

SLR-Portland

1800 Blankenship Road Suite 440
West Linn, OR 97068

Project Name: **Crowley**
Project Number: 008.0205.00007
Project Manager: Steve Hammer

Report Created:
10/03/07 16:02

BTEX Compounds per EPA Method 8260B - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7091079

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7091079-BLK1)

Extracted: 09/26/07 09:34

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	09/26/07 16:48	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 4-BFB</i>		<i>Recovery: 102%</i>		<i>Limits: 80-120%</i>										
<i>1,2-DCA-d4</i>		<i>113%</i>		<i>80-120%</i>										
<i>Dibromofluoromethane</i>		<i>106%</i>		<i>80-120%</i>										
<i>Toluene-d8</i>		<i>111%</i>		<i>80-120%</i>										

LCS (7091079-BS1)

Extracted: 09/26/07 09:34

Benzene	EPA 8260B	20.4	---	0.500	ug/l	1x	--	20.0	102%	(80-120)	--	--	09/26/07 15:27	
Toluene	"	21.7	---	0.500	"	"	--	"	108%	(80-125)	--	--	"	
Ethylbenzene	"	19.3	---	0.500	"	"	--	"	96.7%	(80-130)	--	--	"	
Xylenes (total)	"	58.4	---	1.00	"	"	--	60.0	97.4%	"	--	--	"	
<i>Surrogate(s): 4-BFB</i>		<i>Recovery: 103%</i>		<i>Limits: 80-120%</i>										
<i>1,2-DCA-d4</i>		<i>108%</i>		<i>80-120%</i>										
<i>Dibromofluoromethane</i>		<i>105%</i>		<i>80-120%</i>										
<i>Toluene-d8</i>		<i>109%</i>		<i>80-120%</i>										

LCS Dup (7091079-BSD1)

Extracted: 09/26/07 09:34

Benzene	EPA 8260B	20.6	---	0.500	ug/l	1x	--	20.0	103%	(80-120)	1.22%	(25)	09/26/07 15:54	
Toluene	"	22.4	---	0.500	"	"	--	"	112%	(80-125)	3.17%	"	"	
Ethylbenzene	"	20.1	---	0.500	"	"	--	"	100%	(80-130)	3.75%	"	"	
Xylenes (total)	"	60.8	---	1.00	"	"	--	60.0	101%	"	3.94%	"	"	
<i>Surrogate(s): 4-BFB</i>		<i>Recovery: 98.6%</i>		<i>Limits: 80-120%</i>										
<i>1,2-DCA-d4</i>		<i>98.5%</i>		<i>80-120%</i>										
<i>Dibromofluoromethane</i>		<i>99.8%</i>		<i>80-120%</i>										
<i>Toluene-d8</i>		<i>101%</i>		<i>80-120%</i>										

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Christina Woodcock, Project Manager



SLR-Portland

1800 Blankenship Road Suite 440
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Project Number: 008.0205.00007
Project Manager: Steve Hammer

Report Created:
10/03/07 16:02

Notes and Definitions

Report Specific Notes:

- Q12 - Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.



TestAmerica Sample Receipt Checklist

Cooler ID(s)

Received by: _____

(section A)
Date: 9-17
Time: 8:47
Initials: AF

***ESI Clients (see Section C)

Unpacked by: _____

(section B)
Date: 9-17
Initials: AF

Work Order No. PAUCS23
Client: SUR
Project: CRW

Temperature out of range

No Ice
 Ice Melted
 Within 4 Hours
 Other: _____

Cooler Temperature (IR) 5.4 °C plastic glass NA (oil/air samples, ESI client)

A Custody Seals: (# _____)

Signature: Y N Dated: _____
 None

Received from:

____ TA Courier
____ Senvoy
____ UPS
____ Fed Ex
 Client
____ TDP
____ DHL
____ SDS
____ Mid-Valley
____ GS/TA
____ GS/Senvoy
____ Other: _____

Container Type:

#Cooler(s)
 #Box(s)
 None (#Other: _____)

Coolant Type:

Gel Ice
 Loose Ice
 None

Packing Material:

Bubble Bags
 Styrofoam Cubbies
 None (Other: _____)

Sample Status:

(If N circled, see NOD)

General:
Intact? (Y) N
Containers Match COC? (Y) N none given
IDs Match COC? (Y) N
For Analyses Requested:
Correct Type & Preservation? (Y) N
Adequate Volume? (Y) N
Within Hold Time? (Y) N
Volatiles:
VOAs Free of Headspace? (Y) N NA
TB on COC? pet provided Y N NA
Metals:
HNO3 Preserved? (Y) N (NA)

C ***ESI Clients Only:

Army Corp: _____

Geiger (ticks/min): _____

Temperature Blank: _____ °C not provided
All preserved bottles checked Y N NA (voas/soils/all unp.)
All preserved accordingly? Y N (see NOD) NA (voas/soils/all unp.)

Project Managers: _____

Comments: _____

PM Reviewed: _____

(Initial/Date)

October 03, 2007

Steve Hammer
SLR-Portland
1800 Blankenship Road Suite 440
West Linn, OR 97068

RE: Crowley

Enclosed are the results of analyses for samples received by the laboratory on 08/31/07 11:50.
The following list is a summary of the Work Orders contained in this report, generated on 10/03/07
15:51.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
PQH1357	Crowley	008.205.00007



SLR-Portland

1800 Blankenship Road Suite 440
West Linn, OR 97068

Project Name: **Crowley**
Project Number: 008.205.00007
Project Manager: Steve Hammer

Report Created:
10/03/07 15:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	PQH1357-01	Water	08/30/07 11:33	08/31/07 11:50
MW-2	PQH1357-02	Water	08/30/07 13:50	08/31/07 11:50
MW-3	PQH1357-03	Water	08/30/07 11:01	08/31/07 11:50
MW-4	PQH1357-04	Water	08/30/07 12:16	08/31/07 11:50
MW-17	PQH1357-05	Water	08/30/07 10:22	08/31/07 11:50
RW-4	PQH1357-06	Water	08/30/07 15:38	08/31/07 11:50
EX-2	PQH1357-08	Water	08/31/07 08:26	08/31/07 11:50
MW-11	PQH1357-09	Water	08/31/07 09:03	08/31/07 11:50
MW-16	PQH1357-10	Water	08/31/07 09:37	08/31/07 11:50
MW-12	PQH1357-11	Water	08/31/07 10:05	08/31/07 11:50
MW-19	PQH1357-12	Water	08/31/07 08:07	08/31/07 11:50

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Gasoline Hydrocarbons per NW TPH-Gx Method
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-01 (MW-1)		Water			Sampled: 08/30/07 11:33					
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	---	80.0	ug/l	1x	7090335	09/10/07 12:57	09/10/07 19:51	
Surrogate(s):	+BFB		91.1%		50 - 150 %	"				"
PQH1357-02 (MW-2)		Water			Sampled: 08/30/07 13:50					
Gasoline Range Hydrocarbons	NW TPH-Gx	180	---	80.0	ug/l	1x	7090335	09/10/07 12:57	09/10/07 20:18	
Surrogate(s):	+BFB		92.9%		50 - 150 %	"				"
PQH1357-03 (MW-3)		Water			Sampled: 08/30/07 11:01					
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	----	80.0	ug/l	1x	7090335	09/10/07 12:57	09/10/07 20:46	
Surrogate(s):	+BFB		93.0%		50 - 150 %	"				"
PQH1357-04 (MW-4)		Water			Sampled: 08/30/07 12:16					
Gasoline Range Hydrocarbons	NW TPH-Gx	87.6	----	80.0	ug/l	1x	7090335	09/10/07 12:57	09/10/07 21:14	
Surrogate(s):	+BFB		95.6%		50 - 150 %	"				"
PQH1357-05 (MW-17)		Water			Sampled: 08/30/07 10:22					
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	----	80.0	ug/l	1x	7090335	09/10/07 12:57	09/10/07 21:41	
Surrogate(s):	+BFB		90.5%		50 - 150 %	"				"
PQH1357-08 (EX-2)		Water			Sampled: 08/31/07 08:26					
Gasoline Range Hydrocarbons	NW TPH-Gx	104	----	80.0	ug/l	1x	7090335	09/10/07 12:57	09/10/07 22:08	
Surrogate(s):	+BFB		97.3%		50 - 150 %	"				"
PQH1357-09 (MW-11)		Water			Sampled: 08/31/07 09:03					
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	----	80.0	ug/l	1x	7090335	09/10/07 12:57	09/10/07 22:35	
Surrogate(s):	+BFB		89.8%		50 - 150 %	"				"
PQH1357-10 (MW-16)		Water			Sampled: 08/31/07 09:37					
Gasoline Range Hydrocarbons	NW TPH-Gx	116	----	80.0	ug/l	1x	7090335	09/10/07 12:57	09/10/07 23:02	
Surrogate(s):	+BFB		101%		50 - 150 %	"				"

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name:	Crowley	Report Created:
	Project Number:	008.205.00007	10/03/07 15:51
	Project Manager:	Steve Hammer	

Gasoline Hydrocarbons per NW TPH-Gx Method
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-11 (MW-12)		Water			Sampled: 08/31/07 10:05					
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	---	80.0	ug/l	1x	7090520	09/13/07 13:35	09/14/07 19:03	
Surrogate(s): 4-BFB			101%		50 - 150 %	"				"

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name: Crowley Project Number: 008.205.00007 Project Manager: Steve Hammer	Report Created: 10/03/07 15:51
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Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-01 (MW-1)		Water			Sampled: 08/30/07 11:33					
Diesel Range Organics	NWTPH-Dx	5.60	----	0.236	mg/l	1x	7090422	09/12/07 12:00	09/15/07 04:28	
Heavy Oil Range Hydrocarbons	"	1.25	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			89.7%		50 - 150 %	"				"
PQH1357-02 (MW-2)		Water			Sampled: 08/30/07 13:50					
Diesel Range Organics	NWTPH-Dx	9.39	----	0.236	mg/l	1x	7090422	09/12/07 12:00	09/15/07 05:01	
Heavy Oil Range Hydrocarbons	"	2.85	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			89.1%		50 - 150 %	"				"
PQH1357-03 (MW-3)		Water			Sampled: 08/30/07 11:01					
Diesel Range Organics	NWTPH-Dx	9.39	----	0.236	mg/l	1x	7090422	09/12/07 12:00	09/15/07 05:35	
Heavy Oil Range Hydrocarbons	"	3.92	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			92.7%		50 - 150 %	"				"
PQH1357-04 (MW-4)		Water			Sampled: 08/30/07 12:16					
Diesel Range Organics	NWTPH-Dx	15.6	----	0.238	mg/l	1x	7090422	09/12/07 12:00	09/15/07 06:10	
Heavy Oil Range Hydrocarbons	"	3.33	----	0.476	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			92.6%		50 - 150 %	"				"
PQH1357-05 (MW-17)		Water			Sampled: 08/30/07 10:22					
Diesel Range Organics	NWTPH-Dx	ND	---	0.236	mg/l	1x	7090422	09/12/07 12:00	09/15/07 06:44	
Heavy Oil Range Hydrocarbons	"	ND	---	0.472	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			99.3%		50 - 150 %	"				"
PQH1357-06 (RW-4)		Water			Sampled: 08/30/07 15:38					
Diesel Range Organics	NWTPH-Dx	16.4	---	0.245	mg/l	1x	7090422	09/12/07 12:00	09/15/07 11:21	Q12
Heavy Oil Range Hydrocarbons	"	2.09	---	0.490	"	"	"	"	"	Q7
<i>Surrogate(s): 1-Chlorooctadecane</i>			88.4%		50 - 150 %	"				"
PQH1357-08 (EX-2)		Water			Sampled: 08/31/07 08:26					
Diesel Range Organics	NWTPH-Dx	11.6	----	0.238	mg/l	1x	7090508	09/13/07 15:30	09/14/07 22:13	Q9
Heavy Oil Range Hydrocarbons	"	1.27	---	0.476	"	"	"	"	"	Q7
<i>Surrogate(s): 1-Chlorooctadecane</i>			133%		50 - 150 %	"				"

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



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 Project Manager: Steve Hammer

Report Created:
 10/03/07 15:51

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-09 (MW-11)		Water			Sampled: 08/31/07 09:03					
Diesel Range Organics	NWTPH-Dx	0.402	---	0.238	mg/l	1x	7090508	09/13/07 15:30	09/14/07 22:47	Q12
Heavy Oil Range Hydrocarbons	"	ND	----	0.476	"	"	"	"	"	"
Surrogate(s): 1-Chlorooctadecane			98.0%		50 - 150 %	"				"
PQH1357-10 (MW-16)		Water			Sampled: 08/31/07 09:37					
Diesel Range Organics	NWTPH-Dx	12.7	---	0.238	mg/l	1x	7090508	09/13/07 15:30	09/14/07 23:21	Q12
Heavy Oil Range Hydrocarbons	"	2.80	---	0.476	"	"	"	"	"	Q7
Surrogate(s): 1-Chlorooctadecane			91.2%		50 - 150 %	"				"
PQH1357-11 (MW-12)		Water			Sampled: 08/31/07 10:05					
Diesel Range Organics	NWTPH-Dx	ND	---	0.238	mg/l	1x	7090508	09/13/07 15:30	09/14/07 23:55	
Heavy Oil Range Hydrocarbons	"	ND	---	0.476	"	"	"	"	"	
Surrogate(s): 1-Chlorooctadecane			97.0%		50 - 150 %	"				"
PQH1357-12 (MW-19)		Water			Sampled: 08/31/07 08:07					
Diesel Range Organics	NWTPH-Dx	30.7	---	0.238	mg/l	1x	7090508	09/13/07 15:30	09/15/07 00:29	Q9
Heavy Oil Range Hydrocarbons	"	4.68	---	0.476	"	"	"	"	"	Q7
Surrogate(s): 1-Chlorooctadecane			87.7%		50 - 150 %	"				"

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



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Project Number: 008.205.00007
Project Manager: Steve Hammer

Report Created:
10/03/07 15:51

Semivolatile Organic Compounds per EPA Method 8270C
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-02 (MW-2)										
		Water								
										Sampled: 08/30/07 13:50
Acenaphthene	EPA 8270C	ND	----	4.76	ug/l	1x	7090096	09/05/07 12:40	09/08/07 18:40	
Acenaphthylene	"	ND	----	4.76	"	"	"	"	"	
Anthracene	"	ND	----	19.0	"	4x	"	"	09/19/07 21:17	RL1
Benzo (a) anthracene	"	ND	----	19.0	"	"	"	"	"	RL1
Benzo (a) pyrene	"	ND	----	19.0	"	"	"	"	"	RL1
Benzo (b) fluoranthene	"	ND	----	19.0	"	"	"	"	"	RL1
Benzo (ghi) perylene	"	ND	----	19.0	"	"	"	"	"	RL1
Benzo (k) fluoranthene	"	ND	----	19.0	"	"	"	"	"	RL1
Benzoic Acid	"	ND	----	47.6	"	1x	"	"	09/08/07 18:40	
Benzyl alcohol	"	ND	----	9.52	"	"	"	"	"	
4-Bromophenyl phenyl ether	"	ND	----	19.0	"	4x	"	"	09/19/07 21:17	RL1
Butyl benzyl phthalate	"	ND	----	19.0	"	"	"	"	"	RL1
4-Chloro-3-methylphenol	"	ND	----	4.76	"	1x	"	"	09/08/07 18:40	
4-Chloroaniline	"	ND	----	19.0	"	"	"	"	"	
Bis(2-chloroethoxy)methane	"	ND	----	9.52	"	"	"	"	"	
Bis(2-chloroethyl)ether	"	ND	----	4.76	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	"	ND	----	9.52	"	"	"	"	"	
2-Chloronaphthalene	"	ND	----	4.76	"	"	"	"	"	
2-Chlorophenol	"	ND	----	4.76	"	"	"	"	"	
4-Chlorophenyl phenyl ether	"	ND	----	4.76	"	"	"	"	"	
Chrysene	"	ND	----	19.0	"	4x	"	"	09/19/07 21:17	RL1
Di-n-butyl phthalate	"	ND	----	19.0	"	"	"	"	"	RL1
Di-n-octyl phthalate	"	ND	----	19.0	"	"	"	"	"	RL1
Dibenzo (a,h) anthracene	"	ND	----	19.0	"	"	"	"	"	RL1
Dibenzofuran	"	ND	----	4.76	"	1x	"	"	09/08/07 18:40	
1,2-Dichlorobenzene	"	ND	----	4.76	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	4.76	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	4.76	"	"	"	"	"	
3,3'-Dichlorobenzidine	"	ND	----	19.0	"	4x	"	"	09/19/07 21:17	RL1
2,4-Dichlorophenol	"	ND	----	4.76	"	1x	"	"	09/08/07 18:40	
Diethyl phthalate	"	ND	----	4.76	"	"	"	"	"	
2,4-Dimethylphenol	"	ND	----	9.52	"	"	"	"	"	
Dimethyl phthalate	"	ND	----	4.76	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	"	ND	----	9.52	"	"	"	"	"	
2,4-Dinitrophenol	"	ND	----	23.8	"	"	"	"	"	
2,4-Dinitrotoluene	"	ND	----	4.76	"	"	"	"	"	
2,6-Dinitrotoluene	"	ND	----	4.76	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	"	ND	----	38.1	"	4x	"	"	09/19/07 21:17	RL1
Fluoranthene	"	ND	----	19.0	"	"	"	"	"	RL1
Fluorene	"	5.10	----	4.76	"	1x	"	"	09/08/07 18:40	
Hexachlorobenzene	"	ND	----	19.0	"	4x	"	"	09/19/07 21:17	RL1
Hexachlorobutadiene	"	ND	----	9.52	"	1x	"	"	09/08/07 18:40	
Hexachlorocyclopentadiene	"	ND	----	9.52	"	"	"	"	"	

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland

1800 Blankenship Road Suite 440
 West Linn, OR 97068

Project Name: **Crowley**
 Project Number: 008.205.00007
 Project Manager: Steve Hammer

Report Created:
 10/03/07 15:51

Semivolatile Organic Compounds per EPA Method 8270C
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-02 (MW-2)		Water		Sampled: 08/30/07 13:50						
Hexachloroethane	EPA 8270C	ND	----	9.52	ug/l	1x	7090096	09/05/07 12:40	09/08/07 18:40	
Indeno (1,2,3-cd) pyrene	"	ND	----	19.0	"	4x	"	"	09/19/07 21:17	RL1
Isophorone	"	ND	----	4.76	"	1x	"	"	09/08/07 18:40	
2-Methylnaphthalene	"	ND	----	4.76	"	"	"	"	"	
2-Methylphenol	"	ND	----	9.52	"	"	"	"	"	
3-,4-Methylphenol	"	ND	----	4.76	"	"	"	"	"	
Naphthalene	"	ND	----	4.76	"	"	"	"	"	
2-Nitroaniline	"	ND	----	4.76	"	"	"	"	"	
3-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
4-Nitroaniline	"	ND	----	9.52	"	"	"	"	"	
Nitrobenzene	"	ND	----	4.76	"	"	"	"	"	
2-Nitrophenol	"	ND	----	4.76	"	"	"	"	"	
4-Nitrophenol	"	ND	----	23.8	"	"	"	"	"	
N-Nitrosodi-n-propylamine	"	ND	----	9.52	"	"	"	"	"	
N-Nitrosodiphenylamine	"	ND	----	19.0	"	4x	"	"	09/19/07 21:17	RL1
Pentachlorophenol	"	ND	----	38.1	"	"	"	"	"	RL1
Phenanthrene	"	ND	----	19.0	"	"	"	"	"	RL1
Phenol	"	ND	----	4.76	"	1x	"	"	09/08/07 18:40	
Pyrene	"	ND	----	19.0	"	4x	"	"	09/19/07 21:17	RL1
1,2,4-Trichlorobenzene	"	ND	----	4.76	"	1x	"	"	09/08/07 18:40	
2,4,5-Trichlorophenol	"	ND	----	4.76	"	"	"	"	"	
2,4,6-Trichlorophenol	"	ND	----	4.76	"	"	"	"	"	
<i>Surrogate(s):</i>										
	2-Fluorobiphenyl		97.9%		22 - 120 %	"			"	
	2-Fluorophenol		64.7%		5 - 120 %	"			"	
	Nitrobenzene-d5		91.2%		26 - 127 %	"			"	
	Phenol-d6		78.5%		4 - 121 %	"			"	
	p-Terphenyl-d14		92.6%		37 - 130 %	4x			09/19/07 21:17	
	2,4,6-Tribromophenol		95.7%		21 - 129 %	"			"	

