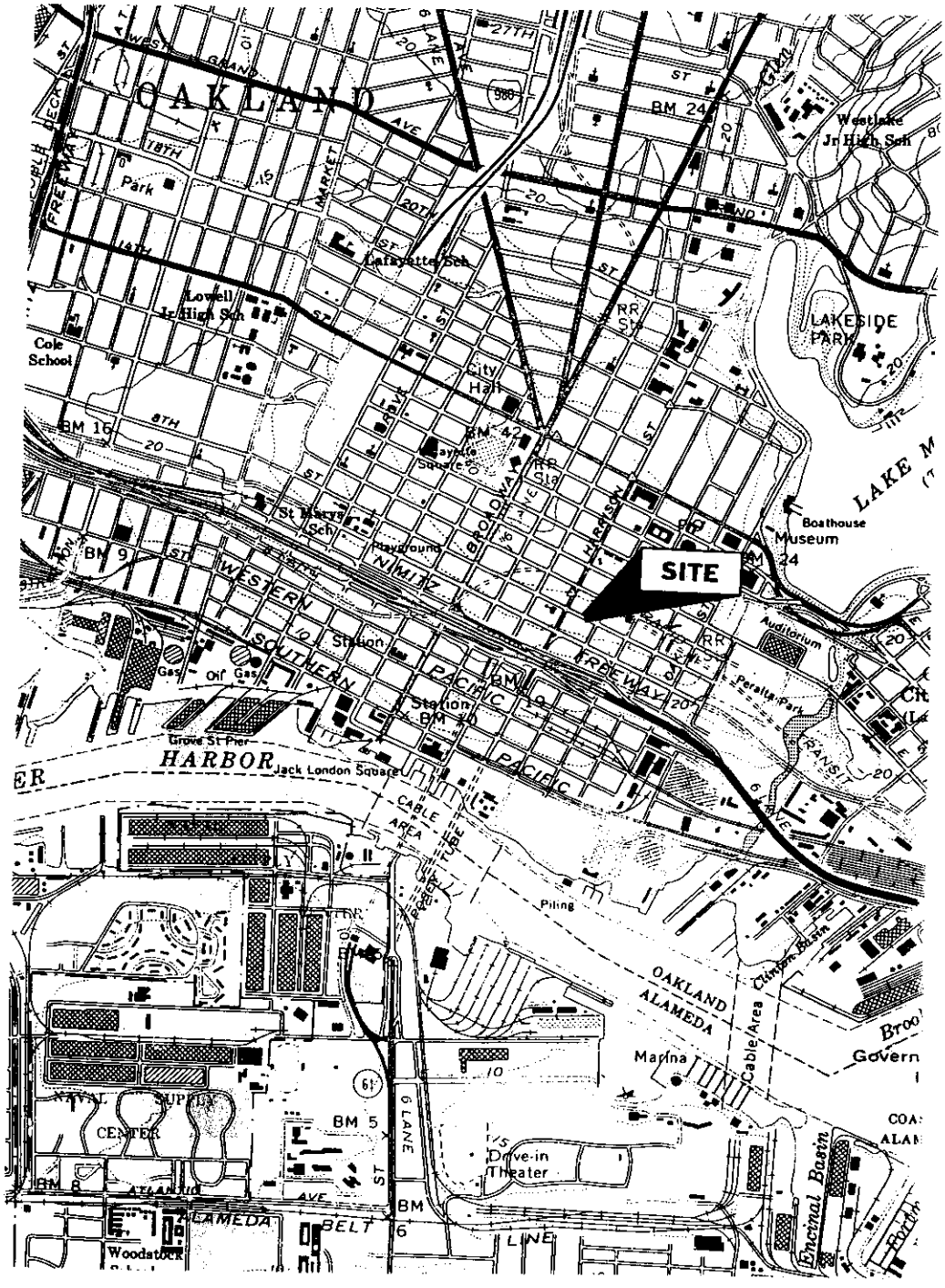
Attachments: Figures 1 and 2
Appendices A and B

cc: Mr. Peter Yee, property owner
Mr. Steven Plunkett, Alameda County Health Care Services Agency via FTP upload
RWQCB, San Francisco Bay Region via Geotracker