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Polynuclear Aromatic Compounds per EPA 8270M-SIM
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-01 (MW-1)		Water				Sampled: 08/30/07 11:33				
1-Methylnaphthalene	EPA 8270m	ND	---	0.0943	ug/l	1x	7090171	09/06/07 13:00	09/18/07 18:11	
2-Methylnaphthalene	"	ND	---	0.0943	"	"	"	"	"	
Acenaphthene	"	ND	---	0.189	"	"	"	"	"	RL1
Acenaphthylene	"	ND	---	0.0943	"	"	"	"	"	
Anthracene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (a) anthracene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (a) pyrene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	---	0.0943	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	---	0.0943	"	"	"	"	"	
Chrysene	"	ND	---	0.0943	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	---	0.189	"	"	"	"	"	
Fluoranthene	"	ND	---	0.0943	"	"	"	"	"	
Fluorene	"	ND	---	0.0943	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0943	"	"	"	"	"	
Naphthalene	"	ND	---	0.0943	"	"	"	"	"	
Phenanthrene	"	ND	---	0.0943	"	"	"	"	"	
Pyrene	"	ND	---	0.0943	"	"	"	"	"	
Surrogate(s): Fluorene-d10			84.9%		25 - 125 %	"				
Pyrene-d10			69.9%		23 - 150 %	"				
Benzo (a) pyrene-d12			72.8%		10 - 125 %	"				

PQH1357-02 (MW-2)		Water				Sampled: 08/30/07 13:50					RL3
1-Methylnaphthalene	EPA 8270m	19.9	---	0.472	ug/l	5x	7090171	09/06/07 13:00	09/18/07 18:48		
2-Methylnaphthalene	"	ND	---	0.472	"	"	"	"	"		
Acenaphthene	"	1.06	---	0.472	"	"	"	"	"		
Acenaphthylene	"	ND	---	0.472	"	"	"	"	"		
Anthracene	"	ND	---	0.472	"	"	"	"	"		
Benzo (a) anthracene	"	ND	---	0.472	"	"	"	"	"		
Benzo (a) pyrene	"	ND	---	0.472	"	"	"	"	"		
Benzo (b) fluoranthene	"	ND	---	0.472	"	"	"	"	"		
Benzo (ghi) perylene	"	ND	---	0.472	"	"	"	"	"		
Benzo (k) fluoranthene	"	ND	---	0.472	"	"	"	"	"		
Chrysene	"	ND	---	0.472	"	"	"	"	"		
Dibenzo (a,h) anthracene	"	ND	---	0.943	"	"	"	"	"		
Fluoranthene	"	ND	---	0.472	"	"	"	"	"		
Fluorene	"	2.43	---	0.472	"	"	"	"	"		
Indeno (1,2,3-cd) pyrene	"	ND	---	0.472	"	"	"	"	"		
Naphthalene	"	ND	---	0.472	"	"	"	"	"		
Phenanthrene	"	0.904	---	0.472	"	"	"	"	"		
Pyrene	"	ND	---	0.472	"	"	"	"	"		

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Polynuclear Aromatic Compounds per EPA 8270M-SIM
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-02 (MW-2)		Water				Sampled: 08/30/07 13:50				RL3
Surrogate(s): Fluorene-d10		78.4%			25 - 125 %	5x			09/18/07 18:48	
Pyrene-d10		83.5%			23 - 150 %	"			"	
Benzo (a) pyrene-d12		75.8%			10 - 125 %	"			"	
PQH1357-10 (MW-16)		Water				Sampled: 08/31/07 09:37				RL3
1-Methylnaphthalene	EPA 8270m	1.07	----	0.476	ug/l	5x	7090171	09/06/07 13:00	09/18/07 19:24	
2-Methylnaphthalene	"	ND	----	0.476	"	"	"	"	"	
Acenaphthene	"	1.33	----	0.476	"	"	"	"	"	
Acenaphthylene	"	ND	----	0.476	"	"	"	"	"	
Anthracene	"	ND	----	0.476	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.476	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.476	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.476	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.476	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.476	"	"	"	"	"	
Chrysene	"	ND	----	0.476	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.952	"	"	"	"	"	
Fluoranthene	"	1.35	----	0.476	"	"	"	"	"	
Fluorene	"	2.22	----	0.476	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.476	"	"	"	"	"	
Naphthalene	"	ND	----	0.476	"	"	"	"	"	
Phenanthrene	"	ND	----	0.476	"	"	"	"	"	
Pyrene	"	0.977	----	0.476	"	"	"	"	"	
Surrogate(s): Fluorene-d10		79.3%			25 - 125 %	"			"	
Pyrene-d10		76.9%			23 - 150 %	"			"	
Benzo (a) pyrene-d12		72.2%			10 - 125 %	"			"	

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-01 (MW-1)		Water					Sampled: 08/30/07 11:33			
Acetone	EPA 8260B	ND	----	20.0	ug/l	1x	7111075	09/10/07 20:06	09/11/07 07:02	
Benzene	"	ND	----	1.00	"	"	"	"	"	
Bromobenzene	"	ND	----	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	----	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	----	1.00	"	"	"	"	"	
Bromoform	"	ND	----	1.00	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
2-Butanone	"	ND	----	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	----	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.00	"	"	"	"	"	
Chloroethane	"	1.17	----	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	1.00	"	"	"	"	"	
Chloromethane	"	ND	----	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	1.00	"	"	"	"	"	
Dibromomethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	2.00	"	"	"	"	"	
n-Hexane	"	ND	----	2.00	"	"	"	"	"	

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland

1800 Blankenship Road Suite 440
West Linn, OR 97068

Project Name: **Crowley**
Project Number: 008.205.00007
Project Manager: Steve Hammer

Report Created:
10/03/07 15:51

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-01 (MW-1)		Water		Sampled: 08/30/07 11:33						
2-Hexanone	EPA 8260B	ND	----	10.0	ug/l	1x	7111075	09/10/07 20:06	09/11/07 07:02	
Isopropylbenzene	"	ND	----	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	10.0	"	"	"	"	"	C
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Total Xylenes	"	ND	----	3.00	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4
Toluene-d8
4-BFB

11.4% 70 - 130 %
90.5% 75 - 125 %
94.0% 75 - 125 %

PQH1357-02 (MW-2)

Water

Sampled: 08/30/07 13:50

Acetone	EPA 8260B	ND	----	20.0	ug/l	1x	7111075	09/10/07 20:06	09/11/07 07:28	
Benzene	"	ND	----	1.00	"	"	"	"	"	
Bromobenzene	"	ND	----	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	----	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	----	1.00	"	"	"	"	"	
Bromoform	"	ND	----	1.00	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
2-Butanone	"	ND	----	10.0	"	"	"	"	"	
n-Butylbenzene	"	1.04	----	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	----	1.00	"	"	"	"	"	

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name: Crowley Project Number: 008.205.00007 Project Manager: Steve Hammer	Report Created: 10/03/07 15:51
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-02 (MW-2)		Water					Sampled: 08/30/07 13:50			
Carbon tetrachloride	EPA 8260B	ND	---	1.00	ug/l	1x	7111075	09/10/07 20:06	09/11/07 07:28	
Chlorobenzene	"	ND	---	1.00	"	"	"	"	"	
Chloroethane	"	1.59	---	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	1.00	"	"	"	"	"	
Chloromethane	"	ND	---	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	"	"	"	
Dibromomethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	---	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	2.00	"	"	"	"	"	
n-Hexane	"	ND	---	2.00	"	"	"	"	"	
2-Hexanone	"	ND	---	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	---	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	10.0	"	"	"	"	"	
Methylene chloride	"	ND	---	5.00	"	"	"	"	"	C
Naphthalene	"	ND	---	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	---	1.00	"	"	"	"	"	
Styrene	"	ND	---	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"	

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland

1800 Blankenship Road Suite 440
 West Linn, OR 97068

Project Name: **Crowley**
 Project Number: 008.205.00007
 Project Manager: Steve Hammer

Report Created:
 10/03/07 15:51

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-02 (MW-2)		Water				Sampled: 08/30/07 13:50				
Tetrachloroethene	EPA 8260B	ND	----	1.00	ug/l	1x	7111075	09/10/07 20:06	09/11/07 07:28	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Total Xylenes	"	ND	----	3.00	"	"	"	"	"	
<i>Surrogate(s):</i>										
	<i>1,2-DCA-d4</i>		<i>113%</i>		<i>70 - 130 %</i>	"				"
	<i>Toluene-d8</i>		<i>89.5%</i>		<i>75 - 125 %</i>	"				"
	<i>+BFB</i>		<i>96.4%</i>		<i>75 - 125 %</i>	"				"

PQH1357-03 (MW-3)		Water				Sampled: 08/30/07 11:01				
Acetone	EPA 8260B	24.3	---	20.0	ug/l	1x	7110023	09/11/07 21:06	09/12/07 12:54	
Benzene	"	ND	----	1.00	"	"	"	"	"	
Bromobenzene	"	ND	----	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	----	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	----	1.00	"	"	"	"	"	
Bromoform	"	ND	----	1.00	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
2-Butanone	"	ND	----	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	----	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.00	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	1.00	"	"	"	"	"	
Chloromethane	"	ND	----	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	1.00	"	"	"	"	"	
Dibromomethane	"	ND	----	1.00	"	"	"	"	"	

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Volatile Organic Compounds by EPA Method 8260B
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-03 (MW-3)		Water					Sampled: 08/30/07 11:01			
1,2-Dichlorobenzene	EPA 8260B	ND	----	1.00	ug/l	1x	7110023	09/11/07 21:06	09/12/07 12:54	
1,3-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	2.00	"	"	"	"	"	
n-Hexane	"	ND	----	2.00	"	"	"	"	"	
2-Hexanone	"	ND	----	10.0	"	"	"	"	"	C
Isopropylbenzene	"	ND	----	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	10.0	"	"	"	"	"	C
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	5.00	"	"	"	"	"	
n-Propylbenzene	"	ND	----	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name: Crowley Project Number: 008.205.00007 Project Manager: Steve Hammer	Report Created: 10/03/07 15:51
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Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-03 (MW-3)		Water				Sampled: 08/30/07 11:01				
Total Xylenes	EPA 8260B	ND	----	3.00	ug/l	1x	7110023	09/11/07 21:06	09/12/07 12:54	
Surrogate(s):										
1,2-DCA-d4			111%		70 - 130 %	"				"
Toluene-d8			97.1%		75 - 125 %	"				"
4-BFB			98.2%		75 - 125 %	"				"
PQH1357-08 (EX-2)		Water				Sampled: 08/31/07 08:26				
Acetone	EPA 8260B	ND	---	20.0	ug/l	1x	7111075	09/10/07 20:06	09/11/07 07:54	
Benzene	"	ND	---	1.00	"	"	"	"	"	
Bromobenzene	"	ND	---	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	---	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	---	1.00	"	"	"	"	"	
Bromoform	"	ND	---	1.00	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	10.0	"	"	"	"	"	
n-Butylbenzene	"	1.22	---	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	---	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	---	1.00	"	"	"	"	"	
Chloroethane	"	1.62	---	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	1.00	"	"	"	"	"	
Chloromethane	"	ND	---	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	"	"	"	
Dibromomethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-08 (EX-2)		Water							Sampled: 08/31/07 08:26	
1,1-Dichloropropene	EPA 8260B	ND	---	1.00	ug/l	1x	7111075	09/10/07 20:06	09/11/07 07:54	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	---	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	2.00	"	"	"	"	"	
n-Hexane	"	ND	---	2.00	"	"	"	"	"	
2-Hexanone	"	ND	---	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	---	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	10.0	"	"	"	"	"	C
Methylene chloride	"	ND	---	5.00	"	"	"	"	"	
Naphthalene	"	ND	---	5.00	"	"	"	"	"	
n-Propylbenzene	"	1.03	---	1.00	"	"	"	"	"	
Styrene	"	ND	---	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	---	1.00	"	"	"	"	"	
Toluene	"	ND	---	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	"	"	"	
Trichloroethene	"	ND	---	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	---	1.00	"	"	"	"	"	
o-Xylene	"	ND	---	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	---	2.00	"	"	"	"	"	
Total Xylenes	"	ND	---	3.00	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		114%		70 - 130 %	"				"
	Toluene-d8		88.8%		75 - 125 %	"				"
	4-BFB		95.7%		75 - 125 %	"				"

Sarah Rockwell



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-10 (MW-16)		Water								
		Sampled: 08/31/07 09:37								
Acetone	EPA 8260B	26.0	---	20.0	ug/l	1x	7111075	09/10/07 20:06	09/11/07 08:26	
Benzene	"	ND	---	1.00	"	"	"	"	"	
Bromobenzene	"	ND	---	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	---	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	---	1.00	"	"	"	"	"	
Bromoform	"	ND	---	1.00	"	"	"	"	"	
Bromomethane	"	ND	---	2.00	"	"	"	"	"	
2-Butanone	"	ND	---	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	---	1.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	---	1.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	---	1.00	"	"	"	"	"	
Chloroethane	"	1.14	---	1.00	"	"	"	"	"	
1-Chlorohexane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	1.00	"	"	"	"	"	
Chloromethane	"	ND	---	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	"	"	"	
Dibromomethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	---	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	2.00	"	"	"	"	"	
n-Hexane	"	ND	---	2.00	"	"	"	"	"	

TestAmerica - Portland, OR

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Sarah Rockwell
 Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name: Crowley Project Number: 008.205.00007 Project Manager: Steve Hammer	Report Created: 10/03/07 15:51
-------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-10 (MW-16)		Water			Sampled: 08/31/07 09:37					
2-Hexanone	EPA 8260B	ND	----	10.0	ug/l	1x	7111075	09/10/07 20:06	09/11/07 08:26	
Isopropylbenzene	"	1.82	----	1.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	1.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	10.0	"	"	"	"	"	C
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	5.00	"	"	"	"	"	
n-Propylbenzene	"	2.08	----	1.00	"	"	"	"	"	
Styrene	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	5.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	5.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.00	"	"	"	"	"	
Toluene	"	ND	----	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.00	"	"	"	"	"	
Trichloroethene	"	ND	----	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Total Xylenes	"	ND	----	3.00	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	115%	70 - 130 %	"	"
	Toluene-d8	96.1%	75 - 125 %	"	"
	4-BFB	96.2%	75 - 125 %	"	"

TestAmerica - Portland, OR

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name: Crowley Project Number: 008.205.00007 Project Manager: Steve Hammer	Report Created: 10/03/07 15:51
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Oxygenates by EPA Method 8260B
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-01 (MW-1)		Water				Sampled: 08/30/07 11:33				
tert-Amyl Methyl Ether	EPA 8260B	ND	---	1.00	ug/l	1x	7112067	09/12/07 17:30	09/12/07 18:52	
tert-Butyl Alcohol	"	ND	---	50.0	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.500	"	"	"	"	"	
1,2-Dichloroethane (EDC)	"	ND	---	0.500	"	"	"	"	"	
Diisopropyl ether	"	ND	---	1.00	"	"	"	"	"	
Ethyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
Ethanol	"	ND	---	250	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	5.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				100%		70 - 130 %	"			"
<i>Toluene-d8</i>				101%		75 - 125 %	"			"
<i>4-BFB</i>				99.3%		75 - 125 %	"			"
PQH1357-03 (MW-3)		Water				Sampled: 08/30/07 11:01				
tert-Amyl Methyl Ether	EPA 8260B	ND	---	1.00	ug/l	1x	7112067	09/12/07 17:30	09/12/07 19:37	
tert-Butyl Alcohol	"	ND	---	50.0	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.500	"	"	"	"	"	
1,2-Dichloroethane (EDC)	"	ND	---	0.500	"	"	"	"	"	
Diisopropyl ether	"	ND	---	1.00	"	"	"	"	"	
Ethyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
Ethanol	"	ND	---	250	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	5.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				102%		70 - 130 %	"			"
<i>Toluene-d8</i>				101%		75 - 125 %	"			"
<i>4-BFB</i>				97.6%		75 - 125 %	"			"
PQH1357-08 (EX-2)		Water				Sampled: 08/31/07 08:26				
tert-Amyl Methyl Ether	EPA 8260B	ND	---	1.00	ug/l	1x	7112067	09/12/07 17:30	09/12/07 20:08	
tert-Butyl Alcohol	"	ND	---	50.0	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.500	"	"	"	"	"	
1,2-Dichloroethane (EDC)	"	ND	---	0.500	"	"	"	"	"	
Diisopropyl ether	"	ND	---	1.00	"	"	"	"	"	
Ethyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
Ethanol	"	ND	---	250	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	5.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				101%		70 - 130 %	"			"
<i>Toluene-d8</i>				101%		75 - 125 %	"			"
<i>4-BFB</i>				95.2%		75 - 125 %	"			"

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Oxygenates by EPA Method 8260B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQH1357-10 (MW-16)		Water					Sampled: 08/31/07 09:37			
tert-Amyl Methyl Ether	EPA 8260B	ND	----	1.00	ug/l	1x	7112067	09/12/07 17:30	09/12/07 20:38	
tert-Butyl Alcohol	"	ND	----	50.0	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	0.500	"	"	"	"	"	
1,2-Dichloroethane (EDC)	"	ND	----	0.500	"	"	"	"	"	
Diisopropyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
Ethanol	"	ND	----	250	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	5.00	"	"	"	"	"	
<i>Surrogate(s):</i>										
	<i>1,2-DCA-d4</i>			<i>94.4%</i>				<i>70 - 130 %</i>		
	<i>Toluene-d8</i>			<i>101%</i>				<i>75 - 125 %</i>		
	<i>+BFB</i>			<i>95.0%</i>				<i>75 - 125 %</i>		

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name: Crowley Project Number: 008.205.00007 Project Manager: Steve Hammer	Report Created: 10/03/07 15:51
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Gasoline Hydrocarbons per NW TPH-Gx Method - Laboratory Quality Control Results
TestAmerica - Portland, OR

QC Batch: 7090335 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7090335-BLK1)													Extracted: 09/10/07 12:57	
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	---	80.0	ug/l	1x	--	--	--	--	--	--	09/10/07 14:58	
Surrogate(s): 4-BFB		Recovery: 90.5%		Limits: 50-150%		"						09/10/07 14:58		
LCS (7090335-BS1)													Extracted: 09/10/07 12:57	
Gasoline Range Hydrocarbons	NW TPH-Gx	455	---	80.0	ug/l	1x	--	500	90.9%	(70-130)	--	--	09/10/07 14:04	
Surrogate(s): 4-BFB		Recovery: 99.2%		Limits: 50-150%		"						09/10/07 14:04		
LCS Dup (7090335-BSD1)													Extracted: 09/10/07 12:57	
Gasoline Range Hydrocarbons	NW TPH-Gx	495	---	80.0	ug/l	1x	--	500	99.1%	(70-130)	8.58%	(35)	09/10/07 14:31	
Surrogate(s): 4-BFB		Recovery: 101%		Limits: 50-150%		"						09/10/07 14:31		
Duplicate (7090335-DUP1)													QC Source: PQH1348-12RE1 Extracted: 09/10/07 12:57	
Gasoline Range Hydrocarbons	NW TPH-Gx	5230	---	400	ug/l	5x	4960	--	--	--	5.45%	(35)	09/10/07 16:11	
Surrogate(s): 4-BFB		Recovery: 133%		Limits: 50-150%		1x						09/10/07 16:11		
Duplicate (7090335-DUP2)													QC Source: PQH1298-01RE2 Extracted: 09/10/07 12:57	
Gasoline Range Hydrocarbons	NW TPH-Gx	3880	---	400	ug/l	5x	4170	--	--	--	7.01%	(35)	09/10/07 17:06	ZX
Surrogate(s): 4-BFB		Recovery: 153%		Limits: 50-150%		1x						09/10/07 17:06		

QC Batch: 7090520 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7090520-BLK1)													Extracted: 09/13/07 13:35	
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	---	80.0	ug/l	1x	--	--	--	--	--	--	09/14/07 17:12	
Surrogate(s): 4-BFB		Recovery: 89.9%		Limits: 50-150%		"						09/14/07 17:12		
LCS (7090520-BS2)													Extracted: 09/13/07 13:35	
Gasoline Range Hydrocarbons	NW TPH-Gx	449	---	80.0	ug/l	1x	--	500	89.8%	(70-130)	--	--	09/14/07 16:08	
Surrogate(s): 4-BFB		Recovery: 111%		Limits: 50-150%		"						09/14/07 16:08		
LCS Dup (7090520-BSD2)													Extracted: 09/13/07 13:35	
Gasoline Range Hydrocarbons	NW TPH-Gx	438	---	80.0	ug/l	1x	--	500	87.6%	(70-130)	2.44%	(35)	09/14/07 16:40	
Surrogate(s): 4-BFB		Recovery: 111%		Limits: 50-150%		"						09/14/07 16:40		
Duplicate (7090520-DUP1)													QC Source: PQI0137-04 Extracted: 09/13/07 13:35	
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	---	80.0	ug/l	1x	ND	--	--	--	NR	(35)	09/14/07 21:11	
Surrogate(s): 4-BFB		Recovery: 8.36%		Limits: 50-150%		"						09/14/07 21:11		Z6

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland

1800 Blankenship Road Suite 440
West Linn, OR 97068

Project Name: **Crowley**
Project Number: 008.205.00007
Project Manager: Steve Hammer

Report Created:
10/03/07 15:51

Gasoline Hydrocarbons per NW TPH-Gx Method - Laboratory Quality Control Results

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name: Crowley Project Number: 008.205.00007 Project Manager: Steve Hammer	Report Created: 10/03/07 15:51
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Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7090422 Water Preparation Method: EPA 3510 Fuels

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7090422-BLK1)													Extracted: 09/12/07 12:00	
Diesel Range Organics	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	09/13/07 12:06	
Heavy Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 99.6%</i>		<i>Limits: 50-150%</i>		"						09/13/07 12:06		
LCS (7090422-BS1)													Extracted: 09/12/07 12:00	
Diesel Range Organics	NWTPH-Dx	2.60	---	0.250	mg/l	1x	--	2.54	102%	(50-150)	--	--	09/13/07 12:33	
Heavy Oil Range Hydrocarbons	"	1.69	---	0.500	"	"	--	1.55	109%	"	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 106%</i>		<i>Limits: 50-150%</i>		"						09/13/07 12:33		
LCS Dup (7090422-BSD1)													Extracted: 09/12/07 12:00	
Diesel Range Organics	NWTPH-Dx	2.74	---	0.250	mg/l	1x	--	2.54	108%	(50-150)	5.56% (50)		09/13/07 16:54	
Heavy Oil Range Hydrocarbons	"	1.86	---	0.500	"	"	--	1.55	120%	"	9.50%	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 100%</i>		<i>Limits: 50-150%</i>		"						09/13/07 16:54		

QC Batch: 7090508 Water Preparation Method: EPA 3510 Fuels

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7090508-BLK1)													Extracted: 09/13/07 15:30	
Diesel Range Organics	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	09/14/07 21:05	
Heavy Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 94.4%</i>		<i>Limits: 50-150%</i>		"						09/14/07 21:05		
LCS (7090508-BS1)													Extracted: 09/13/07 15:30	
Diesel Range Organics	NWTPH-Dx	2.54	---	0.250	mg/l	1x	--	2.54	100%	(50-150)	--	--	09/14/07 20:31	
Heavy Oil Range Hydrocarbons	"	1.60	---	0.500	"	"	--	1.55	103%	"	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 98.5%</i>		<i>Limits: 50-150%</i>		"						09/14/07 20:31		
LCS Dup (7090508-BSD1)													Extracted: 09/13/07 15:30	
Diesel Range Organics	NWTPH-Dx	2.31	---	0.250	mg/l	1x	--	2.54	91.1%	(50-150)	9.47% (50)		09/14/07 19:57	
Heavy Oil Range Hydrocarbons	"	1.50	---	0.500	"	"	--	1.55	97.1%	"	6.30%	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 89.6%</i>		<i>Limits: 50-150%</i>		"						09/14/07 19:57		

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7090096 Water Preparation Method: 3520B Liq-Liq

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7090096-BLK1)													Extracted: 09/05/07 12:40	
Acenaphthene	EPA 8270C	ND	---	5.00	ug/l	1x	--	--	--	--	--	--	09/12/07 00:41	
Acenaphthylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Benzoic Acid	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Benzyl alcohol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Bromophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Butyl benzyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chloro-3-methylphenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chloroaniline	"	ND	---	20.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethoxy)methane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Bis(2-chloroethyl)ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-chloroisopropyl)ether	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chloronaphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorophenyl phenyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-butyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Di-n-octyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibenzofuran	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
3,3'-Dichlorobenzidine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Diethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4-Dimethylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Dimethyl phthalate	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4,6-Dinitro-2-methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
2,4-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,6-Dinitrotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bis(2-ethylhexyl)phthalate	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results
TestAmerica - Portland, OR

QC Batch: 7090096 Water Preparation Method: 3520B Liq-Liq

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7090096-BLK1)													Extracted: 09/05/07 12:40	
Fluorene	EPA 8270C	ND	---	5.00	ug/l	1x	--	--	--	--	--	--	09/12/07 00:41	
Hexachlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachlorocyclopentadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Isophorone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Methylphenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
3-,4-Methylphenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Nitroaniline	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
3-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
4-Nitroaniline	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Nitrobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Nitrophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Nitrophenol	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodi-n-propylamine	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
N-Nitrosodiphenylamine	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pentachlorophenol	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Phenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4,5-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,4,6-Trichlorophenol	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	

Surrogate(s)	Recovery:	Limits:	09/12/07 00:41
2-Fluorobiphenyl	89.7%	22-120%	"
2-Fluorophenol	76.4%	5-120%	"
Nitrobenzene-d5	89.4%	26-127%	"
Phenol-d6	87.3%	4-121%	"
p-Terphenyl-d14	96.5%	37-130%	"
2,4,6-Tribromophenol	89.0%	21-129%	"

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name: Crowley Project Number: 008.205.00007 Project Manager: Steve Hammer	Report Created: 10/03/07 15:51
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Semivolatile Organic Compounds per EPA Method 8270C - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7090096 Water Preparation Method: 3520B Liq-Liq

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (7090096-BS1)

Extracted: 09/05/07 12:40

Acenaphthene	EPA 8270C	45.3	---	5.00	ug/l	1x	--	50.0	90.6%	(56-120)	--	--	09/12/07 01:24	
4-Chloro-3-methylphenol	"	51.2	---	5.00	"	"	--	"	102%	(37-131)	--	--	"	
2-Chlorophenol	"	50.2	---	5.00	"	"	--	"	100%	(31-130)	--	--	"	
1,4-Dichlorobenzene	"	38.0	---	5.00	"	"	--	"	75.9%	(8-124)	--	--	"	
2,4-Dinitrotoluene	"	46.5	---	5.00	"	"	--	"	93.0%	(50-127)	--	--	"	
4-Nitrophenol	"	43.1	---	25.0	"	"	--	"	86.1%	(1-157)	--	--	"	
N-Nitrosodi-n-propylamine	"	50.2	---	10.0	"	"	--	"	100%	(44-129)	--	--	"	
Pentachlorophenol	"	50.7	---	10.0	"	"	--	"	101%	(23-149)	--	--	"	
Phenol	"	46.9	---	5.00	"	"	--	"	93.9%	(1-145)	--	--	"	
Pyrene	"	43.5	---	5.00	"	"	--	"	87.0%	(56-125)	--	--	"	
1,2,4-Trichlorobenzene	"	39.8	---	5.00	"	"	--	"	79.7%	(33-116)	--	--	"	

Surrogate(s)	Recovery	Limits	Analyzed
2-Fluorobiphenyl	81.2%	22-120%	09/12/07 01:24
2-Fluorophenol	77.5%	5-120%	"
Nitrobenzene-d5	87.9%	26-127%	"
Phenol-d6	89.1%	4-121%	"
p-Terphenyl-d14	88.2%	37-130%	"
2,4,6-Tribromophenol	97.1%	21-129%	"

LCS Dup (7090096-BS1)

Extracted: 09/05/07 12:40

Acenaphthene	EPA 8270C	48.7	---	5.00	ug/l	1x	--	50.0	97.4%	(56-120)	7.28% (50)	09/12/07 02:07	
4-Chloro-3-methylphenol	"	48.2	---	5.00	"	"	--	"	96.5%	(37-131)	5.97%	"	
2-Chlorophenol	"	50.3	---	5.00	"	"	--	"	101%	(31-130)	0.299%	"	
1,4-Dichlorobenzene	"	38.7	---	5.00	"	"	--	"	77.3%	(8-124)	1.88%	"	
2,4-Dinitrotoluene	"	50.6	---	5.00	"	"	--	"	101%	(50-127)	8.55%	"	
4-Nitrophenol	"	44.9	---	25.0	"	"	--	"	89.7%	(1-157)	4.09%	"	
N-Nitrosodi-n-propylamine	"	50.1	---	10.0	"	"	--	"	100%	(44-129)	0.179%	"	
Pentachlorophenol	"	52.5	---	10.0	"	"	--	"	105%	(23-149)	3.55%	"	
Phenol	"	48.3	---	5.00	"	"	--	"	96.6%	(1-145)	2.86%	"	
Pyrene	"	46.8	---	5.00	"	"	--	"	93.6%	(56-125)	7.38%	"	
1,2,4-Trichlorobenzene	"	41.9	---	5.00	"	"	--	"	83.8%	(33-116)	4.99%	"	

Surrogate(s)	Recovery	Limits	Analyzed
2-Fluorobiphenyl	84.5%	22-120%	09/12/07 02:07
2-Fluorophenol	80.8%	5-120%	"
Nitrobenzene-d5	90.7%	26-127%	"
Phenol-d6	86.6%	4-121%	"
p-Terphenyl-d14	89.2%	37-130%	"
2,4,6-Tribromophenol	101%	21-129%	"

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7090171 Water Preparation Method: 3520B Liq-Liq

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (7090171-BLK1)

Extracted: 09/06/07 13:00

1-Methylnaphthalene	EPA 8270m	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	09/14/07 17:51	
2-Methylnaphthalene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Acenaphthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Acenaphthylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Surrogate(s): Fluorene-d10		Recovery: 95.8%		Limits: 25-125%	"								09/14/07 17:51	
Pyrene-d10		110%		23-150%	"								"	
Benzo (a) pyrene-d12		63.9%		10-125%	"								"	

LCS (7090171-BS1)

Extracted: 09/06/07 13:00

Acenaphthene	EPA 8270m	2.42	---	0.100	ug/l	1x	--	2.50	96.9%	(26-135)	--	--	09/14/07 18:18	
Benzo (a) pyrene	"	1.99	---	0.100	"	"	--	"	79.5%	(38-137)	--	--	"	
Pyrene	"	2.64	---	0.100	"	"	--	"	106%	(33-133)	--	--	"	
Surrogate(s): Fluorene-d10		Recovery: 98.6%		Limits: 25-125%	"								09/14/07 18:18	
Pyrene-d10		109%		23-150%	"								"	
Benzo (a) pyrene-d12		78.7%		10-125%	"								"	

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7090171 Water Preparation Method: 3520B Liq-Liq

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (7090171-BSD1)										Extracted: 09/06/07 13:00				
Acenaphthene	EPA 8270m	0.920	---	0.100	ug/l	1x	--	2.50	36.8%	(26-135)	89.9% (60)		09/14/07 18:46	R2
Benzo (a) pyrene	"	0.815	---	0.100	"	"	--	"	32.6%	(38-137)	83.7%	"	"	L2, R2
Pyrene	"	0.963	---	0.100	"	"	--	"	38.5%	(33-133)	93.0%	"	"	R2
<i>Surrogate(s):</i>	<i>Fluorene-d10</i>	<i>Recovery:</i>	<i>37.3%</i>	<i>Limits:</i>	<i>25-125%</i>	<i>"</i>							<i>09/14/07 18:46</i>	
	<i>Pyrene-d10</i>		<i>40.1%</i>		<i>23-150%</i>	<i>"</i>							<i>"</i>	
	<i>Benzo (a) pyrene-d12</i>		<i>31.4%</i>		<i>10-125%</i>	<i>"</i>							<i>"</i>	

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name: Crowley Project Number: 008.205.00007 Project Manager: Steve Hammer	Report Created: 10/03/07 15:51
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7110023	Water Preparation Method: EPA 5030B
--------------------------	--------------------------------------------

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7110023-BLK1)													Extracted: 09/11/07 20:33	
Acetone	EPA 8260B	ND	---	20.0	ug/l	1x	--	--	--	--	--	--	09/12/07 04:09	
Benzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1-Chlorohexane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name: Crowley Project Number: 008.205.00007 Project Manager: Steve Hammer	Report Created: 10/03/07 15:51
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7I10023	Water Preparation Method: EPA 5030B
--------------------------	--------------------------------------------

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7I10023-BLK1)													Extracted: 09/11/07 20:33	
Ethylbenzene	EPA 8260B	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	09/12/07 04:09	
Hexachlorobutadiene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	C
Isopropylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	C
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 98.4%	Limits: 70-130%	"	09/12/07 04:09
Toluene-d8	101%	75-125%	"	"
4-BFB	101%	75-125%	"	"

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 7110023 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Extracted: 09/11/07 20:33														
LCS (7110023-BS1)														
Benzene	EPA 8260B	18.7	---	1.00	ug/l	1x	--	20.0	93.3%	(80-120)	--	--	09/12/07 03:06	
Chlorobenzene	"	19.1	---	1.00	"	"	--	"	95.3%	"	--	--	"	
1,1-Dichloroethene	"	19.5	---	1.00	"	"	--	"	97.4%	(75-125)	--	--	"	
Methyl tert-butyl ether	"	19.2	---	2.00	"	"	--	"	96.0%	(75-126)	--	--	"	
Toluene	"	18.7	---	1.00	"	"	--	"	93.4%	(75-125)	--	--	"	
Trichloroethene	"	18.9	---	1.00	"	"	--	"	94.4%	"	--	--	"	
Total Xylenes	"	58.9	---	3.00	"	"	--	60.0	98.2%	"	--	--	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	94.3%	Limits:	70-130%	"							09/12/07 03:06	
	Toluene-d8		99.6%		75-125%	"							"	
	4-BFB		102%		75-125%	"							"	

LCS Dup (7110023-BSD1)

Extracted: 09/11/07 20:33														
Benzene	EPA 8260B	19.5	---	1.00	ug/l	1x	--	20.0	97.3%	(80-120)	4.20% (20)		09/12/07 03:38	
Chlorobenzene	"	20.3	---	1.00	"	"	--	"	102%	"	6.30%	"	"	
1,1-Dichloroethene	"	20.6	---	1.00	"	"	--	"	103%	(75-125)	5.29%	"	"	
Methyl tert-butyl ether	"	20.1	---	2.00	"	"	--	"	101%	(75-126)	4.83%	"	"	
Toluene	"	20.0	---	1.00	"	"	--	"	99.8%	(75-125)	6.58%	"	"	
Trichloroethene	"	19.8	---	1.00	"	"	--	"	99.2%	"	4.91%	"	"	
Total Xylenes	"	63.1	---	3.00	"	"	--	60.0	105%	"	6.92%	"	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	96.9%	Limits:	70-130%	"							09/12/07 03:38	
	Toluene-d8		102%		75-125%	"							"	
	4-BFB		98.8%		75-125%	"							"	

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland 1800 Blankenship Road Suite 440 West Linn, OR 97068	Project Name: Crowley Project Number: 008.205.00007 Project Manager: Steve Hammer	Report Created: 10/03/07 15:51
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7111075 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7111075-BLK1)													Extracted: 09/10/07 20:06	
Acetone	EPA 8260B	ND	---	20.0	ug/l	1x	--	--	--	--	--	--	09/11/07 02:45	
Benzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1-Chlorohexane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

TestAmerica - Portland, OR

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7111075 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7111075-BLK1)													Extracted: 09/10/07 20:06	
Ethylbenzene	EPA 8260B	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	09/11/07 02:45	
Hexachlorobutadiene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	C
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	114%	Limits:	70-130%	"							09/11/07 02:45	
	Toluene-d8		98.8%		75-125%	"							"	
	+BFB		99.0%		75-125%	"							"	

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7111075 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7111075-BS1)													Extracted: 09/10/07 20:06	
Benzene	EPA 8260B	18.9	---	1.00	ug/l	1x	--	20.0	94.4%	(80-120)	--	--	09/11/07 01:43	
Chlorobenzene	"	19.6	---	1.00	"	"	--	"	98.0%	"	--	--	"	
1,1-Dichloroethene	"	19.8	---	1.00	"	"	--	"	99.0%	(75-125)	--	--	"	
Methyl tert-butyl ether	"	18.3	---	2.00	"	"	--	"	91.3%	(75-126)	--	--	"	
Toluene	"	18.6	---	1.00	"	"	--	"	92.8%	(75-125)	--	--	"	
Trichloroethene	"	19.2	---	1.00	"	"	--	"	96.2%	"	--	--	"	
Total Xylenes	"	58.2	---	3.00	"	"	--	60.0	96.9%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 103%</i>		<i>Limits: 70-130%</i>								<i>09/11/07 01:43</i>		
<i>Toluene-d8</i>		<i>101%</i>		<i>75-125%</i>								<i>"</i>		
<i>+BFB</i>		<i>98.9%</i>		<i>75-125%</i>								<i>"</i>		

LCS Dup (7111075-BSD1)													Extracted: 09/10/07 20:06	
Benzene	EPA 8260B	18.0	---	1.00	ug/l	1x	--	20.0	90.0%	(80-120)	4.77% (20)		09/11/07 02:14	
Chlorobenzene	"	18.9	---	1.00	"	"	--	"	94.6%	"	3.53%	"	"	
1,1-Dichloroethene	"	18.5	---	1.00	"	"	--	"	92.6%	(75-125)	6.58%	"	"	
Methyl tert-butyl ether	"	17.9	---	2.00	"	"	--	"	89.4%	(75-126)	2.05%	"	"	
Toluene	"	17.9	---	1.00	"	"	--	"	89.6%	(75-125)	3.56%	"	"	
Trichloroethene	"	18.4	---	1.00	"	"	--	"	91.8%	"	4.68%	"	"	
Total Xylenes	"	56.6	---	3.00	"	"	--	60.0	94.3%	"	2.75%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 103%</i>		<i>Limits: 70-130%</i>								<i>09/11/07 02:14</i>		
<i>Toluene-d8</i>		<i>101%</i>		<i>75-125%</i>								<i>"</i>		
<i>+BFB</i>		<i>97.4%</i>		<i>75-125%</i>								<i>"</i>		

Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland	Project Name: Crowley	Report Created:
1800 Blankenship Road Suite 440	Project Number: 008.205.00007	10/03/07 15:51
West Linn, OR 97068	Project Manager: Steve Hammer	

Oxygenates by EPA Method 8260B - Laboratory Quality Control Results
TestAmerica - Seattle, WA

QC Batch: 7112067 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7112067-BLK1)													Extracted: 09/12/07 15:30	
tert-Amyl Methyl Ether	EPA 8260B	ND	---	1.00	ug/l	1x	--	--	--	--	--	--	09/12/07 18:23	
tert-Butyl Alcohol	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane (EDC)	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Diisopropyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethanol	"	ND	---	250	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 70-130%</i>										09/12/07 18:23
<i>Toluene-d8</i>			<i>100%</i>	<i>75-125%</i>										"
<i>4-BFB</i>			<i>98.8%</i>	<i>75-125%</i>										"

LCS (7112067-BS1)

Extracted: 09/12/07 15:30

tert-Amyl Methyl Ether	EPA 8260B	21.2	---	1.00	ug/l	1x	--	20.0	106%	(75-125)	--	--	09/12/07 16:48	
tert-Butyl Alcohol	"	96.2	---	50.0	"	"	--	100	96.2%	"	--	--	"	
1,2-Dibromoethane (EDB)	"	20.8	---	0.500	"	"	--	20.0	104%	"	--	--	"	
1,2-Dichloroethane (EDC)	"	20.7	---	0.500	"	"	--	"	103%	"	--	--	"	
Diisopropyl ether	"	21.2	---	1.00	"	"	--	"	106%	"	--	--	"	
Ethyl tert-butyl ether	"	21.4	---	1.00	"	"	--	"	107%	"	--	--	"	
Ethanol	"	403	---	250	"	"	--	400	101%	"	--	--	"	
Methyl tert-butyl ether	"	20.8	---	5.00	"	"	--	20.0	104%	(75-126)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 70-130%</i>										09/12/07 16:48
<i>Toluene-d8</i>			<i>98.0%</i>	<i>75-125%</i>										"
<i>4-BFB</i>			<i>98.4%</i>	<i>75-125%</i>										"

LCS Dup (7112067-BSD1)

Extracted: 09/12/07 15:30

tert-Amyl Methyl Ether	EPA 8260B	21.0	---	1.00	ug/l	1x	--	20.0	105%	(75-125)	0.855% (25)		09/12/07 17:25	
tert-Butyl Alcohol	"	96.6	---	50.0	"	"	--	100	96.6%	"	0.415%	"	"	
1,2-Dibromoethane (EDB)	"	20.6	---	0.500	"	"	--	20.0	103%	"	0.580%	"	"	
1,2-Dichloroethane (EDC)	"	20.1	---	0.500	"	"	--	"	101%	"	2.65%	"	"	
Diisopropyl ether	"	20.6	---	1.00	"	"	--	"	103%	"	3.11%	"	"	
Ethyl tert-butyl ether	"	20.9	---	1.00	"	"	--	"	104%	"	2.46%	"	"	
Ethanol	"	435	---	250	"	"	--	400	109%	"	7.59%	"	"	
Methyl tert-butyl ether	"	20.7	---	5.00	"	"	--	20.0	103%	(75-126)	0.482% (20)	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>98.5%</i>	<i>Limits: 70-130%</i>										09/12/07 17:25
<i>Toluene-d8</i>			<i>99.0%</i>	<i>75-125%</i>										"
<i>4-BFB</i>			<i>101%</i>	<i>75-125%</i>										"

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Brian Cone, Industrial Services Manager



SLR-Portland

1800 Blankenship Road Suite 440
West Linn, OR 97068

Project Name: **Crowley**
Project Number: 008.205.00007
Project Manager: Steve Hammer

Report Created:
10/03/07 15:51

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- L2 - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
- Q12 - Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.
- Q7 - The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
- Q9 - Hydrocarbon pattern most closely resembles weathered diesel.
- R2 - The RPD exceeded the acceptance limit.
- RL1 - Reporting limit raised due to sample matrix effects.
- RL3 - Reporting limit raised due to high concentrations of non-target analytes.
- Z6 - Surrogate recovery was below acceptance limits.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.