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

FIGURES

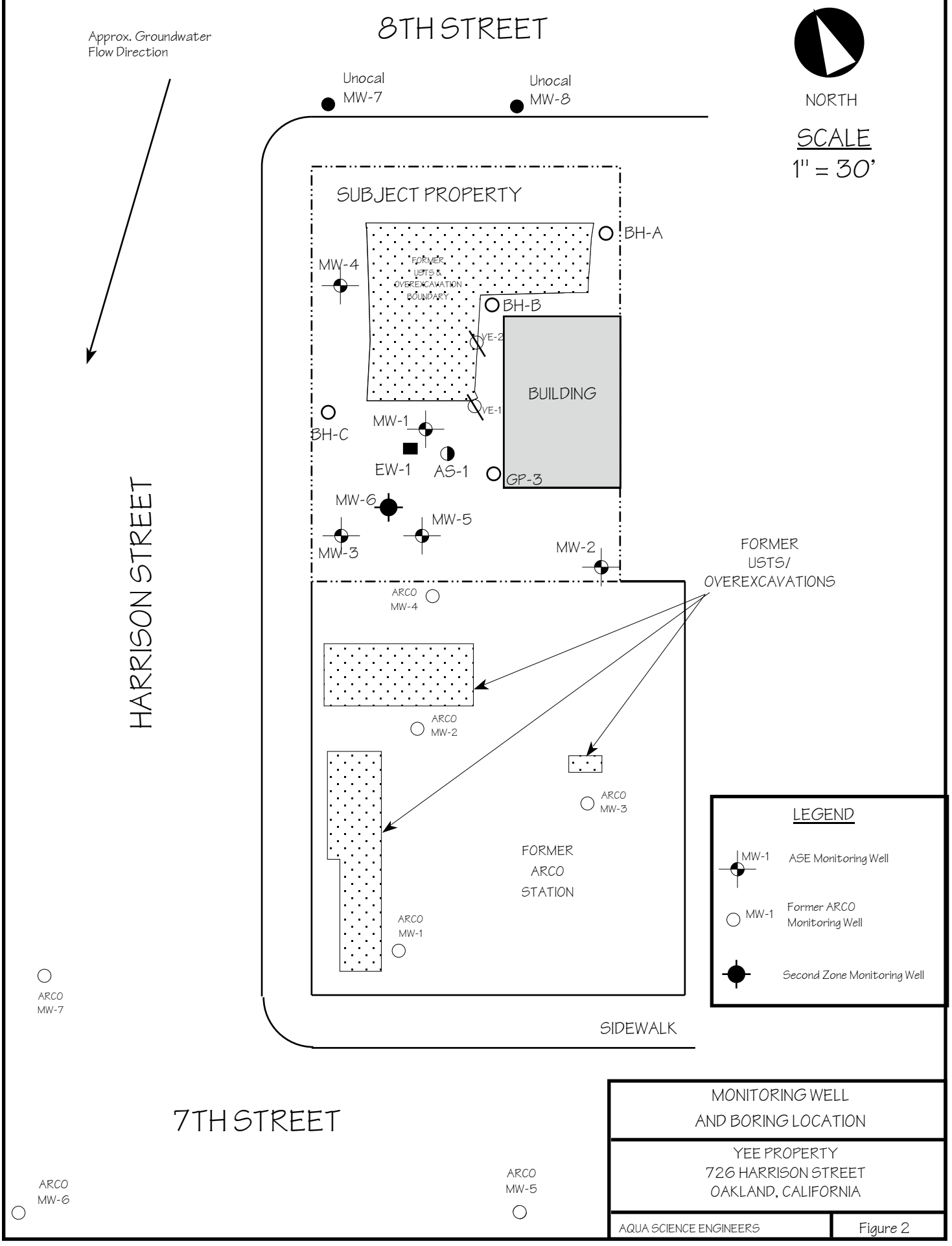
NORTH



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 08.09.12

WELL ID. MW-1 SAMPLER DA

TOTAL DEPTH OF WELL 27.2 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 17.82 TIME OF MEASUREMENT 6.36

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 9.38

NUMBER OF GALLONS PER WELL CASING VOLUME 1.5

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 0650 TIME EVACUATION COMPLETED 0701

TIME SAMPLES WERE COLLECTED 0702

DID WELL GO DRY NO AFTER HOW MANY GALLONS ---

VOLUME OF GROUNDWATER PURGED 4.5

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR Lt Gray ODOR/SEDIMENT None

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.0	7.3	620
2	19.1	7.0	540
3	19.1	7.0	530