WORK ORDER

Printed: 9/4/2007 11:20:01AM

PQH1357

TestAmerica - Portland, OR

Client: SLR-Portland	Project Manager: Christina Woodcock
Project: Crowley	Project Number: 008.205.00007

Report To:
 SLR-Portland
 Steve Hammer
 1800 Blankenship Road Suite 440
 West Linn, OR 97068
 Phone: (503) 723-4423
 Fax: (503) 723-4436

Invoice To:
 SLR-Portland
 Steve Hammer
 1800 Blankenship Road Suite 440
 West Linn, OR 97068
 Phone : (503) 723-4423
 Fax: (503) 723-4436

Date Due: 09/17/07 18:00 (10 day TAT)

Received By: Peggy Siegfried

Date Received: 08/31/07 11:50

Logged In By: Stephanie McCartney

Date Logged In: 08/31/07 20:46

Samples Received at:	1.8°C
All containers intact:	Yes
Sample labels/COC agree:	Yes
Samples Preserved Properly:	Yes
Custody Seals Present:	No

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

PQH1357

TestAmerica - Portland, OR

Client: SLR-Portland	Project Manager: Christina Woodcock
Project: Crowley	Project Number: 008.205.00007

Analysis	Duc	TAT	Expires	Comments
PQH1357-01 MW-1 [Water] Sampled 08/30/07 11:33 Pacific				can also use voas from sample PQH1357-07
<i>A = 1L Amber - HCl</i>		<i>B = 1L Amber - HCl</i>		<i>C = 1L Amber - Unpres.</i>
<i>E = Voa Vial - HCl</i>		<i>F = Voa Vial - HCl</i>		<i>D = 1L Amber - Unpres.</i>
<i>G = Voa Vial - HCl</i>				
NWTPH-Gx	09/10/07 12:00	5	09/13/07 11:33	can also use voas from sample PQH1357-07
8260B Oxygenates + RBCA	09/14/07 23:59	10	09/13/07 11:33	BTEX, N, n-hexane, MTBE, EDB,EDC only
8270 SIM PAH	09/14/07 23:59	10	09/06/07 11:33	include 1&2 methyl naphthalene
NWTPH-Dx	09/10/07 12:00	5	09/13/07 11:33	
PQH1357-02 MW-2 [Water] Sampled 08/30/07 13:50 Pacific				
<i>A = 1L Amber - HCl</i>		<i>B = 1L Amber - HCl</i>		<i>C = 1L Amber - Unpres.</i>
<i>E = Voa Vial - HCl</i>		<i>F = Voa Vial - HCl</i>		<i>D = 1L Amber - Unpres.</i>
<i>I = Voa Vial - HCl</i>		<i>G = Voa Vial - HCl</i>		<i>H = Voa Vial - HCl</i>
NWTPH-Dx	09/10/07 12:00	5	09/13/07 13:50	
NWTPH-Gx	09/10/07 12:00	5	09/13/07 13:50	
8260B Oxygenates + RBCA	09/14/07 23:59	10	09/13/07 13:50	BTEX, N, n-hexane, MTBE, EDB,EDC only
8270 SIM PAH	09/14/07 23:59	10	09/06/07 13:50	include 1&2 methyl naphthalene
PQH1357-03 MW-3 [Water] Sampled 08/30/07 11:01 Pacific				
<i>A = 1L Amber - HCl</i>		<i>B = 1L Amber - HCl</i>		<i>C = Voa Vial - HCl</i>
<i>E = Voa Vial - HCl</i>		<i>F = Voa Vial - HCl</i>		<i>D = Voa Vial - HCl</i>
<i>G = Voa Vial - HCl</i>				
NWTPH-Dx	09/10/07 12:00	5	09/13/07 11:01	
NWTPH-Gx	09/10/07 12:00	5	09/13/07 11:01	
PQH1357-04 MW-4 [Water] Sampled 08/30/07 12:16 Pacific				
<i>A = 1L Amber - HCl</i>		<i>B = 1L Amber - HCl</i>		<i>C = Voa Vial - HCl</i>
<i>E = Voa Vial - HCl</i>		<i>F = Voa Vial - HCl</i>		<i>D = Voa Vial - HCl</i>
<i>G = Voa Vial - HCl</i>				
NWTPH-Gx	09/10/07 12:00	5	09/13/07 12:16	
NWTPH-Dx	09/10/07 12:00	5	09/13/07 12:16	
PQH1357-05 MW-17 [Water] Sampled 08/30/07 10:22 Pacific				
<i>A = 1L Amber - HCl</i>		<i>B = 1L Amber - HCl</i>		<i>C = Voa Vial - HCl</i>
<i>E = Voa Vial - HCl</i>		<i>F = Voa Vial - HCl</i>		<i>D = Voa Vial - HCl</i>
<i>G = Voa Vial - HCl</i>				
NWTPH-Gx	09/10/07 12:00	5	09/13/07 10:22	
NWTPH-Dx	09/10/07 12:00	5	09/13/07 10:22	
PQH1357-06 RW-4 [Water] Sampled 08/30/07 15:38 Pacific				
<i>A = 1L Amber - HCl</i>				
NWTPH-Dx	09/10/07 12:00	5	09/13/07 15:38	
PQH1357-07 MW-1 [Water] Sampled 08/31/07 08:43 Pacific				use voas for sample PQH1357-01
<i>A = Voa Vial - HCl</i>		<i>B = Voa Vial - HCl</i>		
PQH1357-08 EX-2 [Water] Sampled 08/31/07 08:26 Pacific				
<i>A = 1L Amber - HCl</i>		<i>B = 1L Amber - HCl</i>		<i>C = Voa Vial - HCl</i>
<i>E = Voa Vial - HCl</i>		<i>F = Voa Vial - HCl</i>		<i>D = Voa Vial - HCl</i>
<i>G = Voa Vial - HCl</i>				
NWTPH-Dx	09/10/07 12:00	5	09/14/07 08:26	
NWTPH-Gx	09/10/07 12:00	5	09/14/07 08:26	

PQH1357

TestAmerica - Portland, OR

Client: SLR-Portland Project: Crowley	Project Manager: Christina Woodcock Project Number: 008.205.00007
--------------------------------------------------------	------------------------------------------------------------------------------------

Analysis	Due	TAT	Expires	Comments												
PQH1357-09 MW-11 [Water] Sampled 08/31/07 09:03 Pacific																
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">A = 1L Amber - HCl</td> <td style="width: 25%;">B = 1L Amber - HCl</td> <td style="width: 25%;">C = Voa Vial - HCl</td> <td style="width: 25%;">D = Voa Vial - HCl</td> </tr> <tr> <td>E = Voa Vial - HCl</td> <td>F = Voa Vial - HCl</td> <td>G = Voa Vial - HCl</td> <td></td> </tr> </table>					A = 1L Amber - HCl	B = 1L Amber - HCl	C = Voa Vial - HCl	D = Voa Vial - HCl	E = Voa Vial - HCl	F = Voa Vial - HCl	G = Voa Vial - HCl					
A = 1L Amber - HCl	B = 1L Amber - HCl	C = Voa Vial - HCl	D = Voa Vial - HCl													
E = Voa Vial - HCl	F = Voa Vial - HCl	G = Voa Vial - HCl														
NWTPH-Dx	09/10/07 12:00	5	09/14/07 09:03													
NWTPH-Gx	09/10/07 12:00	5	09/14/07 09:03													
PQH1357-10 MW-16 [Water] Sampled 08/31/07 09:37 Pacific																
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">A = 1L Amber - HCl</td> <td style="width: 25%;">B = 1L Amber - HCl</td> <td style="width: 25%;">C = 1L Amber - Unpres.</td> <td style="width: 25%;">D = 1L Amber - Unpres.</td> </tr> <tr> <td>E = Voa Vial - HCl</td> <td>F = Voa Vial - HCl</td> <td>G = Voa Vial - HCl</td> <td>H = Voa Vial - HCl</td> </tr> <tr> <td>I = Voa Vial - HCl</td> <td></td> <td></td> <td></td> </tr> </table>					A = 1L Amber - HCl	B = 1L Amber - HCl	C = 1L Amber - Unpres.	D = 1L Amber - Unpres.	E = Voa Vial - HCl	F = Voa Vial - HCl	G = Voa Vial - HCl	H = Voa Vial - HCl	I = Voa Vial - HCl			
A = 1L Amber - HCl	B = 1L Amber - HCl	C = 1L Amber - Unpres.	D = 1L Amber - Unpres.													
E = Voa Vial - HCl	F = Voa Vial - HCl	G = Voa Vial - HCl	H = Voa Vial - HCl													
I = Voa Vial - HCl																
NWTPH-Dx	09/10/07 12:00	5	09/14/07 09:37													
NWTPH-Gx	09/10/07 12:00	5	09/14/07 09:37													
8260B Oxygenates + RBCA	09/14/07 23:59	10	09/14/07 09:37	BTEX, N, n-hexane, MTBE, EDB,EDC only												
8270 SIM PAH	09/14/07 23:59	10	09/07/07 09:37	include 1&2 methyl naphthalene												
PQH1357-11 MW-12 [Water] Sampled 08/31/07 10:05 Pacific																
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">A = 1L Amber - HCl</td> <td style="width: 25%;">B = 1L Amber - HCl</td> <td style="width: 25%;">C = Voa Vial - HCl</td> <td style="width: 25%;">D = Voa Vial - HCl</td> </tr> <tr> <td>E = Voa Vial - HCl</td> <td>F = Voa Vial - HCl</td> <td>G = Voa Vial - HCl</td> <td></td> </tr> </table>					A = 1L Amber - HCl	B = 1L Amber - HCl	C = Voa Vial - HCl	D = Voa Vial - HCl	E = Voa Vial - HCl	F = Voa Vial - HCl	G = Voa Vial - HCl					
A = 1L Amber - HCl	B = 1L Amber - HCl	C = Voa Vial - HCl	D = Voa Vial - HCl													
E = Voa Vial - HCl	F = Voa Vial - HCl	G = Voa Vial - HCl														
NWTPH-Dx	09/10/07 12:00	5	09/14/07 10:05													
NWTPH-Gx	09/10/07 12:00	5	09/14/07 10:05													
PQH1357-12 MW-19 [Water] Sampled 08/31/07 08:07 Pacific																
only received one amber for this sample																
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">A = 1L Amber - HCl</td> <td></td> <td></td> <td></td> </tr> </table>					A = 1L Amber - HCl											
A = 1L Amber - HCl																
NWTPH-Dx	09/10/07 12:00	5	09/14/07 08:07													

TestAmerica

ANALYTICAL TESTING CORPORATION

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302
 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 503-906-9200 FAX 906-9210
 3000 W. International Airport Rd, Ste. 318, Anchorage, AK 99502-3119
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **R241351**

CLIENT:	INVOICE TO:	PRESERVATIVE:	REQUESTED ANALYSES											TURNAROUND REQUEST					
SLR																			
REPORT TO: 1800 Blenkinship Road Suite 440 West Linn, OR 97068	PROJECT NUMBER: 503-723-4423	PROJECT NUMBER: 503-723-4436	REQUESTED ANALYSES											TURNAROUND REQUEST					
PHONE: 503-723-4423	FAX: 503-723-4436		SWTPH	D	SWTPH	DX	PATHS	(8775IM)	BTEX	(8260C)	Gasoline	Add. *	SVOC's	(8275IM)	VOC's	(8260C)	in Business Days *		
PROJECT NUMBER: 008.205.00007	SAMPLED BY: EMG, JMZ																<input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5	<input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	REQUESTED ANALYSES											TURNAROUND REQUEST						
1. MW-1	8/30/07 11:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<input type="checkbox"/> OTHER Specify:	<input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1	
2. MW-2	8/30/07 1:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	* Turnaround Requests less than standard may incur Rush Charges.	<input type="checkbox"/> 7 <input type="checkbox"/> 5	
3. MW-3	8/30/07 11:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MATRIX (W, S, O)	<input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1	
4. MW-4	8/30/07 12:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LOCATION / COMMENTS	<input type="checkbox"/> 7 <input type="checkbox"/> 5	
5. MW-17	8/30/07 10:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	TA	<input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1	
6. RW-4	8/30/07 3:38																WO ID	<input type="checkbox"/> 7 <input type="checkbox"/> 5	
7. MW-1	8/31/07 8:43																	<input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1	
8. EX-2	8/31/07 8:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		<input type="checkbox"/> 7 <input type="checkbox"/> 5	
9. MW-11	8/31/07 9:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		<input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1	
10. MW-16	8/31/07 9:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		<input type="checkbox"/> 7 <input type="checkbox"/> 5	
DATE: 8/31/07	TIME: 11:30	REQUESTED ANALYSES											TURNAROUND REQUEST						
RECEIVED BY: Emly Goodwin	DATE: 8/31/07	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30
RELEASED BY: Emly Goodwin	DATE: 8/31/07	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30
PRINT NAME: Emly Goodwin	DATE: 8/31/07	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30	PRINT NAME: Emly Goodwin	DATE: 8/31/07	TIME: 11:30
ADDITIONAL REMARKS: * Naphthalene 1-methyl naphthalene 2-methyl naphthalene n-hexane, MTBE ethylene dibromide (EDB), 1,2-dichloroethane (EDC) by 8260C.			REQUESTED ANALYSES											TURNAROUND REQUEST					
TEMP: 1.8 2.9 3.2			REQUESTED ANALYSES											TURNAROUND REQUEST					

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ANALYTICAL TESTING CORPORATION

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 425-420-9210 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302
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 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 503-906-9200 FAX 906-9210
 2900 W International Airport Rd Ste A19, Anchorage, AK 99502-1119
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: 19HA1357

CLIENT: SLR	INVOICE TO:	TURNAROUND REQUEST														
REPORT ID: 1800 Blankenship Rd, Suite 4140		In Business Days *														
ADDRESS: West Linn, OR 97068		Organic & Inorganic Analyses														
PHONE: 503-723-4423 FAX: 503-723-4436		Petroleum Hydrocarbon Analyses														
PROJECT NAME: Crowley	PRESERVATIVE:	OTHER Specify:														
PROJECT NUMBER: 008.0205.00007																
SAMPLED BY: ENG Jmz	REQUESTED ANALYSES:	MATRIX (W, S, O)														
CLIENT SAMPLE IDENTIFICATION	<table border="1"> <tr> <td>MTM4</td> <td>6x</td> <td>MTM4</td> <td>DX</td> <td>RAHS</td> <td>(82705M)</td> <td>BTEX-</td> <td>(8260-C)</td> <td>Gasoline</td> <td>ADD *</td> <td>SU DC'S</td> <td>(82705M)</td> <td>VOC'S</td> <td>(8260C)</td> </tr> </table>	MTM4	6x	MTM4	DX	RAHS	(82705M)	BTEX-	(8260-C)	Gasoline	ADD *	SU DC'S	(82705M)	VOC'S	(8260C)	
MTM4	6x	MTM4	DX	RAHS	(82705M)	BTEX-	(8260-C)	Gasoline	ADD *	SU DC'S	(82705M)	VOC'S	(8260C)			
1. MW-12	8/31/07 10:05	X	X	X	X	X	X	X	X	X	X	X	X			
2. MW-19	8/31/07 8:07	X	X	X	X	X	X	X	X	X	X	X	X			
3.																
4.																
5.																
6.																
7.																
8.																
9.																

DATE: 8/31/07	DATE: 8/31/07
TIME: 11:50	TIME: 11:50
RECEIVED BY: Emely Goodwin	RECEIVED BY: Emely Goodwin
PRINT NAME: Emely Goodwin	PRINT NAME: Emely Goodwin
FIRM: TAP	FIRM: TAP
DATE: 8/31/07	DATE: 8/31/07
TIME: 11:50	TIME: 11:50
RECEIVED BY: Emely Goodwin	RECEIVED BY: Emely Goodwin
PRINT NAME: Emely Goodwin	PRINT NAME: Emely Goodwin
FIRM: TAP	FIRM: TAP

ADDITIONAL REMARKS:
 * Naphthalene, 1-methyl naphthalene 2-methyl naphthalene, n-hexane, MTBE, ethylene dibromide (EDB)
 1,2-dichloroethane (EDC) by 8260C.

TEMP: (E08) PAGE 08
 1.8
 2.9
 3.2

TestAmerica Sample Receipt Checklist

Client ID: 048
046
C06

Received by: PA
Date: 8/31/07
Time: 1150
Initials: PA

Unpacked by: SM
Date: 8/31
Initials: SM

Logged-in by: SA
Date: 8/31
Initials: SA

Work Order No: PQH1357
Client: SPRINT/Knowlton
Project: SPRINT/Knowlton

Temperature out of range:

- No ice
- Ice Melted
- Within 4 Hours
- Other

***ESI Clients (see Section C)

1832

Cooler Temperature (IR): 2.9 °C plastic glass NA (oil/air samples, ESI client)

A Custody Seals: (#)

Signature: Y N Dated:
 None

Container Type: 3 #Cooler(s)
 #Box(s)
 None (#Other:)

Coolant Type: Gel Ice
 Loose Ice
 None

Packing Material: Bubble Bags
 Styrofoam Cubbies
 None (Other:)

Received from:

- TA Courier
- Senvoy
- UPS
- Fed Ex
- Client
- TDP
- DHL
- SDS
- Mid-Valley
- GS/TA
- GS/Senvoy
- Other:

B

Sample Status:

(If N circled, see NOI.)

General: Intact? Y N
Containers Match COC? Y N
ID's Match COC? Y N
For Analyses Requested: Y N
Correct Type & Preservation? Y N
Adequate Volume? Y N
Within Hold Time? Y N
Volatiles: Y N
VOAs Free of Headspace? Y N NA
TB on COC? Y N NA
Metals: Y N NA
H103 Preserved? Y N NA

C ***ESI Clients Only:

Temperature Blank: °C not provided
All preserved bottles checked Y N
All preserved accordingly? Y N (see MOD) NA (voas/soils/all unp.)

Army Corp:

Geiger (ticks/min):
Temperatures (IR): °C °C °C
(left) (middle) (right) (air)

Project Managers:

Comments:

PM Reviewed: (Initial/Date)

APPENDIX H

PORT OF VANCOUVER'S JULY 2007 GROUNDWATER MONITORING EVENT

July 27, 2007

Brian McNamara
URS Corp.-Portland
111 SW Columbia, Suite 1500
Portland, OR 97201-5850

RE: ALCOA Port of Vancouver

Enclosed are the results of analyses for samples received by the laboratory on 07/12/07 11:15.
The following list is a summary of the Work Orders contained in this report, generated on 07/27/07
11:58.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
PQG0396	ALCOA Port of Vancouver	25696370

TestAmerica - Portland, OR



Christina Woodcock, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain
of custody document. This analytical report shall not be reproduced except in full,
without the written approval of the laboratory.*




URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name:	ALCOA Port of Vancouver	Report Created: 07/27/07 11:58
	Project Number:	25696370	
	Project Manager:	Brian McNamara	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW18I	PQG0396-01	Water	07/11/07 16:15	07/12/07 11:15
MW49D	PQG0396-02	Water	07/11/07 09:40	07/12/07 11:15
MW3	PQG0396-03	Water	07/11/07 12:41	07/12/07 11:15
MW2	PQG0396-04	Water	07/11/07 15:15	07/12/07 11:15
MW7	PQG0396-05	Water	07/11/07 14:00	07/12/07 11:15

TestAmerica - Portland, OR



Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	-----------------------------------

Gasoline Hydrocarbons per NW TPH-Gx Method
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-03 (MW3)		Water			Sampled: 07/11/07 12:41					
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	----	80.0	ug/l	1x	7070616	07/17/07 11:32	07/17/07 13:58	
Surrogate(s):	-BFB		100%		50 - 150 %	"				"
PQG0396-04 (MW2)		Water			Sampled: 07/11/07 15:15					
Gasoline Range Hydrocarbons	NW TPH-Gx	159	---	80.0	ug/l	1x	7070616	07/17/07 11:32	07/17/07 14:23	
Surrogate(s):	-BFB		96.1%		50 - 150 %	"				"
PQG0396-05 (MW7)		Water			Sampled: 07/11/07 14:00					
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	----	800	ug/l	10x	7070616	07/17/07 11:32	07/17/07 14:48	RLI
Surrogate(s):	-BFB		101%		50 - 150 %	1x				"

TestAmerica - Portland, OR

Christina M. Woodcock

Christina Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	-----------------------------------

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-03 (MW3)		Water			Sampled: 07/11/07 12:41					
Diesel Range Organics	NWTPH-Dx	4.52	---	0.243	mg/l	1x	7070560	07/16/07 16:30	07/16/07 23:03	Q12
Heavy Oil Range Hydrocarbons	"	1.41	---	0.485	"	"	"	"	"	Q7
<i>Surrogate(s): 1-Chlorooctadecane</i>			102%		50 - 150 %	"				"
PQG0396-04 (MW2)		Water			Sampled: 07/11/07 15:15					
Diesel Range Organics	NWTPH-Dx	9.60	---	0.243	mg/l	1x	7070560	07/16/07 16:30	07/16/07 23:38	Q9
Heavy Oil Range Hydrocarbons	"	3.30	---	0.485	"	"	"	"	"	A-01
<i>Surrogate(s): 1-Chlorooctadecane</i>			102%		50 - 150 %	"				"
PQG0396-05 (MW7)		Water			Sampled: 07/11/07 14:00					
Diesel Range Organics	NWTPH-Dx	22.2	---	0.250	mg/l	1x	7070560	07/16/07 16:30	07/17/07 00:14	Q9
Heavy Oil Range Hydrocarbons	"	3.54	---	0.500	"	"	"	"	"	Q7
<i>Surrogate(s): 1-Chlorooctadecane</i>			108%		50 - 150 %	"				"

TestAmerica - Portland, OR

Christina M. Woodcock

Christina Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
-------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------	------------------------------------------

Extractable Petroleum Hydrocarbons per Washington DOE
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-03 (MW3)		Water			Sampled: 07/11/07 12:41					
C8-C10 Aromatics	WDOE EPH	ND	---	0.0476	mg/l	1x	7070688	07/18/07 16:20	07/20/07 14:30	
C10-C12 Aromatics	"	ND	---	0.0476	"	"	"	"	"	"
C12-C16 Aromatics	"	ND	---	0.0476	"	"	"	"	"	"
C16-C21 Aromatics	"	ND	---	0.0476	"	"	"	"	"	"
C21-C34 Aromatics	"	ND	---	0.0476	"	"	"	"	"	"
C8-C10 Aliphatics	"	ND	---	0.0476	"	"	"	"	"	"
C10-C12 Aliphatics	"	ND	---	0.0476	"	"	"	"	"	"
C12-C16 Aliphatics	"	ND	---	0.0476	"	"	"	"	"	"
C16-C21 Aliphatics	"	ND	---	0.0476	"	"	"	"	"	"
C21-C34 Aliphatics	"	ND	---	0.0476	"	"	"	"	"	"
Total EPH (Calc.)	"	ND	---	0.476	"	"	[CALC]	"	"	"
Surrogate(s):	<i>o-Terphenyl</i>		64.0%		60 - 140 %	"				"
	<i>Squalane</i>		78.4%		60 - 140 %	"				"

PQG0396-04 (MW2)		Water			Sampled: 07/11/07 15:15					
C8-C10 Aromatics	WDOE EPH	ND	---	0.0476	mg/l	1x	7070688	07/18/07 16:20	07/20/07 14:59	
C10-C12 Aromatics	"	ND	---	0.0476	"	"	"	"	"	"
C12-C16 Aromatics	"	0.0984	---	0.0476	"	"	"	"	"	"
C16-C21 Aromatics	"	0.301	---	0.0476	"	"	"	"	"	"
C21-C34 Aromatics	"	0.0966	---	0.0476	"	"	"	"	"	"
C8-C10 Aliphatics	"	ND	---	0.0476	"	"	"	"	"	"
C10-C12 Aliphatics	"	0.0905	---	0.0476	"	"	"	"	"	"
C12-C16 Aliphatics	"	0.736	---	0.0476	"	"	"	"	"	"
C16-C21 Aliphatics	"	0.851	---	0.0476	"	"	"	"	"	"
C21-C34 Aliphatics	"	0.481	---	0.0476	"	"	"	"	"	"
Total EPH (Calc.)	"	2.65	---	0.476	"	"	[CALC]	"	"	"
Surrogate(s):	<i>o-Terphenyl</i>		86.8%		60 - 140 %	"				"
	<i>Squalane</i>		99.2%		60 - 140 %	"				"

PQG0396-05 (MW7)		Water			Sampled: 07/11/07 14:00						RL4
C8-C10 Aromatics	WDOE EPH	ND	---	0.200	mg/l	1x	7070688	07/18/07 16:20	07/20/07 15:28		
C10-C12 Aromatics	"	ND	---	0.200	"	"	"	"	"	"	
C12-C16 Aromatics	"	0.751	---	0.200	"	"	"	"	"	"	
C16-C21 Aromatics	"	4.34	---	0.200	"	"	"	"	"	"	
C21-C34 Aromatics	"	2.40	---	0.200	"	"	"	"	"	"	
C8-C10 Aliphatics	"	0.333	---	0.200	"	"	"	"	"	"	
C10-C12 Aliphatics	"	3.23	---	0.200	"	"	"	"	"	"	
C12-C16 Aliphatics	"	13.7	---	0.200	"	"	"	"	"	"	
C16-C21 Aliphatics	"	13.4	---	0.200	"	"	"	"	"	"	
C21-C34 Aliphatics	"	4.29	---	0.200	"	"	"	"	"	"	

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Christina Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Extractable Petroleum Hydrocarbons per Washington DOE
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-05 (MW7)		Water			Sampled: 07/11/07 14:00					
Total EPH (Calc.)	WDOE EPH	42.4	----	2.00	mg/l	1x	[CALC]	07/18/07 16:20	07/20/07 15:28	
<i>Surrogate(s):</i>	<i>o-Terphenyl</i>	92.1%			60 - 140 %	"				"
	<i>Squalane</i>	101%			60 - 140 %	"				"

TestAmerica - Portland, OR

Christina M. Woodcock

Christina Woodcock, Project Manager

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Volatile Petroleum Hydrocarbons per Washington DOE
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-03 (MW3)		Water					Sampled: 07/11/07 12:41			RL1
C5-C6 Aliphatics	WDOE VPH	ND	---	500	ug/l	10x	7070752	07/19/07 14:14	07/19/07 18:00	
C6-C8 Aliphatics	"	ND	---	500	"	"	"	"	"	
C8-C10 Aliphatics	"	ND	---	500	"	"	"	"	"	
C10-C12 Aliphatics	"	ND	---	500	"	"	"	"	"	
C8-C10 Aromatics	"	ND	---	500	"	"	"	"	"	
C10-C12 Aromatics	"	ND	---	500	"	"	"	"	"	
C12-C13 Aromatics	"	ND	---	500	"	"	"	"	"	
Total VPH	"	ND	---	500	"	"	"	"	"	

Surrogate(s): 4-BFB (PID)

105%

70 - 130 %

1x

"

PQG0396-04 (MW2)		Water					Sampled: 07/11/07 15:15			
C5-C6 Aliphatics	WDOE VPH	ND	---	50.0	ug/l	1x	7070752	07/19/07 14:14	07/19/07 18:31	
C6-C8 Aliphatics	"	ND	---	50.0	"	"	"	"	"	
C8-C10 Aliphatics	"	ND	---	50.0	"	"	"	"	"	
C10-C12 Aliphatics	"	ND	---	50.0	"	"	"	"	"	
C8-C10 Aromatics	"	ND	---	50.0	"	"	"	"	"	
C10-C12 Aromatics	"	62.6	---	50.0	"	"	"	"	"	
C12-C13 Aromatics	"	86.8	---	50.0	"	"	"	"	"	
Total VPH	"	150	---	50.0	"	"	"	"	"	

Surrogate(s): 4-BFB (PID)

95.3%

70 - 130 %

"

"

PQG0396-05 (MW7)		Water					Sampled: 07/11/07 14:00			RL1
C5-C6 Aliphatics	WDOE VPH	ND	---	500	ug/l	10x	7070752	07/19/07 14:14	07/19/07 20:07	
C6-C8 Aliphatics	"	ND	---	500	"	"	"	"	"	
C8-C10 Aliphatics	"	ND	---	500	"	"	"	"	"	
C10-C12 Aliphatics	"	ND	---	500	"	"	"	"	"	
C8-C10 Aromatics	"	ND	---	500	"	"	"	"	"	
C10-C12 Aromatics	"	ND	---	500	"	"	"	"	"	
C12-C13 Aromatics	"	ND	---	500	"	"	"	"	"	
Total VPH	"	ND	---	500	"	"	"	"	"	

Surrogate(s): 4-BFB (PID)

103%

70 - 130 %

1x

"

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Christina M. Woodcock

Christina Woodcock, Project Manager

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Organochlorine Pesticides per EPA Method 8081A
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-05 (MW7)		Water				Sampled: 07/11/07 14:00				RL3
Aldrin	EPA 8081A	ND	----	0.556	ug/l	5x	7070535	07/16/07 13:15	07/24/07 21:59	
alpha-BHC	"	ND	----	0.556	"	"	"	"	"	
beta-BHC	"	ND	----	0.556	"	"	"	"	"	
delta-BHC	"	ND	----	0.556	"	"	"	"	"	
gamma-BHC (Lindane)	"	ND	----	0.556	"	"	"	"	"	
gamma-Chlordane	"	ND	----	0.556	"	"	"	"	"	
alpha-Chlordane	"	ND	----	0.556	"	"	"	"	"	
Chlordane (tech)	"	ND	----	5.56	"	"	"	"	"	
4,4'-DDD	"	ND	----	0.556	"	"	"	"	"	
4,4'-DDE	"	ND	----	0.556	"	"	"	"	"	
4,4'-DDT	"	ND	----	0.556	"	"	"	"	"	
Dieldrin	"	ND	----	0.556	"	"	"	"	"	
Endosulfan I	"	ND	----	0.556	"	"	"	"	"	
Endosulfan II	"	ND	----	0.556	"	"	"	"	"	
Endosulfan sulfate	"	ND	----	0.556	"	"	"	"	"	
Endrin	"	ND	----	0.556	"	"	"	"	"	
Endrin aldehyde	"	ND	----	0.556	"	"	"	"	"	
Endrin ketone	"	ND	----	0.556	"	"	"	"	"	
Heptachlor	"	ND	----	0.556	"	"	"	"	"	
Heptachlor epoxide	"	ND	----	0.556	"	"	"	"	"	
Methoxychlor	"	ND	----	0.556	"	"	"	"	"	
Toxaphene	"	ND	----	13.9	"	"	"	"	"	

Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene 61.1% 16 - 137 % "

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Christina M. Woodcock

Christina Woodcock, Project Manager

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Polychlorinated Biphenyls per EPA Method 8082
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-01 (MW18I)		Water			Sampled: 07/11/07 16:15					
Aroclor 1016	EPA 8082	ND	----	0.481	ug/l	1x	7070535	07/16/07 13:15	07/23/07 19:10	
Aroclor 1221	"	ND	----	0.962	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.481	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.481	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.481	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.481	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.481	"	"	"	"	"	

Surrogate(s): Decachlorobiphenyl 57.3% 12 - 130 % "

PQG0396-02 (MW49D)		Water			Sampled: 07/11/07 09:40					
Aroclor 1016	EPA 8082	ND	----	0.476	ug/l	1x	7070535	07/16/07 13:15	07/23/07 19:32	
Aroclor 1221	"	ND	----	0.952	"	"	"	"	"	
Aroclor 1232	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1242	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1248	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1254	"	ND	----	0.476	"	"	"	"	"	
Aroclor 1260	"	ND	----	0.476	"	"	"	"	"	

Surrogate(s): Decachlorobiphenyl 63.6% 12 - 130 % "

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 Christina Woodcock, Project Manager

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Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-01 (MW181)		Water					Sampled: 07/11/07 16:15			
Acetone	EPA 8260B	ND	---	25.0	ug/l	1x	7070655	07/18/07 10:00	07/18/07 14:30	
Benzene	"	ND	---	1.00	"	"	"	"	"	
Bromobenzene	"	ND	---	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	---	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	---	1.00	"	"	"	"	"	
Bromoform	"	ND	---	1.00	"	"	"	"	"	
Bromomethane	"	ND	---	5.00	"	"	"	"	"	
2-Butanone (MEK)	"	ND	---	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	---	5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	---	10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	---	1.00	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	1.00	"	"	"	"	"	
Chloromethane	"	ND	---	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	"	"	"	
Dibromomethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	---	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	4.00	"	"	"	"	"	
2-Hexanone	"	ND	---	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	---	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	2.00	"	"	"	"	"	

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Christina Woodcock

Christina Woodcock, Project Manager

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Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-01 (MW18I)		Water			Sampled: 07/11/07 16:15					
4-Methyl-2-pentanone	EPA 8260B	ND	---	5.00	ug/l	1x	7070655	07/18/07 10:00	07/18/07 14:30	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
Methylene chloride	"	ND	---	5.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	---	1.00	"	"	"	"	"	
Styrene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	---	1.00	"	"	"	"	"	
Toluene	"	ND	---	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	"	"	"	
Trichloroethene	"	ND	---	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	---	1.00	"	"	"	"	"	
o-Xylene	"	ND	---	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	---	2.00	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>4-BFB</i>	<i>105%</i>	<i>80 - 120 %</i>	<i>"</i>	<i>"</i>
	<i>1,2-DCA-d4</i>	<i>108%</i>	<i>80 - 120 %</i>	<i>"</i>	<i>"</i>
	<i>Dibromofluoromethane</i>	<i>109%</i>	<i>80 - 120 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>109%</i>	<i>80 - 120 %</i>	<i>"</i>	<i>"</i>

PQG0396-02 (MW49D)		Water			Sampled: 07/11/07 09:40					
Acetone	EPA 8260B	ND	---	25.0	ug/l	1x	7070655	07/18/07 10:00	07/18/07 14:58	
Benzene	"	ND	---	1.00	"	"	"	"	"	
Bromobenzene	"	ND	---	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	---	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	---	1.00	"	"	"	"	"	
Bromoform	"	ND	---	1.00	"	"	"	"	"	
Bromomethane	"	ND	---	5.00	"	"	"	"	"	
2-Butanone (MEK)	"	ND	---	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	---	5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	---	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	---	10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	---	1.00	"	"	"	"	"	

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Christina Woodcock

Christina Woodcock, Project Manager

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111 SW Columbia, Suite 1500
 Portland, OR 97201-5850

Project Name: **ALCOA Port of Vancouver**

Project Number: 25696370

Project Manager: Brian McNamara

Report Created:

07/27/07 11:58

Volatile Organic Compounds per EPA Method 8260B

TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-02 (MW49D)										
		Water					Sampled: 07/11/07 09:40			
Chloroethane	EPA 8260B	ND	---	1.00	ug/l	1x	7070655	07/18/07 10:00	07/18/07 14:58	
Chloroform	"	ND	---	1.00	"	"	"	"	"	
Chloromethane	"	ND	---	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	"	"	"	
Dibromomethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	---	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	4.00	"	"	"	"	"	
2-Hexanone	"	ND	---	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	---	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	2.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	5.00	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"	
Methylene chloride	"	ND	---	5.00	"	"	"	"	"	
Naphthalene	"	ND	---	2.00	"	"	"	"	"	
n-Propylbenzene	"	ND	---	1.00	"	"	"	"	"	
Styrene	"	ND	---	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	---	1.00	"	"	"	"	"	
Toluene	"	ND	---	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	"	"	"	

TestAmerica - Portland, OR



Christina Woodcock, Project Manager

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URS Corp.-Portland	Project Name: ALCOA Port of Vancouver	Report Created:
111 SW Columbia, Suite 1500	Project Number: 25696370	07/27/07 11:58
Portland, OR 97201-5850	Project Manager: Brian McNamara	

Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-02 (MW49D)		Water			Sampled: 07/11/07 09:40					
Trichloroethene	EPA 8260B	ND	----	1.00	ug/l	1x	7070655	07/18/07 10:00	07/18/07 14:58	
Trichlorofluoromethane	"	ND	----	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.00	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Surrogate(s):	4-BFB		100%		80 - 120 %	"				"
	1,2-DCA-d4		110%		80 - 120 %	"				"
	Dibromofluoromethane		109%		80 - 120 %	"				"
	Toluene-d8		109%		80 - 120 %	"				"

PQG0396-03 (MW3)		Water			Sampled: 07/11/07 12:41						RL1
Acetone	EPA 8260B	ND	----	50.0	ug/l	2x	7070655	07/18/07 10:00	07/18/07 15:52		
Benzene	"	ND	----	2.00	"	"	"	"	"		
Bromobenzene	"	ND	----	2.00	"	"	"	"	"		
Bromochloromethane	"	ND	----	2.00	"	"	"	"	"		
Bromodichloromethane	"	ND	----	2.00	"	"	"	"	"		
Bromoforn	"	ND	----	2.00	"	"	"	"	"		
Bromomethane	"	ND	----	10.0	"	"	"	"	"		
2-Butanone (MEK)	"	ND	----	20.0	"	"	"	"	"		
n-Butylbenzene	"	ND	----	10.0	"	"	"	"	"		
sec-Butylbenzene	"	ND	----	2.00	"	"	"	"	"		
tert-Butylbenzene	"	ND	----	2.00	"	"	"	"	"		
Carbon disulfide	"	ND	----	20.0	"	"	"	"	"		
Carbon tetrachloride	"	ND	----	2.00	"	"	"	"	"		
Chlorobenzene	"	ND	----	2.00	"	"	"	"	"		
Chloroethane	"	ND	----	2.00	"	"	"	"	"		
Chloroform	"	ND	----	2.00	"	"	"	"	"		
Chloromethane	"	ND	----	10.0	"	"	"	"	"		
2-Chlorotoluene	"	ND	----	2.00	"	"	"	"	"		
4-Chlorotoluene	"	ND	----	2.00	"	"	"	"	"		
1,2-Dibromo-3-chloropropane	"	ND	----	10.0	"	"	"	"	"		
Dibromochloromethane	"	ND	----	2.00	"	"	"	"	"		
1,2-Dibromoethane	"	ND	----	2.00	"	"	"	"	"		
Dibromomethane	"	ND	----	2.00	"	"	"	"	"		
1,2-Dichlorobenzene	"	ND	----	2.00	"	"	"	"	"		
1,3-Dichlorobenzene	"	ND	----	2.00	"	"	"	"	"		
1,4-Dichlorobenzene	"	ND	----	2.00	"	"	"	"	"		
Dichlorodifluoromethane	"	ND	----	10.0	"	"	"	"	"		
1,1-Dichloroethane	"	ND	----	2.00	"	"	"	"	"		

TestAmerica - Portland, OR

Christina M. Woodcock

Christina Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
PQG0396-03 (MW3)		Water					Sampled: 07/11/07 12:41				RL1
1,2-Dichloroethane	EPA 8260B	ND	----	2.00	ug/l	2x	7070655	07/18/07 10:00	07/18/07 15:52		
1,1-Dichloroethene	"	ND	----	2.00	"	"	"	"	"		
cis-1,2-Dichloroethene	"	ND	----	2.00	"	"	"	"	"		
trans-1,2-Dichloroethene	"	ND	----	2.00	"	"	"	"	"		
1,2-Dichloropropane	"	ND	----	2.00	"	"	"	"	"		
1,3-Dichloropropane	"	ND	----	2.00	"	"	"	"	"		
2,2-Dichloropropane	"	ND	----	2.00	"	"	"	"	"		
1,1-Dichloropropene	"	ND	----	2.00	"	"	"	"	"		
cis-1,3-Dichloropropene	"	ND	----	2.00	"	"	"	"	"		
trans-1,3-Dichloropropene	"	ND	----	2.00	"	"	"	"	"		
Ethylbenzene	"	ND	----	2.00	"	"	"	"	"		
Hexachlorobutadiene	"	ND	----	8.00	"	"	"	"	"		
2-Hexanone	"	ND	----	20.0	"	"	"	"	"		
Isopropylbenzene	"	ND	----	4.00	"	"	"	"	"		
p-Isopropyltoluene	"	ND	----	4.00	"	"	"	"	"		
4-Methyl-2-pentanone	"	ND	----	10.0	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	2.00	"	"	"	"	"		
Methylene chloride	"	ND	----	10.0	"	"	"	"	"		
Naphthalene	"	ND	----	4.00	"	"	"	"	"		
n-Propylbenzene	"	ND	----	2.00	"	"	"	"	"		
Styrene	"	ND	----	2.00	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	"	ND	----	2.00	"	"	"	"	"		
1,1,1,2,2-Tetrachloroethane	"	ND	----	2.00	"	"	"	"	"		
Tetrachloroethene	"	ND	----	2.00	"	"	"	"	"		
Toluene	"	ND	----	2.00	"	"	"	"	"		
1,2,3-Trichlorobenzene	"	ND	----	2.00	"	"	"	"	"		
1,2,4-Trichlorobenzene	"	ND	----	2.00	"	"	"	"	"		
1,1,1-Trichloroethane	"	ND	----	2.00	"	"	"	"	"		
1,1,2-Trichloroethane	"	ND	----	2.00	"	"	"	"	"		
Trichloroethene	"	ND	----	2.00	"	"	"	"	"		
Trichlorofluoromethane	"	ND	----	2.00	"	"	"	"	"		
1,2,3-Trichloropropane	"	ND	----	2.00	"	"	"	"	"		
1,2,4-Trimethylbenzene	"	ND	----	2.00	"	"	"	"	"		
1,3,5-Trimethylbenzene	"	ND	----	2.00	"	"	"	"	"		
Vinyl chloride	"	ND	----	2.00	"	"	"	"	"		
o-Xylene	"	ND	----	2.00	"	"	"	"	"		
m,p-Xylene	"	ND	----	4.00	"	"	"	"	"		
Surrogate(s): 4-BFB			106%		80 - 120 %	1x				"	
1,2-DCA-d4			106%		80 - 120 %	"				"	
Dibromofluoromethane			108%		80 - 120 %	"				"	
Toluene-d8			110%		80 - 120 %	"				"	