SAMPLES COLLECTED

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

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 08.09.12

WELL ID. MW-2 SAMPLER DA

TOTAL DEPTH OF WELL 28.10 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 18.55 TIME OF MEASUREMENT 0628

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 9.45

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 0725 TIME EVACUATION COMPLETED

TIME SAMPLES WERE COLLECTED 0730

DID WELL GO DRY NO AFTER HOW MANY GALLONS

VOLUME OF GROUNDWATER PURGED 4.5

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR CLR ODOR/SEDIMENT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.3	7.2	360
2	19.2	7.0	350
3	19.1	6.9	350

SAMPLES COLLECTED

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

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 08.09.12

WELL ID. MW-3 SAMPLER ~~DA~~

TOTAL DEPTH OF WELL 29.2 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 17.74 TIME OF MEASUREMENT 0630

PRODUCT THICKNESS ~~0~~

DEPTH OF WELL CASING IN WATER 11.46

NUMBER OF GALLONS PER WELL CASING VOLUME 1.83

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5.5

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED TIME EVACUATION COMPLETED

TIME SAMPLES WERE COLLECTED

DID WELL GO DRY AFTER HOW MANY GALLONS

VOLUME OF GROUNDWATER PURGED

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR ODOR/SEDIMENT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1			
2			
3			

SAMPLES COLLECTED

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

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 08.09.12

WELL ID. MW-4 SAMPLER DA

TOTAL DEPTH OF WELL 29.7 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 18.16 TIME OF MEASUREMENT 0632

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 11.54

NUMBER OF GALLONS PER WELL CASING VOLUME 1.84

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5.5

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 0709 TIME EVACUATION COMPLETED

TIME SAMPLES WERE COLLECTED

DID WELL GO DRY NO AFTER HOW MANY GALLONS

VOLUME OF GROUNDWATER PURGED 5.5

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR Light Brown ODOR/SEDIMENT None

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	P.H	CONDUCTIVITY
1	19.3	7.0	600
2	19.3	6.9	
3	19.3	6.9	

SAMPLES COLLECTED

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

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 08.09.12

WELL ID. MW-5 SAMPLER DA

TOTAL DEPTH OF WELL 28.5 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING TIME OF MEASUREMENT 0820

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 10.24

NUMBER OF GALLONS PER WELL CASING VOLUME 1.64

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED TIME EVACUATION COMPLETED 0825

TIME SAMPLES WERE COLLECTED 0840

DID WELL GO DRY NO AFTER HOW MANY GALLONS ——

VOLUME OF GROUNDWATER PURGED 5

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR CLEAR ODOR/SEDIMENT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	18.4	7.2	20
2			
3			

SAMPLES COLLECTED

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

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 08.09.12

WELL ID. MW-6 SAMPLER ~~DA~~

TOTAL DEPTH OF WELL 47.1 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING TIME OF MEASUREMENT

PRODUCT THICKNESS

DEPTH OF WELL CASING IN WATER 30.23

NUMBER OF GALLONS PER WELL CASING VOLUME

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED TIME EVACUATION COMPLETED

TIME SAMPLES WERE COLLECTED

DID WELL GO DRY AFTER HOW MANY GALLONS

VOLUME OF GROUNDWATER PURGED

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR ODOR/SEDIMENT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	P.H	CONDUCTIVITY
1			
2			
3			

SAMPLES COLLECTED

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

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

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 08/16/2012

Robert Kitay

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

Project:	Yee
BC Work Order:	1215020
Invoice ID:	B128032

Enclosed are the results of analyses for samples received by the laboratory on 8/10/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Kerrie Vaughan
Client Services

Authorized Signature

Table of Contents

12-15020

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 Allen

PROJECT NAME YEE JOB NO. 3412

ADDRESS 726 HARRISON ST. OAKLAND

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	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	TPH-G/BTEX/MTBE 1,2-DCA, EDB by EPA 8260B
MW-1 -1	8/9/12	0702	W	3															Y	X
MW-2 -2		0732																	Y	X
MW-3 -3		0815																	Y	X
MW-4 -4		0718																	Y	X
MW-5 -5		0840																	Y	X
MW-6 -6		0802																	Y	X