TestAmerica - Portland, OR

Christina M. Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-04 (MW2)		Water			Sampled: 07/11/07 15:15					
Acetone	EPA 8260B	ND	—	25.0	ug/l	1x	7070655	07/18/07 10:00	07/18/07 15:25	
Benzene	"	ND	—	1.00	"	"	"	"	"	
Bromobenzene	"	ND	—	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	—	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	—	1.00	"	"	"	"	"	
Bromoform	"	ND	—	1.00	"	"	"	"	"	
Bromomethane	"	ND	—	5.00	"	"	"	"	"	
2-Butanone (MEK)	"	ND	—	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	—	5.00	"	"	"	"	"	
sec-Butylbenzene	"	ND	—	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	—	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	—	10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	—	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	—	1.00	"	"	"	"	"	
Chloroethane	"	ND	—	1.00	"	"	"	"	"	
Chloroform	"	ND	—	1.00	"	"	"	"	"	
Chloromethane	"	ND	—	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	—	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	—	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	—	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	—	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	—	1.00	"	"	"	"	"	
Dibromomethane	"	ND	—	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	—	5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	—	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	—	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	—	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	—	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	—	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	—	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	—	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	—	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	—	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	—	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	—	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	—	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	—	4.00	"	"	"	"	"	
2-Hexanone	"	ND	—	10.0	"	"	"	"	"	
Isopropylbenzene	"	ND	—	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	—	2.00	"	"	"	"	"	

TestAmerica - Portland, OR

Christina M. Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
PQG0396-04 (MW2)		Water					Sampled: 07/11/07 15:15				
4-Methyl-2-pentanone	EPA 8260B	ND	---	5.00	ug/l	1x	7070655	07/18/07 10:00	07/18/07 15:25		
Methyl tert-butyl ether	"	ND	---	1.00	"	"	"	"	"		
Methylene chloride	"	ND	---	5.00	"	"	"	"	"		
Naphthalene	"	ND	---	2.00	"	"	"	"	"		
n-Propylbenzene	"	ND	---	1.00	"	"	"	"	"		
Styrene	"	ND	---	1.00	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	"	"	"		
Tetrachloroethene	"	ND	---	1.00	"	"	"	"	"		
Toluene	"	ND	---	1.00	"	"	"	"	"		
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"		
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	"	"	"		
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	"	"	"		
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	"	"	"		
Trichloroethene	"	ND	---	1.00	"	"	"	"	"		
Trichlorofluoromethane	"	ND	---	1.00	"	"	"	"	"		
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	"	"	"		
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	"	"	"		
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	"	"	"		
Vinyl chloride	"	ND	---	1.00	"	"	"	"	"		
o-Xylene	"	ND	---	1.00	"	"	"	"	"		
m,p-Xylene	"	ND	---	2.00	"	"	"	"	"		
<i>Surrogate(s):</i>											
	4-BFB		100%		80 - 120 %	"				"	
	1,2-DCA-d4		103%		80 - 120 %	"				"	
	Dibromofluoromethane		104%		80 - 120 %	"				"	
	Toluene-d8		107%		80 - 120 %	"				"	

PQG0396-05 (MW7)		Water					Sampled: 07/11/07 14:00					RL1
Acetone	EPA 8260B	ND	---	50.0	ug/l	2x	7070655	07/18/07 10:00	07/18/07 16:19			
Benzene	"	ND	---	2.00	"	"	"	"	"			
Bromobenzene	"	ND	---	2.00	"	"	"	"	"			
Bromochloromethane	"	ND	---	2.00	"	"	"	"	"			
Bromodichloromethane	"	ND	---	2.00	"	"	"	"	"			
Bromoform	"	ND	---	2.00	"	"	"	"	"			
Bromomethane	"	ND	---	10.0	"	"	"	"	"			
2-Butanone (MEK)	"	ND	---	20.0	"	"	"	"	"			
n-Butylbenzene	"	ND	---	10.0	"	"	"	"	"			
sec-Butylbenzene	"	ND	---	2.00	"	"	"	"	"			
tert-Butylbenzene	"	ND	---	2.00	"	"	"	"	"			
Carbon disulfide	"	ND	---	20.0	"	"	"	"	"			
Carbon tetrachloride	"	ND	---	2.00	"	"	"	"	"			
Chlorobenzene	"	ND	---	2.00	"	"	"	"	"			

TestAmerica - Portland, OR

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Christina Woodcock

Christina Woodcock, Project Manager



URS Corp.-Portland	Project Name: ALCOA Port of Vancouver	Report Created:
111 SW Columbia, Suite 1500	Project Number: 25696370	07/27/07 11:58
Portland, OR 97201-5850	Project Manager: Brian McNamara	

Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-05 (MW7)		Water				Sampled: 07/11/07 14:00				RL1
Chloroethane	EPA 8260B	ND	---	2.00	ug/l	2x	7070655	07/18/07 10:00	07/18/07 16:19	
Chloroform	"	ND	---	2.00	"	"	"	"	"	
Chloromethane	"	ND	---	10.0	"	"	"	"	"	
2-Chlorotoluene	"	ND	---	2.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	---	2.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	"	"	"	
Dibromochloromethane	"	ND	---	2.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	---	2.00	"	"	"	"	"	
Dibromomethane	"	ND	---	2.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	---	2.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	---	2.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	---	2.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	---	10.0	"	"	"	"	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	---	2.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	---	2.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	---	2.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	---	2.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	---	2.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	---	2.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	---	2.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	---	2.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	---	2.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	---	2.00	"	"	"	"	"	
Ethylbenzene	"	ND	---	2.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	---	8.00	"	"	"	"	"	
2-Hexanone	"	ND	---	20.0	"	"	"	"	"	
Isopropylbenzene	"	ND	---	4.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	---	4.00	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	---	10.0	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	---	2.00	"	"	"	"	"	
Methylene chloride	"	ND	---	10.0	"	"	"	"	"	
Naphthalene	"	ND	---	4.00	"	"	"	"	"	
n-Propylbenzene	"	ND	---	2.00	"	"	"	"	"	
Styrene	"	ND	---	2.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	---	2.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	---	2.00	"	"	"	"	"	
Tetrachloroethene	"	ND	---	2.00	"	"	"	"	"	
Toluene	"	ND	---	2.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	---	2.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	---	2.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	---	2.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	"	"	"	

TestAmerica - Portland, OR



Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-05 (MW7)		Water					Sampled: 07/11/07 14:00			RL1
Trichloroethene	EPA 8260B	ND	---	2.00	ug/l	2x	7070655	07/18/07 10:00	07/18/07 16:19	
Trichlorofluoromethane	"	ND	---	2.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	---	2.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	---	2.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	---	2.00	"	"	"	"	"	
Vinyl chloride	"	ND	---	2.00	"	"	"	"	"	
o-Xylene	"	ND	---	2.00	"	"	"	"	"	
m,p-Xylene	"	ND	---	4.00	"	"	"	"	"	
<i>Surrogate(s): 4-BFB</i>			<i>106%</i>		<i>80 - 120 %</i>	<i>1x</i>				<i>"</i>
<i>1,2-DCA-d4</i>			<i>106%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
<i>Dibromofluoromethane</i>			<i>104%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>110%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>

TestAmerica - Portland, OR

Christina M. Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland	Project Name: ALCOA Port of Vancouver	Report Created:
111 SW Columbia, Suite 1500	Project Number: 25696370	07/27/07 11:58
Portland, OR 97201-5850	Project Manager: Brian McNamara	

Polynuclear Aromatic Compounds per EPA 8270M-SIM
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-01 (MW18I)		Water				Sampled: 07/11/07 16:15				
Acenaphthene	EPA 8270m	ND	---	0.105	ug/l	1x	7070536	07/16/07 12:00	07/18/07 13:45	
Acenaphthylene	"	ND	---	0.105	"	"	"	"	"	
Anthracene	"	ND	---	0.105	"	"	"	"	"	
Benzo (a) anthracene	"	ND	---	0.105	"	"	"	"	"	
Benzo (a) pyrene	"	ND	---	0.105	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	---	0.105	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	---	0.105	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	---	0.105	"	"	"	"	"	
Chrysene	"	ND	---	0.105	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	---	0.211	"	"	"	"	"	
Fluoranthene	"	ND	---	0.105	"	"	"	"	"	
Fluorene	"	ND	---	0.105	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.105	"	"	"	"	"	
Naphthalene	"	ND	---	0.105	"	"	"	"	"	
Phenanthrene	"	ND	---	0.105	"	"	"	"	"	
Pyrene	"	ND	---	0.105	"	"	"	"	"	
<i>Surrogate(s): Fluorene-d10</i>			102%		25 - 125 %	"				"
<i>Pyrene-d10</i>			98.8%		23 - 150 %	"				"
<i>Benzo (a) pyrene-d12</i>			103%		10 - 125 %	"				"

PQG0396-02 (MW49D)		Water				Sampled: 07/11/07 09:40				
Acenaphthene	EPA 8270m	ND	---	0.0980	ug/l	1x	7070536	07/16/07 12:00	07/18/07 14:15	
Acenaphthylene	"	ND	---	0.0980	"	"	"	"	"	
Anthracene	"	ND	---	0.0980	"	"	"	"	"	
Benzo (a) anthracene	"	ND	---	0.0980	"	"	"	"	"	
Benzo (a) pyrene	"	ND	---	0.0980	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	---	0.0980	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	---	0.0980	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	---	0.0980	"	"	"	"	"	
Chrysene	"	ND	---	0.0980	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	---	0.196	"	"	"	"	"	
Fluoranthene	"	0.163	---	0.0980	"	"	"	"	"	
Fluorene	"	ND	---	0.0980	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0980	"	"	"	"	"	
Naphthalene	"	ND	---	0.0980	"	"	"	"	"	
Phenanthrene	"	ND	---	0.0980	"	"	"	"	"	
Pyrene	"	0.158	---	0.0980	"	"	"	"	"	
<i>Surrogate(s): Fluorene-d10</i>			101%		25 - 125 %	"				"
<i>Pyrene-d10</i>			100%		23 - 150 %	"				"
<i>Benzo (a) pyrene-d12</i>			80.9%		10 - 125 %	"				"

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Christina M. Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Polynuclear Aromatic Compounds per EPA 8270M-SIM
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-03 (MW3)		Water				Sampled: 07/11/07 12:41				
Acenaphthene	EPA 8270m	0.119	----	0.0962	ug/l	1x	7070536	07/16/07 12:00	07/18/07 19:19	
Acenaphthylene	"	ND	----	0.0962	"	"	"	"	"	
Anthracene	"	ND	----	0.240	"	"	"	"	"	RLI
Benzo (a) anthracene	"	ND	----	0.0962	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0962	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0962	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0962	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0962	"	"	"	"	"	
Chrysene	"	ND	----	0.0962	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.192	"	"	"	"	"	
Fluoranthene	"	0.622	----	0.0962	"	"	"	"	"	
Fluorene	"	0.433	----	0.0962	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0962	"	"	"	"	"	
Naphthalene	"	ND	----	0.0962	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0962	"	"	"	"	"	
Pyrene	"	0.446	----	0.0962	"	"	"	"	"	
<i>Surrogate(s): Fluorene-d10</i>			72.3%		25 - 125 %	"				
<i>Pyrene-d10</i>			78.3%		23 - 150 %	"				
<i>Benzo (a) pyrene-d12</i>			48.9%		10 - 125 %	"				

PQG0396-04 (MW2)		Water				Sampled: 07/11/07 15:15					RL3
Acenaphthene	EPA 8270m	0.640	----	0.189	ug/l	2x	7070536	07/16/07 12:00	07/18/07 19:49		
Acenaphthylene	"	ND	----	0.189	"	"	"	"	"		
Anthracene	"	ND	----	0.189	"	"	"	"	"		
Benzo (a) anthracene	"	ND	----	0.189	"	"	"	"	"		
Benzo (a) pyrene	"	ND	----	0.189	"	"	"	"	"		
Benzo (b) fluoranthene	"	ND	----	0.189	"	"	"	"	"		
Benzo (ghi) perylene	"	ND	----	0.189	"	"	"	"	"		
Benzo (k) fluoranthene	"	ND	----	0.189	"	"	"	"	"		
Chrysene	"	ND	----	0.189	"	"	"	"	"		
Dibenzo (a,h) anthracene	"	ND	----	0.377	"	"	"	"	"		
Fluoranthene	"	ND	----	0.189	"	"	"	"	"		
Fluorene	"	1.38	----	0.189	"	"	"	"	"		
Indeno (1,2,3-cd) pyrene	"	ND	----	0.189	"	"	"	"	"		
Naphthalene	"	ND	----	0.283	"	"	"	"	"	RLI	
Phenanthrene	"	ND	----	0.189	"	"	"	"	"		
Pyrene	"	ND	----	0.189	"	"	"	"	"		
<i>Surrogate(s): Fluorene-d10</i>			76.2%		25 - 125 %	"					
<i>Pyrene-d10</i>			59.4%		23 - 150 %	"					
<i>Benzo (a) pyrene-d12</i>			28.4%		10 - 125 %	"					

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Christina Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Polynuclear Aromatic Compounds per EPA 8270M-SIM
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-05 (MW7)		Water				Sampled: 07/11/07 14:00				RL3
Acenaphthene	EPA 8270m	ND	—	0.556	ug/l	5x	7070536	07/16/07 12:00	07/18/07 20:19	
Acenaphthylene	"	ND	—	0.556	"	"	"	"	"	
Anthracene	"	ND	—	0.556	"	"	"	"	"	
Benzo (a) anthracene	"	ND	—	0.556	"	"	"	"	"	
Benzo (a) pyrene	"	ND	—	0.556	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	—	0.556	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	—	0.556	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	—	0.556	"	"	"	"	"	
Chrysene	"	ND	—	0.556	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	—	1.11	"	"	"	"	"	
Fluoranthene	"	ND	—	0.556	"	"	"	"	"	
Fluorene	"	ND	—	0.556	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	—	0.556	"	"	"	"	"	
Naphthalene	"	ND	—	0.556	"	"	"	"	"	
Phenanthrene	"	ND	—	0.556	"	"	"	"	"	
Pyrene	"	ND	—	0.556	"	"	"	"	"	
<i>Surrogate(s): Fluorene-d10</i>			75.6%		25 - 125 %	"				"
<i>Pyrene-d10</i>			50.6%		23 - 150 %	"				"
<i>Benzo (a) pyrene-d12</i>			30.8%		10 - 125 %	"				"

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Christina M. Woodcock

Christina Woodcock, Project Manager

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Anions per EPA Method 300.0
TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-03 (MW3)		Water			Sampled: 07/11/07 12:41					
Fluoride	EPA 300.0	0.960	—	0.500	mg/l	1x	7070665	07/18/07 10:29	07/19/07 01:07	
PQG0396-04 (MW2)		Water			Sampled: 07/11/07 15:15					
Fluoride	EPA 300.0	1.44	—	0.500	mg/l	1x	7070665	07/18/07 10:29	07/19/07 01:39	
PQG0396-05 (MW7)		Water			Sampled: 07/11/07 14:00					
Fluoride	EPA 300.0	1.33	—	0.500	mg/l	1x	7070665	07/18/07 10:29	07/19/07 02:11	

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Christina M. Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Total Metals by EPA 200 Series Methods
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-03 (MW3)		Water				Sampled: 07/11/07 12:41				
Antimony	EPA 200.8	ND	---	0.00300	mg/l	1x	7G18050	07/18/07 14:36	07/19/07 23:55	
Arsenic	"	0.00481	---	0.00100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Chromium	"	0.00183	---	0.00100	"	"	"	"	"	
Copper	"	0.00348	---	0.00100	"	"	"	"	"	
Lead	"	ND	---	0.00100	"	"	"	"	"	
Mercury	EPA 245.1	ND	---	0.000200	"	"	7G18067	07/18/07 17:46	07/19/07 15:38	
Nickel	EPA 200.8	0.00371	---	0.00100	"	"	7G18050	07/18/07 14:36	07/19/07 23:55	
Selenium	"	ND	---	0.00100	"	"	"	"	"	
Silver	"	ND	---	0.00100	"	"	"	"	"	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	ND	---	0.0100	"	"	"	"	"	
PQG0396-04 (MW2)		Water				Sampled: 07/11/07 15:15				
Antimony	EPA 200.8	ND	---	0.00300	mg/l	1x	7G18050	07/18/07 14:36	07/20/07 00:13	
Arsenic	"	0.00482	---	0.00100	"	"	"	"	"	
Beryllium	"	ND	---	0.00100	"	"	"	"	"	
Cadmium	"	ND	---	0.00100	"	"	"	"	"	
Chromium	"	0.00263	---	0.00100	"	"	"	"	"	
Copper	"	0.00832	---	0.00100	"	"	"	"	"	
Lead	"	0.00312	---	0.00100	"	"	"	"	"	
Mercury	EPA 245.1	ND	---	0.000200	"	"	7G18067	07/18/07 17:46	07/19/07 15:40	
Nickel	EPA 200.8	0.00334	---	0.00100	"	"	7G18050	07/18/07 14:36	07/20/07 00:13	
Selenium	"	ND	---	0.00100	"	"	"	"	"	
Silver	"	ND	---	0.00100	"	"	"	"	"	
Thallium	"	ND	---	0.00100	"	"	"	"	"	
Zinc	"	0.0179	---	0.0100	"	"	"	"	"	
PQG0396-05 (MW7)		Water				Sampled: 07/11/07 14:00				
Antimony	EPA 200.8	ND	---	0.00300	mg/l	1x	7G18050	07/18/07 14:36	07/20/07 00:19	
Arsenic	"	0.161	---	0.00100	"	"	"	"	"	
Beryllium	"	0.0177	---	0.00100	"	"	"	"	"	
Cadmium	"	0.0777	---	0.00100	"	"	"	"	"	
Chromium	"	0.0157	---	0.00100	"	"	"	"	"	
Copper	"	0.185	---	0.00100	"	"	"	"	"	
Lead	"	0.0164	---	0.00100	"	"	"	"	"	
Mercury	EPA 245.1	ND	---	0.000200	"	"	7G18067	07/18/07 17:46	07/19/07 15:43	
Nickel	EPA 200.8	0.214	---	0.00100	"	"	7G18050	07/18/07 14:36	07/20/07 00:19	
Selenium	"	0.00252	---	0.00100	"	"	"	"	"	
Silver	"	ND	---	0.00100	"	"	"	"	"	

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Christina Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Total Metals by EPA 200 Series Methods
TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0396-05 (MW7)		Water			Sampled: 07/11/07 14:00					
Thallium	EPA 200.8	ND	—	0.00100	mg/l	1x	7G18050	07/18/07 14:36	07/20/07 00:19	
PQG0396-05RE1 (MW7)		Water			Sampled: 07/11/07 14:00					
Zinc	EPA 200.8	1.54	—	0.100	mg/l	10x	7G18050	07/18/07 14:36	07/20/07 10:57	

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Christina Woodcock

Christina Woodcock, Project Manager

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Gasoline Hydrocarbons per NW TPH-Gx Method - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7070616	Water Preparation Method: EPA 5030B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (7070616-BLK1)													Extracted: 07/17/07 11:32			
Gasoline Range Hydrocarbons	NW TPH-Gx	ND	---	80.0	ug/l	1x	--	--	--	--	--	--	07/17/07 12:46			
<i>Surrogate(s): 4-BFB</i>		<i>Recovery: 96.7%</i>		<i>Limits: 50-150%</i>		"						07/17/07 12:46				
LCS (7070616-BS1)													Extracted: 07/17/07 11:32			
Gasoline Range Hydrocarbons	NW TPH-Gx	405	---	80.0	ug/l	1x	--	500	81.0%	(70-130)	--	--	07/17/07 11:56			
<i>Surrogate(s): 4-BFB</i>		<i>Recovery: 106%</i>		<i>Limits: 50-150%</i>		"						07/17/07 11:56				
LCS Dup (7070616-BSD1)													Extracted: 07/17/07 11:32			
Gasoline Range Hydrocarbons	NW TPH-Gx	451	---	80.0	ug/l	1x	--	500	90.1%	(70-130)	10.6%	(35)	07/17/07 12:21			
<i>Surrogate(s): 4-BFB</i>		<i>Recovery: 112%</i>		<i>Limits: 50-150%</i>		"						07/17/07 12:21				
Duplicate (7070616-DUP1)													QC Source: PQG0450-09RE1		Extracted: 07/17/07 11:32	
Gasoline Range Hydrocarbons	NW TPH-Gx	72000	---	4000	ug/l	50x	71500	--	--	--	0.664%	(35)	07/17/07 16:27			
<i>Surrogate(s): 4-BFB</i>		<i>Recovery: 100%</i>		<i>Limits: 50-150%</i>		1x						07/17/07 16:27				

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Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7070560 Water Preparation Method: EPA 3510 Fuels

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7070560-BLK1)										Extracted: 07/16/07 16:30				
Diesel Range Organics	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	07/16/07 21:56	
Heavy Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 73.5%</i>		<i>Limits: 50-150%</i>								<i>07/16/07 21:56</i>		
LCS (7070560-BS1)										Extracted: 07/16/07 16:30				
Diesel Range Organics	NWTPH-Dx	2.58	---	0.250	mg/l	1x	--	2.50	103%	(50-150)	--	--	07/16/07 20:49	
Heavy Oil Range Hydrocarbons	"	1.65	---	0.500	"	"	--	1.51	109%	"	--	--	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 96.8%</i>		<i>Limits: 50-150%</i>								<i>07/16/07 20:49</i>		
LCS Dup (7070560-BSD1)										Extracted: 07/16/07 16:30				
Diesel Range Organics	NWTPH-Dx	2.45	---	0.250	mg/l	1x	--	2.50	98.0%	(50-150)	5.16%	(50)	07/16/07 21:23	
Heavy Oil Range Hydrocarbons	"	1.67	---	0.500	"	"	--	1.51	110%	"	1.35%	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>		<i>Recovery: 93.1%</i>		<i>Limits: 50-150%</i>								<i>07/16/07 21:23</i>		

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Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Extractable Petroleum Hydrocarbons per Washington DOE - Laboratory Quality Control Results
TestAmerica - Portland, OR

QC Batch: 7070688 Water Preparation Method: EPA 3510 Fuels

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7070688-BLK1)													Extracted: 07/18/07 16:20	
C8-C10 Aromatics	WDOE EPH	ND	---	0.0500	mg/l	1x	--	--	--	--	--	--	07/20/07 16:26	
C10-C12 Aromatics	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
C12-C16 Aromatics	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
C16-C21 Aromatics	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
C21-C34 Aromatics	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
C8-C10 Aliphatics	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
C10-C12 Aliphatics	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
C12-C16 Aliphatics	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
C16-C21 Aliphatics	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
C21-C34 Aliphatics	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Surrogate(s): <i>o</i> -Terphenyl		Recovery: 95.7%		Limits: 60-140%		"						07/20/07 16:26		
Squalane		109%		60-140%		"						"		

LCS (7070688-BS1)													Extracted: 07/18/07 16:20	
C8-C10 Aromatics	WDOE EPH	0.0815	---	0.0500	mg/l	1x	--	0.100	81.5%	(50-150)	--	--	07/20/07 15:57	
C10-C12 Aromatics	"	0.0749	---	0.0500	"	"	--	"	74.9%	(70-130)	--	--	"	
C12-C16 Aromatics	"	0.262	---	0.0500	"	"	--	0.300	87.2%	"	--	--	"	
C16-C21 Aromatics	"	0.476	---	0.0500	"	"	--	0.500	95.3%	"	--	--	"	
C21-C34 Aromatics	"	0.695	---	0.0500	"	"	--	0.700	99.4%	"	--	--	"	
C8-C10 Aliphatics	"	0.209	---	0.0500	"	"	--	0.300	69.6%	(50-150)	--	--	"	
C10-C12 Aliphatics	"	0.180	---	0.0500	"	"	--	0.199	90.3%	(70-130)	--	--	"	
C12-C16 Aliphatics	"	0.371	---	0.0500	"	"	--	0.396	93.7%	"	--	--	"	
C16-C21 Aliphatics	"	0.657	---	0.0500	"	"	--	0.698	94.2%	"	--	--	"	
C21-C34 Aliphatics	"	1.22	---	0.0500	"	"	--	1.30	94.2%	"	--	--	"	
Surrogate(s): <i>o</i> -Terphenyl		Recovery: 103%		Limits: 60-140%		"						07/20/07 15:57		
Squalane		97.2%		60-140%		"						"		

LCS Dup (7070688-BSD1)													Extracted: 07/18/07 16:20	
C8-C10 Aromatics	WDOE EPH	0.0731	---	0.0500	mg/l	1x	--	0.100	73.1%	(50-150)	10.9%	(25)	07/20/07 13:03	
C10-C12 Aromatics	"	0.0700	---	0.0500	"	"	--	"	70.0%	(70-130)	6.84%	"	"	
C12-C16 Aromatics	"	0.240	---	0.0500	"	"	--	0.300	80.0%	"	8.65%	"	"	
C16-C21 Aromatics	"	0.444	---	0.0500	"	"	--	0.500	88.8%	"	7.07%	"	"	
C21-C34 Aromatics	"	0.657	---	0.0500	"	"	--	0.700	93.9%	"	5.63%	"	"	
C8-C10 Aliphatics	"	0.192	---	0.0500	"	"	--	0.300	63.9%	(50-150)	8.55%	"	"	
C10-C12 Aliphatics	"	0.168	---	0.0500	"	"	--	0.199	84.4%	(70-130)	6.77%	"	"	
C12-C16 Aliphatics	"	0.358	---	0.0500	"	"	--	0.396	90.4%	"	3.56%	"	"	
C16-C21 Aliphatics	"	0.648	---	0.0500	"	"	--	0.698	92.8%	"	1.52%	"	"	
C21-C34 Aliphatics	"	1.21	---	0.0500	"	"	--	1.30	93.6%	"	0.665%	"	"	
Surrogate(s): <i>o</i> -Terphenyl		Recovery: 94.1%		Limits: 60-140%		"						07/20/07 13:03		

TestAmerica - Portland, OR

Christina Woodcock

Christina Woodcock, Project Manager

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Extractable Petroleum Hydrocarbons per Washington DOE - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7070688 Water Preparation Method: EPA 3510 Fuels

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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LCS Dup (7070688-BSD1) **Extracted: 07/18/07 16:20**

Surrogate(s): Squalane Recovery: 96.3% Limits: 60-140% 1x 07/20/07 13:03

TestAmerica - Portland, OR



Christina Woodcock, Project Manager

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Volatile Petroleum Hydrocarbons per Washington DOE - Laboratory Quality Control Results
TestAmerica - Portland, OR

QC Batch: 7070752	Water Preparation Method: EPA 5030B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7070752-BLK1)													Extracted: 07/19/07 14:14	
C5-C6 Aliphatics	WDOE VPH	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	07/19/07 16:57	
C6-C8 Aliphatics	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
C8-C10 Aliphatics	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
C10-C12 Aliphatics	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
C8-C10 Aromatics	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
C10-C12 Aromatics	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
C12-C13 Aromatics	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Total VPH	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): +BFB (PID)</i>		<i>Recovery: 95.5%</i>		<i>Limits: 70-130%</i>		"								07/19/07 16:57

LCS (7070752-BS1)													Extracted: 07/19/07 14:14	
C5-C6 Aliphatics	WDOE VPH	50.2	---	50.0	ug/l	1x	--	60.0	83.7%	(70-130)	--	--	07/19/07 17:28	
C6-C8 Aliphatics	"	85.1	---	50.0	"	"	--	80.0	106%	"	--	--	"	
C8-C10 Aliphatics	"	87.0	---	50.0	"	"	--	"	109%	"	--	--	"	
C10-C12 Aliphatics	"	44.9	---	50.0	"	"	--	40.0	112%	"	--	--	"	
C8-C10 Aromatics	"	113	---	50.0	"	"	--	100	113%	"	--	--	"	
C10-C12 Aromatics	"	21.2	---	50.0	"	"	--	20.0	106%	"	--	--	"	
C12-C13 Aromatics	"	20.3	---	50.0	"	"	--	"	101%	"	--	--	"	
<i>Surrogate(s): +BFB (PID)</i>		<i>Recovery: 103%</i>		<i>Limits: 70-130%</i>		"								07/19/07 17:28

Matrix Spike (7070752-MS1)													QC Source: PQG0396-05		Extracted: 07/19/07 14:14	
C5-C6 Aliphatics	WDOE VPH	425	---	500	ug/l	10x	ND	600	70.9%	(70-130)	--	--	07/19/07 19:03			
C6-C8 Aliphatics	"	791	---	500	"	"	ND	800	98.9%	"	--	--	"			
C8-C10 Aliphatics	"	844	---	500	"	"	ND	"	106%	"	--	--	"			
C10-C12 Aliphatics	"	492	---	500	"	"	100	400	97.8%	"	--	--	"			
C8-C10 Aromatics	"	1100	---	500	"	"	ND	1000	110%	"	--	--	"			
C10-C12 Aromatics	"	282	---	500	"	"	62.5	200	110%	"	--	--	"			
C12-C13 Aromatics	"	311	---	500	"	"	71.0	"	120%	"	--	--	"			
<i>Surrogate(s): +BFB (PID)</i>		<i>Recovery: 102%</i>		<i>Limits: 70-130%</i>		1x								07/19/07 19:03		

Matrix Spike Dup (7070752-MSD1)													QC Source: PQG0396-05		Extracted: 07/19/07 14:14	
Benzene	WDOE VPH	205	---	5.00	ug/l	10x	ND	200	103%	(65-144)	6.92%	(20)	07/19/07 19:35			
Toluene	"	206	---	5.00	"	"	1.94	"	102%	(68-139)	6.46%	"	"			
Ethylbenzene	"	217	---	5.00	"	"	0.670	"	108%	(69-144)	7.07%	"	"			
Xylenes (total)	"	650	---	10.0	"	"	3.14	600	108%	(60-144)	6.89%	"	"			
C5-C6 Aliphatics	"	421	---	500	"	"	ND	"	70.2%	(70-130)	1.00%	"	"			
C6-C8 Aliphatics	"	814	---	500	"	"	ND	800	102%	"	2.89%	"	"			
C8-C10 Aliphatics	"	858	---	500	"	"	ND	"	107%	"	1.62%	"	"			
C10-C12 Aliphatics	"	494	---	500	"	"	100	400	98.3%	"	0.374%	"	"			

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Christina M. Woodcock

Christina Woodcock, Project Manager

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Volatile Petroleum Hydrocarbons per Washington DOE - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7070752 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (7070752-MSD1)			QC Source: PQG0396-05				Extracted: 07/19/07 14:14							
C8-C10 Aromatics	WDOE VPH	1140	---	500	ug/l	10x	ND	1000	114%	(70-130)	3.83%	(20)	07/19/07 19:35	
C10-C12 Aromatics	"	274	---	500	"	"	62.5	200	106%	"	3.11%	"	"	
C12-C13 Aromatics	"	277	---	500	"	"	71.0	"	103%	"	11.5%	"	"	
<i>Surrogate(s): +BFB (PID)</i>		<i>Recovery: 97.4%</i>		<i>Limits: 70-130%</i>		<i>1x</i>								<i>07/19/07 19:35</i>

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Organochlorine Pesticides per EPA Method 8081A - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7070535 Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7070535-BLK1)													Extracted: 07/16/07 13:15	
Aldrin	EPA 8081A	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	07/23/07 20:11	
alpha-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
beta-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
delta-BHC	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
gamma-BHC (Lindane)	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
gamma-Chlordane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
alpha-Chlordane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chlordane (tech)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
4,4'-DDD	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDE	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4,4'-DDT	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dieldrin	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan I	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan II	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endosulfan sulfate	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin aldehyde	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Endrin ketone	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Heptachlor	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Heptachlor epoxide	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methoxychlor	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Toxaphene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	

Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene Recovery: 93.4% Limits: 16-137% " 07/23/07 20:11

LCS (7070535-BS1)													Extracted: 07/16/07 13:15	
Aldrin	EPA 8081A	0.434	---	0.100	ug/l	1x	--	0.500	86.9%	(43-115)	--	--	07/23/07 20:37	
gamma-BHC (Lindane)	"	0.395	---	0.100	"	"	--	"	79.0%	(61-120)	--	--	"	
4,4'-DDT	"	0.375	---	0.100	"	"	--	"	75.1%	(58-128)	--	--	"	
Dieldrin	"	0.391	---	0.100	"	"	--	"	78.1%	(60-128)	--	--	"	
Endrin	"	0.393	---	0.100	"	"	--	"	78.6%	(68-136)	--	--	"	
Heptachlor	"	0.396	---	0.100	"	"	--	"	79.1%	(49-116)	--	--	"	

Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene Recovery: 81.8% Limits: 16-137% " 07/23/07 20:37

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Christina Woodcock, Project Manager

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Organochlorine Pesticides per EPA Method 8081A - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7070535 Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (7070535-BSD1)								Extracted: 07/16/07 13:15						
Aldrin	EPA 8081A	0.495	---	0.100	ug/l	1x	--	0.500	99.1%	(43-115)	13.1%	(22)	07/23/07 21:02	
gamma-BHC (Lindane)	"	0.450	---	0.100	"	"	--	"	89.9%	(61-120)	12.9%	"	"	
4,4'-DDT	"	0.428	---	0.100	"	"	--	"	85.5%	(58-128)	13.0%	"	"	
Dieldrin	"	0.451	---	0.100	"	"	--	"	90.1%	(60-128)	14.2%	"	"	
Endrin	"	0.442	---	0.100	"	"	--	"	88.4%	(68-136)	11.8%	"	"	
Heptachlor	"	0.445	---	0.100	"	"	--	"	89.1%	(49-116)	11.8%	"	"	
<i>Surrogate(s): 2,4,5,6-Tetrachloro-m-xylene</i>		<i>Recovery: 90.6%</i>		<i>Limits: 16-137%</i>								<i>07/23/07 21:02</i>		

TestAmerica - Portland, OR

Christina M. Woodcock

Christina Woodcock, Project Manager

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Polychlorinated Biphenyls per EPA Method 8082 - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7070535 Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7070535-BLK1)													Extracted: 07/16/07 13:15	
Aroclor 1016	EPA 8082	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	07/23/07 18:09	
Aroclor 1221	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): Decachlorobiphenyl</i>		<i>Recovery: 70.8%</i>		<i>Limits: 12-130%</i>		"								07/23/07 18:09

LCS (7070535-BS2)													Extracted: 07/16/07 13:15	
Aroclor 1016	EPA 8082	5.21	---	0.500	ug/l	1x	--	5.00	104%	(50-114)	--	--	07/23/07 18:27	
Aroclor 1260	"	5.09	---	0.500	"	"	--	"	102%	(8-127)	--	--	"	
<i>Surrogate(s): Decachlorobiphenyl</i>		<i>Recovery: 66.3%</i>		<i>Limits: 12-130%</i>		"								07/23/07 18:27

TestAmerica - Portland, OR

Christina Woodcock

Christina Woodcock, Project Manager

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Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7070655 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7070655-BLK1)													Extracted: 07/18/07 10:00	
Acetone	EPA 8260B	ND	---	25.0	ug/l	1x	--	--	--	--	--	--	07/18/07 13:36	
Benzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Butanone (MEK)	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

TestAmerica - Portland, OR

Christina M. Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7070655	Water Preparation Method: EPA 5030B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7070655-BLK1)													Extracted: 07/18/07 10:00	
Hexachlorobutadiene	EPA 8260B	ND	---	4.00	ug/l	1x	--	--	--	--	--	--	07/18/07 13:36	
2-Hexanone	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i>	<i>4-BFB</i>	<i>Recovery:</i>	<i>107%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>	<i>07/18/07 13:36</i>
	<i>1,2-DCA-d4</i>		<i>107%</i>		<i>80-120%</i>	<i>"</i>	<i>"</i>
	<i>Dibromofluoromethane</i>		<i>107%</i>		<i>80-120%</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>		<i>108%</i>		<i>80-120%</i>	<i>"</i>	<i>"</i>

TestAmerica - Portland, OR

Christina Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Volatile Organic Compounds per EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7070655 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (7070655-BS1)

Extracted: 07/18/07 10:00

Benzene	EPA 8260B	22.5	---	1.00	ug/l	1x	--	20.0	112%	(80-120)	--	--	07/18/07 10:53	
Chlorobenzene	"	22.0	---	1.00	"	"	--	"	110%	(80-124)	--	--	"	
1,1-Dichloroethene	"	23.4	---	1.00	"	"	--	"	117%	(78-120)	--	--	"	
Toluene	"	21.1	---	1.00	"	"	--	"	106%	(80-124)	--	--	"	
Trichloroethene	"	23.1	---	1.00	"	"	--	"	116%	(80-132)	--	--	"	
<i>Surrogate(s): 4-BFB</i>		<i>Recovery:</i>	<i>108%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>07/18/07 10:53</i>	
<i>1,2-DCA-d4</i>			<i>108%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>Dibromofluoromethane</i>			<i>113%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>Toluene-d8</i>			<i>113%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (7070655-MS1)

QC Source: PQG0512-01

Extracted: 07/18/07 10:00

Benzene	EPA 8260B	259	---	10.0	ug/l	10x	37.2	200	111%	(80-124)	--	--	07/18/07 11:20	
Chlorobenzene	"	1800	---	10.0	"	"	1540	"	129%	(72.9-134)	--	--	"	
1,1-Dichloroethene	"	230	---	10.0	"	"	ND	"	115%	(79.3-127)	--	--	"	
Toluene	"	209	---	10.0	"	"	ND	"	104%	(79.7-131)	--	--	"	
Trichloroethene	"	224	---	10.0	"	"	ND	"	112%	(68.4-130)	--	--	"	
<i>Surrogate(s): 4-BFB</i>		<i>Recovery:</i>	<i>108%</i>	<i>Limits: 80-120%</i>		<i>1x</i>							<i>07/18/07 11:20</i>	
<i>1,2-DCA-d4</i>			<i>110%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>Dibromofluoromethane</i>			<i>112%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>Toluene-d8</i>			<i>108%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

Matrix Spike Dup (7070655-MSD1)

QC Source: PQG0512-01

Extracted: 07/18/07 10:00

Benzene	EPA 8260B	265	---	10.0	ug/l	10x	37.2	200	114%	(80-124)	2.21% (25)		07/18/07 11:48	
Chlorobenzene	"	1830	---	10.0	"	"	1540	"	144%	(72.9-134)	1.64%	"	"	M7
1,1-Dichloroethene	"	232	---	10.0	"	"	ND	"	116%	(79.3-127)	0.821%	"	"	
Toluene	"	215	---	10.0	"	"	ND	"	107%	(79.7-131)	2.88%	"	"	
Trichloroethene	"	223	---	10.0	"	"	ND	"	111%	(68.4-130)	0.850%	"	"	
<i>Surrogate(s): 4-BFB</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 80-120%</i>		<i>1x</i>							<i>07/18/07 11:48</i>	
<i>1,2-DCA-d4</i>			<i>110%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>Dibromofluoromethane</i>			<i>114%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>Toluene-d8</i>			<i>110%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

TestAmerica - Portland, OR

Christina M. Woodcock

Christina Woodcock, Project Manager

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Polynuclear Aromatic Compounds per EPA 8270M-SIM - Laboratory Quality Control Results
 TestAmerica - Portland, OR

QC Batch: 7070536 Water Preparation Method: 3520B Liq-Liq

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7070536-BLK1)													Extracted: 07/16/07 12:00	
Acenaphthene	EPA 8270m	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	07/18/07 11:43	
Acenaphthylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): Fluorene-d10</i>		<i>Recovery:</i>	<i>90.7%</i>	<i>Limits:</i>	<i>25-125%</i>	<i>"</i>							<i>07/18/07 11:43</i>	
<i>Pyrene-d10</i>			<i>95.1%</i>		<i>23-150%</i>	<i>"</i>							<i>"</i>	
<i>Benzo (a) pyrene-d12</i>			<i>89.3%</i>		<i>10-125%</i>	<i>"</i>							<i>"</i>	