CHK BY JWP DISTRIBUTION JWP SUB-OUT

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:
(signature) David Allen (time) 1150	(signature) Gary Bogan (time) 1150	(signature) Gary Bogan (time)	(signature) (time)
(printed name) DAVID ALLEN (date)	(printed name) GARY BOGAN (date)	(printed name) GARY BOGAN 1555 (date)	(printed name) Jerry Mason 1555 (date)
Company-ASE, INC. 8-10-12	Company- BCLAB 8-10-12	Company BCLAB 8-10-12	Company- BCL 8-10-12

COMMENTS:

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

Rel - Jerry Mason Jerry Mason 8-10-12 1850 KCM 8-10-12 1850

Chain of Custody and Cooler Receipt Form for 1215020 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 1 Of 1

Submission #: 12-15020

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: 0.95 Container: 04A Thermometer ID: 207

Temperature: (A) 2.1 °C / (C) 2.1 °C

Date/Time 5-10-12 1850

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										
PtA 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: KIQ Date/Time: 8/10/12 2210
A = Actual / C = Corrected

I:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC2I

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

Reported: 08/16/2012 15:00
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1215020-01	**COC Number:**	---	**Receive Date:**	08/10/2012 18:50
	Project Number:	YEE	**Sampling Date:**	08/09/2012 07:02
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600102122			
	Location ID (FieldPoint):			
	Matrix: WX			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1215020-02	**COC Number:**	---	**Receive Date:**	08/10/2012 18:50
	Project Number:	YEE	**Sampling Date:**	08/09/2012 07:32
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600102122			
	Location ID (FieldPoint):			
	Matrix: WX			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1215020-03	**COC Number:**	---	**Receive Date:**	08/10/2012 18:50
	Project Number:	YEE	**Sampling Date:**	08/09/2012 08:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600102122			
	Location ID (FieldPoint):			
	Matrix: WX			
	Sample QC Type (SACode): CS			
	Cooler ID:			

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

Reported: 08/16/2012 15:00
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1215020-04	**COC Number:**	---	**Receive Date:**	08/10/2012 18:50
	Project Number:	YEE	**Sampling Date:**	08/09/2012 07:18
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600102122	
			Location ID (FieldPoint):	
			Matrix: WX	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1215020-05	**COC Number:**	---	**Receive Date:**	08/10/2012 18:50
	Project Number:	YEE	**Sampling Date:**	08/09/2012 08:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600102122	
			Location ID (FieldPoint):	
			Matrix: WX	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1215020-06	**COC Number:**	---	**Receive Date:**	08/10/2012 18:50
	Project Number:	YEE	**Sampling Date:**	08/09/2012 08:02
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-6	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600102122	
			Location ID (FieldPoint):	
			Matrix: WX	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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

Reported: 08/16/2012 15:00
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1215020-01 | **Client Sample Name:** YEE, MW-1, 8/9/2012 7:02:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**760**	**ug/L**	**6.2**	**1.0**	**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	**58**	**ug/L**	**0.50**	**0.098**	**EPA-8260**	ND		2
Methyl t-butyl ether	**6700**	**ug/L**	**50**	**11**	**EPA-8260**	ND	**A01**	3
Toluene	**27**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	ND		2
Total Xylenes	**60**	**ug/L**	**1.0**	**0.36**	**EPA-8260**	ND		2
p- & m-Xylenes	**52**	**ug/L**	**0.50**	**0.28**	**EPA-8260**	ND		2
o-Xylene	**8.2**	**ug/L**	**0.50**	**0.082**	**EPA-8260**	ND		2
Total Purgeable Petroleum Hydrocarbons	**6600**	**ug/L**	**620**	**90**	**Luft-GC/MS**	ND	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	98.0	%	75 - 125 (LCL - UCL)		EPA-8260			2
1,2-Dichloroethane-d4 (Surrogate)	97.1	%	75 - 125 (LCL - UCL)		EPA-8260			3
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	94.0	%	80 - 120 (LCL - UCL)		EPA-8260			2
Toluene-d8 (Surrogate)	106	%	80 - 120 (LCL - UCL)		EPA-8260			3
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	125	%	80 - 120 (LCL - UCL)		EPA-8260		S09	2
4-Bromofluorobenzene (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-8260			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/13/12	08/14/12 14:36	JMC	MS-V12	12.500	BVH0912
2	EPA-8260	08/13/12	08/13/12 23:30	JMC	MS-V12	1	BVH0912
3	EPA-8260	08/13/12	08/14/12 14:54	JMC	MS-V12	100	BVH0912

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

Reported: 08/16/2012 15:00
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1215020-02 | **Client Sample Name:** YEE, MW-2, 8/9/2012 7:32:00AM

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	ND	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	ND	ug/L	50	7.2	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	75 - 125 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	91.7	%	80 - 120 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.0	%	80 - 120 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/13/12	08/13/12 23:12	JMC	MS-V12	1	BVH0912

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

Reported: 08/16/2012 15:00
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1215020-03 | **Client Sample Name:** YEE, MW-3, 8/9/2012 8:15:00AM

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	**9.2**	**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	**39**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	ND	**J**	1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	94.8	%	80 - 120 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.0	%	80 - 120 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/13/12	08/13/12 22:54	JMC	MS-V12	1	BVH0912

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Reported: 08/16/2012 15:00
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Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1215020-04 | **Client Sample Name:** YEE, MW-4, 8/9/2012 7:18:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**2.0**	**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	**21**	**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	**280**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/13/12	08/13/12 22:36	JMC	MS-V12	1	BVH0912

Aqua Science Engineers, Inc.
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Danville, CA 94526

Reported: 08/16/2012 15:00
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Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1215020-05 | **Client Sample Name:** YEE, MW-5, 8/9/2012 8:40:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**1400**	**ug/L**	**50**	**8.3**	**EPA-8260**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	5.0	1.6	EPA-8260	ND	A01	2
1,2-Dichloroethane	ND	ug/L	5.0	1.7	EPA-8260	ND	A01	2
Ethylbenzene	**470**	**ug/L**	**5.0**	**0.98**	**EPA-8260**	ND	**A01**	2
Methyl t-butyl ether	**16000**	**ug/L**	**250**	**55**	**EPA-8260**	ND	**A01**	3
Toluene	**580**	**ug/L**	**5.0**	**0.93**	**EPA-8260**	ND	**A01**	2
Total Xylenes	**960**	**ug/L**	**10**	**3.6**	**EPA-8260**	ND	**A01**	2
p- & m-Xylenes	**730**	**ug/L**	**5.0**	**2.8**	**EPA-8260**	ND	**A01**	2
o-Xylene	**220**	**ug/L**	**5.0**	**0.82**	**EPA-8260**	ND	**A01**	2
Total Purgeable Petroleum Hydrocarbons	**16000**	**ug/L**	**5000**	**720**	**Luft-GC/MS**	ND	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-8260			2
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-8260			3
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-8260			2
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260			3
4-Bromofluorobenzene (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	110	%	80 - 120 (LCL - UCL)		EPA-8260			2
4-Bromofluorobenzene (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-8260			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/13/12	08/14/12 14:18	JMC	MS-V12	100	BVH0912
2	EPA-8260	08/13/12	08/13/12 22:18	JMC	MS-V12	10	BVH0912
3	EPA-8260	08/13/12	08/15/12 10:22	JMC	MS-V12	500	BVH0912

Aqua Science Engineers, Inc.
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Danville, CA 94526

Reported: 08/16/2012 15:00
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Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1215020-06 | **Client Sample Name:** YEE, MW-6, 8/9/2012 8:02:00AM

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	**1.2**	**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	**970**	**ug/L**	**25**	**5.5**	**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	**830**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	ND	**A90**	1
1,2-Dichloroethane-d4 (Surrogate)	98.0	%	75 - 125 (LCL - UCL)		EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	99.6	%	75 - 125 (LCL - UCL)		EPA-8260			2
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260			2
4-Bromofluorobenzene (Surrogate)	95.9	%	80 - 120 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.7	%	80 - 120 (LCL - UCL)		EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/13/12	08/13/12 22:01	JMC	MS-V12	1	BVH0993
2	EPA-8260	08/13/12	08/14/12 14:00	JMC	MS-V12	50	BVH0993

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Danville, CA 94526

Reported: 08/16/2012 15:00
Project: Yee
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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: BVH0912						
Benzene	BVH0912-BLK1	ND	ug/L	0.50	0.083	
1,2-Dibromoethane	BVH0912-BLK1	ND	ug/L	0.50	0.16	
1,2-Dichloroethane	BVH0912-BLK1	ND	ug/L	0.50	0.17	
Ethylbenzene	BVH0912-BLK1	ND	ug/L	0.50	0.098	
Methyl t-butyl ether	BVH0912-BLK1	ND	ug/L	0.50	0.11	
Toluene	BVH0912-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	BVH0912-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BVH0912-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVH0912-BLK1	ND	ug/L	0.50	0.082	
Total Purgeable Petroleum Hydrocarbons	BVH0912-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BVH0912-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVH0912-BLK1	105	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVH0912-BLK1	98.9	%	80 - 120 (LCL - UCL)		
QC Batch ID: BVH0993						
Benzene	BVH0993-BLK1	ND	ug/L	0.50	0.083	
1,2-Dibromoethane	BVH0993-BLK1	ND	ug/L	0.50	0.16	
1,2-Dichloroethane	BVH0993-BLK1	ND	ug/L	0.50	0.17	
Ethylbenzene	BVH0993-BLK1	ND	ug/L	0.50	0.098	
Methyl t-butyl ether	BVH0993-BLK1	ND	ug/L	0.50	0.11	
Toluene	BVH0993-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	BVH0993-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BVH0993-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVH0993-BLK1	ND	ug/L	0.50	0.082	
Total Purgeable Petroleum Hydrocarbons	BVH0993-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BVH0993-BLK1	98.7	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVH0993-BLK1	107	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVH0993-BLK1	102	%	80 - 120 (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: BVH0912										
Benzene	BVH0912-BS1	LCS	30.200	25.000	ug/L	121		70 - 130		
Toluene	BVH0912-BS1	LCS	26.410	25.000	ug/L	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVH0912-BS1	LCS	10.300	10.000	ug/L	103		75 - 125		
Toluene-d8 (Surrogate)	BVH0912-BS1	LCS	10.340	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVH0912-BS1	LCS	10.610	10.000	ug/L	106		80 - 120		
QC Batch ID: BVH0993										
Benzene	BVH0993-BS1	LCS	30.140	25.000	ug/L	121		70 - 130		
Toluene	BVH0993-BS1	LCS	26.120	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVH0993-BS1	LCS	9.6400	10.000	ug/L	96.4		75 - 125		
Toluene-d8 (Surrogate)	BVH0993-BS1	LCS	10.090	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVH0993-BS1	LCS	10.370	10.000	ug/L	104		80 - 120		

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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: BVH0912	Used client sample: N										
Benzene	MS	1213312-46	ND	30.850	25.000	ug/L		123		70 - 130	
	MSD	1213312-46	ND	28.690	25.000	ug/L	7.3	115	20	70 - 130	
Toluene	MS	1213312-46	ND	26.610	25.000	ug/L		106		70 - 130	
	MSD	1213312-46	ND	25.770	25.000	ug/L	3.2	103	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1213312-46	ND	9.8100	10.000	ug/L		98.1		75 - 125	
	MSD	1213312-46	ND	9.3300	10.000	ug/L	5.0	93.3		75 - 125	
Toluene-d8 (Surrogate)	MS	1213312-46	ND	10.190	10.000	ug/L		102		80 - 120	
	MSD	1213312-46	ND	9.8100	10.000	ug/L	3.8	98.1		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1213312-46	ND	10.690	10.000	ug/L		107		80 - 120	
	MSD	1213312-46	ND	10.980	10.000	ug/L	2.7	110		80 - 120	
QC Batch ID: BVH0993	Used client sample: N										
Benzene	MS	1215016-04	ND	30.640	25.000	ug/L		123		70 - 130	
	MSD	1215016-04	ND	29.950	25.000	ug/L	2.3	120	20	70 - 130	
Toluene	MS	1215016-04	ND	25.370	25.000	ug/L		101		70 - 130	
	MSD	1215016-04	ND	25.140	25.000	ug/L	0.9	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1215016-04	ND	10.380	10.000	ug/L		104		75 - 125	
	MSD	1215016-04	ND	9.8100	10.000	ug/L	5.6	98.1		75 - 125	
Toluene-d8 (Surrogate)	MS	1215016-04	ND	10.040	10.000	ug/L		100		80 - 120	
	MSD	1215016-04	ND	9.7400	10.000	ug/L	3.0	97.4		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1215016-04	ND	10.370	10.000	ug/L		104		80 - 120	
	MSD	1215016-04	ND	10.580	10.000	ug/L	2.0	106		80 - 120	

Aqua Science Engineers, Inc.
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Danville, CA 94526

Reported: 08/16/2012 15:00
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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.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
S09	The surrogate recovery on the sample for this compound was not within the control limits.