LCS (7070536-BS1)													Extracted: 07/16/07 12:00	
Acenaphthene	EPA 8270m	2.42	---	0.100	ug/l	1x	--	2.50	96.7%	(26-135)	--	--	07/18/07 12:44	
Benzo (a) pyrene	"	2.65	---	0.100	"	"	--	"	106%	(38-137)	--	--	"	
Pyrene	"	2.47	---	0.100	"	"	--	"	98.8%	(33-133)	--	--	"	
<i>Surrogate(s): Fluorene-d10</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits:</i>	<i>25-125%</i>	<i>"</i>							<i>07/18/07 12:44</i>	
<i>Pyrene-d10</i>			<i>104%</i>		<i>23-150%</i>	<i>"</i>							<i>"</i>	
<i>Benzo (a) pyrene-d12</i>			<i>102%</i>		<i>10-125%</i>	<i>"</i>							<i>"</i>	

LCS Dup (7070536-BSD1)													Extracted: 07/16/07 12:00	
Acenaphthene	EPA 8270m	2.52	---	0.100	ug/l	1x	--	2.50	101%	(26-135)	3.95%	(60)	07/18/07 13:14	
Benzo (a) pyrene	"	2.64	---	0.100	"	"	--	"	106%	(38-137)	0.313%	"	"	
Pyrene	"	2.49	---	0.100	"	"	--	"	99.6%	(33-133)	0.837%	"	"	
<i>Surrogate(s): Fluorene-d10</i>		<i>Recovery:</i>	<i>109%</i>	<i>Limits:</i>	<i>25-125%</i>	<i>"</i>							<i>07/18/07 13:14</i>	
<i>Pyrene-d10</i>			<i>104%</i>		<i>23-150%</i>	<i>"</i>							<i>"</i>	
<i>Benzo (a) pyrene-d12</i>			<i>106%</i>		<i>10-125%</i>	<i>"</i>							<i>"</i>	

TestAmerica - Portland, OR

Christina Woodcock

Christina Woodcock, Project Manager

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Anions per EPA Method 300.0 - Laboratory Quality Control Results

TestAmerica - Portland, OR

QC Batch: 7070665 Water Preparation Method: Wet Chem

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7070665-BLK1)								Extracted: 07/18/07 10:29						
Fluoride	EPA 300.0	ND	---	0.500	mg/l	1x	--	--	--	--	--	--	07/18/07 18:42	
LCS (7070665-BS1)								Extracted: 07/18/07 10:29						
Fluoride	EPA 300.0	3.92	---	0.500	mg/l	1x	--	4.00	98.0%	(90-110)	--	--	07/18/07 18:58	
Duplicate (7070665-DUP1)				QC Source: PQG0519-01				Extracted: 07/18/07 10:29						
Fluoride	EPA 300.0	1.85	---	0.500	mg/l	1x	2.10	--	--	--	12.7%	(20)	07/18/07 19:46	
Matrix Spike (7070665-MS1)				QC Source: PQG0519-01				Extracted: 07/18/07 10:29						
Fluoride	EPA 300.0	4.23	---	0.556	mg/l	1x	2.10	2.22	96.0%	(80-120)	--	--	07/18/07 20:02	
Matrix Spike (7070665-MS2)				QC Source: PQG0548-01				Extracted: 07/18/07 10:29						
Fluoride	EPA 300.0	2.37	---	0.556	mg/l	1x	0.190	2.22	98.0%	(80-120)	--	--	07/19/07 02:59	
Matrix Spike Dup (7070665-MSD1)				QC Source: PQG0519-01				Extracted: 07/18/07 10:29						
Fluoride	EPA 300.0	4.31	---	0.556	mg/l	1x	2.10	2.22	99.5%	(80-120)	1.82%	(20)	07/18/07 20:18	

TestAmerica - Portland, OR

Christina Woodcock

Christina Woodcock, Project Manager

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Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7G18050 Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (7G18050-BLK1)													Extracted: 07/18/07 14:36			
Arsenic	EPA 200.8	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	07/19/07 22:44			
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Beryllium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Selenium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Copper	"	ND	---	0.00100	"	"	--	--	--	--	--	--	07/20/07 10:09			
Thallium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	07/19/07 22:44			
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Nickel	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Antimony	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"			
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
LCS (7G18050-BS1)													Extracted: 07/18/07 14:36			
Antimony	EPA 200.8	0.0593	---	0.00300	mg/l	1x	--	0.0600	98.9%	(85-115)	--	--	07/19/07 23:02			
Thallium	"	0.0713	---	0.00100	"	"	--	0.0800	89.2%	"	--	--	07/23/07 10:02			
Nickel	"	0.0765	---	0.00100	"	"	--	"	95.6%	"	--	--	07/19/07 23:02			
Silver	"	0.0765	---	0.00100	"	"	--	"	95.7%	"	--	--	"			
Arsenic	"	0.0778	---	0.00100	"	"	--	"	97.3%	"	--	--	"			
Beryllium	"	0.0768	---	0.00100	"	"	--	"	96.0%	"	--	--	"			
Cadmium	"	0.0775	---	0.00100	"	"	--	"	96.9%	"	--	--	"			
Chromium	"	0.0765	---	0.00100	"	"	--	"	95.6%	"	--	--	"			
Copper	"	0.0765	---	0.00100	"	"	--	"	95.6%	"	--	--	"			
Zinc	"	0.0792	---	0.0100	"	"	--	"	99.0%	"	--	--	"			
Lead	"	0.0735	---	0.00100	"	"	--	"	91.8%	"	--	--	"			
Selenium	"	0.0767	---	0.00100	"	"	--	"	95.9%	"	--	--	"			
Duplicate (7G18050-DUP1)													QC Source: BQG0318-01		Extracted: 07/18/07 14:36	
Beryllium	EPA 200.8	ND	---	0.00100	mg/l	1x	ND	--	--	--	40.0%	(20)	07/19/07 23:20	R4		
Copper	"	ND	---	0.00100	"	"	ND	--	--	--	3.28%	"	"	R4		
Nickel	"	ND	---	0.00100	"	"	ND	--	--	--	48.6%	"	"	R4		
Selenium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	R4		
Thallium	"	ND	---	0.00100	"	"	ND	--	--	--	"	"	"			
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	6.90%	"	"	R4		
Chromium	"	ND	---	0.00100	"	"	ND	--	--	--	54.8%	"	"	R4		
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	R4		
Silver	"	ND	---	0.00100	"	"	ND	--	--	--	NR	(50)	"	R4		
Arsenic	"	0.0158	---	0.00100	"	"	0.0158	--	--	--	0.0632%	(20)	"			
Antimony	"	ND	---	0.00300	"	"	ND	--	--	--	NR	"	"	R4		

TestAmerica - Portland, OR

Christina Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	-----------------------------------

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7G18050 Water Preparation Method: EPA 200 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Duplicate (7G18050-DUP2) QC Source: BQG0318-01RE1 Extracted: 07/18/07 14:36

Zinc	EPA 200.8	0.902	---	0.0500	mg/l	5x	0.939	--	--	--	3.96% (20)		07/20/07 10:33	
------	-----------	-------	-----	--------	------	----	-------	----	----	----	------------	--	----------------	--

Matrix Spike (7G18050-MS1) QC Source: BQG0318-01 Extracted: 07/18/07 14:36

Silver	EPA 200.8	0.0742	---	0.00100	mg/l	1x	ND	0.0800	92.7%	(75-125)	--	--	07/19/07 23:08	
Arsenic	"	0.0902	---	0.00100	"	"	0.0158	"	93.0%	"	--	--	"	
Nickel	"	0.0746	---	0.00100	"	"	0.000460	"	92.7%	"	--	--	"	
Cadmium	"	0.0740	---	0.00100	"	"	ND	"	92.5%	"	--	--	"	
Lead	"	0.0726	---	0.00100	"	"	0.000150	"	90.6%	"	--	--	"	
Chromium	"	0.0749	---	0.00100	"	"	0.000930	"	92.4%	"	--	--	"	
Copper	"	0.0745	---	0.00100	"	"	0.000310	"	92.8%	"	--	--	"	
Beryllium	"	0.0749	---	0.00100	"	"	0.0000900	"	93.6%	"	--	--	"	
Selenium	"	0.0713	---	0.00100	"	"	ND	"	89.1%	"	--	--	"	
Thallium	"	0.0677	---	0.00100	"	"	ND	"	84.6%	"	--	--	"	
Antimony	"	0.0566	---	0.00300	"	"	ND	0.0600	94.2%	"	--	--	"	

Matrix Spike (7G18050-MS2) QC Source: BQG0318-02 Extracted: 07/18/07 14:36


Arsenic	EPA 200.8	0.0890	---	0.00100	mg/l	1x	0.00912	0.0800	99.9%	(75-125)	--	--	07/19/07 23:14	
Cadmium	"	0.0780	---	0.00100	"	"	ND	"	97.5%	"	--	--	"	
Lead	"	0.0786	---	0.00100	"	"	0.00261	"	95.0%	"	--	--	"	
Chromium	"	0.0799	---	0.00100	"	"	0.00206	"	97.2%	"	--	--	"	
Nickel	"	0.0804	---	0.00100	"	"	0.00268	"	97.2%	"	--	--	"	
Antimony	"	0.0604	---	0.00300	"	"	ND	0.0600	101%	"	--	--	"	
Beryllium	"	0.0806	---	0.00100	"	"	ND	0.0800	101%	"	--	--	"	
Silver	"	0.0785	---	0.00100	"	"	0.000250	"	97.8%	"	--	--	"	
Thallium	"	0.0710	---	0.00100	"	"	ND	"	88.8%	"	--	--	"	
Selenium	"	0.0783	---	0.00100	"	"	ND	"	97.8%	"	--	--	"	
Copper	"	0.0993	---	0.00100	"	"	0.0208	"	98.1%	"	--	--	"	

Matrix Spike (7G18050-MS3) QC Source: BQG0318-01RE1 Extracted: 07/18/07 14:36

Zinc	EPA 200.8	0.893	---	0.0500	mg/l	5x	0.939	0.0800	-57.5%	(75-125)	--	--	07/20/07 10:21	MHA
------	-----------	-------	-----	--------	------	----	-------	--------	--------	----------	----	----	----------------	-----

Matrix Spike (7G18050-MS4) QC Source: BQG0318-02 Extracted: 07/18/07 14:36

Zinc	EPA 200.8	0.389	---	0.0200	mg/l	2x	0.314	0.0800	93.9%	(75-125)	--	--	07/20/07 10:27	
------	-----------	-------	-----	--------	------	----	-------	--------	-------	----------	----	----	----------------	--

TestAmerica - Portland, OR

 Christina Woodcock, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	-----------------------------------

Total Metals by EPA 200 Series Methods - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 7G18067 Water Preparation Method: EPA 7470A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (7G18067-BLK1)													Extracted: 07/18/07 17:46			
Mercury	EPA 245.1	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	07/19/07 14:31			
LCS (7G18067-BS1)													Extracted: 07/18/07 17:46			
Mercury	EPA 245.1	0.00493	---	0.000200	mg/l	1x	--	0.00500	98.6%	(85-115)	--	--	07/19/07 14:33			
LCS Dup (7G18067-BSD1)													Extracted: 07/18/07 17:46			
Mercury	EPA 245.1	0.00485	---	0.000200	mg/l	1x	--	0.00500	96.9%	(85-115)	1.68%	(20)	07/19/07 14:36			
Duplicate (7G18067-DUPI)													QC Source: BQG0267-06		Extracted: 07/18/07 17:46	
Mercury	EPA 245.1	ND	---	0.000200	mg/l	1x	ND	--	--	--	97.6%	(20)	07/19/07 14:54	R4		
Matrix Spike (7G18067-MS1)													QC Source: BQG0267-06		Extracted: 07/18/07 17:46	
Mercury	EPA 245.1	0.00449	---	0.000200	mg/l	1x	0.000140	0.00500	87.0%	(75-125)	--	--	07/19/07 14:38			
Matrix Spike (7G18067-MS2)													QC Source: BQG0319-01		Extracted: 07/18/07 17:46	
Mercury	EPA 245.1	0.00508	---	0.000200	mg/l	1x	0.0000315	0.00500	101%	(75-125)	--	--	07/19/07 14:52			
Matrix Spike Dup (7G18067-MSD1)													QC Source: BQG0267-06		Extracted: 07/18/07 17:46	
Mercury	EPA 245.1	0.00437	---	0.000200	mg/l	1x	0.000140	0.00500	84.5%	(75-125)	2.83%	(20)	07/19/07 14:41			

TestAmerica - Portland, OR

Christina Woodcock

Christina Woodcock, Project Manager

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URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/27/07 11:58
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Notes and Definitions

Report Specific Notes:

- A-01 - Hydrocarbon pattern most closely resembles a blend of oil as well as biogenic interference
- M7 - The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- Q12 - Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.
- Q7 - The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
- Q9 - Hydrocarbon pattern most closely resembles weathered diesel.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- RL1 - Reporting limit raised due to sample matrix effects.
- RL3 - Reporting limit raised due to high concentrations of non-target analytes.
- RL4 - Reporting limit raised due to insufficient sample volume.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica - Portland, OR



Christina Woodcock, Project Manager

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TestAmerica

ANALYTICAL TESTING CORPORATION

CHAIN OF CUSTODY REPORT

1720 N. ... 400, B ... /A 980
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

4 /200
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

U-2410

Work Order #: **PQG 0390**

CLIENT: **Port of Vancouver (P.O.V.)**
 REPORT TO: **Brian McNamara - WRS**
 ADDRESS: **11500 Columbia Site 1500
 Port Harbort C/O 92201**
 PHONE: **469.6348** FAX: **222.4242**

INVOICE TO: **Port of Vancouver**

TURNAROUND REQUEST
 In Business Days *
 Organic & Inorganic Analyses
 Petroleum Hydrocarbon Analyses

OTHER Specify:
 * Turnaround Requests less than standard may incur flash charges.

P.O. NUMBER:
 PROJECT NAME:
 PROJECT NUMBER:
 SAMPLED BY:

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE										REQUESTED ANALYSES	# OF CONT.	LOCATION / COMMENTS	TA W/O ID		
		Metals	PCBs	PCP	PCDD	PCDF	PAHs	PFAS	PHH	PHL	PHI					PHN	PHO
MW18 I	7-11-7 / 1615	X	X	X	X	X	X	X	X	X	X	X	X	X	5		
MW49 D	7-11-7 / 0940	X	X	X	X	X	X	X	X	X	X	X	X	X	5		
MW3	7-11-7 / 1241	X	X	X	X	X	X	X	X	X	X	X	X	X	14		
MW2	7-11-7 / 1515	X	X	X	X	X	X	X	X	X	X	X	X	X	14		sherry strong
MW7	7-11-7 / 1400	X	X	X	X	X	X	X	X	X	X	X	X	X	12		diesel odor

10 RELEASED BY: **Brian McNamara** FIRM: **WRS** DATE: **7-12-7** TIME: **0845** RECEIVED BY: **Seny #77 Joan** DATE: **7-12-07** TIME: **0955**
 PRINT NAME: **Brian McNamara** FIRM: **WRS** PRINT NAME: **Nelga Becerra**
 RELEASED BY: **Seny #77 Joan** DATE: **7-12-07** TIME: **1059** RECEIVED BY: **Helga D.** DATE: **7/12/07** TIME: **1115**
 PRINT NAME: **Seny #77 Joan** FIRM: **WRS** PRINT NAME: **Helga D.**
 ADDITIONAL REMARKS: **A priority pollutant metals**

TestAmerica Sample Receipt Checklist

Cooler (Dis): 9/14
 Work Order No. PPG 0394
 Client: URS
 Project: PORT OF VANCOUVER

Unpacked by: _____
 Logged-in by: _____
 Date: 7-13
 Initials: MP

Received by: _____
 Date: 7/12/07
 Time: 1115
 Initials: CLSD

Temperature out of range:
 No Ice
 Ice Melted
 Within 4 Hours
 Other: _____

***ESI Clients (see Section C)

Cooler Temperature (IR): 0-7 °C plastic Class NA (oil/air samples, ESI client)

A Custody Seals: (# _____) **B**

Signature: Y N Dated: _____
 None

Sample Status:
 (If N circled, see NOD)

Received from:

- TA Courier
- Senvoy
- ___ UPS
- ___ Fed Ex
- ___ Client
- ___ TDP
- ___ DHL
- ___ SDS
- ___ Mid-Valley
- ___ GS/TA
- ___ GS/Senvoy
- ___ Other: _____

Container Type:

- 2 #Cooler(s)
- ___ #Box(s)
- ___ None (___ #Other: _____)

General:

- Intact? Y N
- # Containers Match COC? Y N
- IDs Match COC? Y N

For Analyses Requested:

- Correct Type & Preservation? Y N
- Adequate Volume? Y N
- Within Hold Time? Y N

Coolant Type:

- ___ Gel Ice
- Loose Ice
- ___ None

Packing Material:

- ___ Bubble Bags
- Styrofoam Cubbies
- ___ None (___ Other: _____)

Volatiles:

- VOAs Free of Headspace? Y N
- TB on COC? Y not provided

Metals:

- HNO3 Preserved? Y N SNAPP

C ***ESI Clients Only:

Army Corp:

Geiger (ticks/min): _____

Temperature Blank: _____ °C not provided
 All preserved bottles checked Y N
 All preserved accordingly? Y N (see NOD)
 Temperatures (IR): _____ °C (left) (middle) (right) (air)

Project Managers:

Comments:

PM Reviewed: _____ (Initial/Date)

July 26, 2007

Brian McNamara
URS Corp.-Portland
111 SW Columbia, Suite 1500
Portland, OR 97201-5850

RE: ALCOA Port of Vancouver

Enclosed are the results of analyses for samples received by the laboratory on 07/13/07 12:30.
The following list is a summary of the Work Orders contained in this report, generated on 07/26/07
18:16.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
PQG0449	ALCOA Port of Vancouver	25696370

Sarah Rockwell

Sarah Rockwell For Christina Woodcock, Project Manager



URS Corp.-Portland

111 SW Columbia, Suite 1500
Portland, OR 97201-5850

Project Name: **ALCOA Port of Vancouver**
Project Number: 25696370
Project Manager: Brian McNamara

Report Created:
07/26/07 18:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW19	PQG0449-01	Water	07/12/07 10:30	07/13/07 12:30

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Christina Woodcock, Project Manager



URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/26/07 18:16
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Gasoline Hydrocarbons per NW TPH-Gx Method
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0449-01 (MW19)		Water			Sampled: 07/12/07 10:30					
Gasoline Range Hydrocarbons	NW TPH-Gx	889	----	80.0	ug/l	1x	7070567	07/16/07 13:06	07/16/07 16:50	
<i>Surrogate(s): 4-BFB</i>			101%		50 - 150 %	"				"

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Christina Woodcock, Project Manager



URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name:	ALCOA Port of Vancouver	Report Created: 07/26/07 18:16
	Project Number:	25696370	
	Project Manager:	Brian McNamara	

Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0449-01 (MW19)		Water				Sampled: 07/12/07 10:30				
Diesel Range Organics	NWTPH-Dx	96.2	---	2.38	mg/l	10x	7070576	07/17/07 11:50	07/18/07 11:44	
Heavy Oil Range Hydrocarbons	"	14.8	---	4.76	"	"	"	"	"	
<i>Surrogate(s): 1-Chlorooctadecane</i>			NR		50 - 150 %	"				Z9

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Christina Woodcock, Project Manager



URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/26/07 18:16
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	-----------------------------------

Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0449-01 (MW19)		Water				Sampled: 07/12/07 10:30				
Acetone	EPA 8260B	36.3	---	25.0	ug/l	1x	7070648	07/18/07 08:11	07/18/07 13:40	
Benzene	"	ND	---	1.00	"	"	"	"	"	
Bromobenzene	"	ND	---	1.00	"	"	"	"	"	
Bromochloromethane	"	ND	---	1.00	"	"	"	"	"	
Bromodichloromethane	"	ND	---	1.00	"	"	"	"	"	
Bromoform	"	ND	---	1.00	"	"	"	"	"	
Bromomethane	"	ND	---	5.00	"	"	"	"	"	
2-Butanone (MEK)	"	ND	---	10.0	"	"	"	"	"	
n-Butylbenzene	"	ND	---	5.00	"	"	"	"	"	
sec-Butylbenzene	"	1.20	----	1.00	"	"	"	"	"	
tert-Butylbenzene	"	ND	---	1.00	"	"	"	"	"	
Carbon disulfide	"	ND	---	10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	---	1.00	"	"	"	"	"	
Chlorobenzene	"	ND	---	1.00	"	"	"	"	"	
Chloroethane	"	ND	---	1.00	"	"	"	"	"	
Chloroform	"	ND	---	1.00	"	"	"	"	"	
Chloromethane	"	ND	---	5.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	1.00	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	1.00	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	5.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	1.00	"	"	"	"	"	
Dibromomethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	5.00	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.00	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	1.00	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	1.00	"	"	"	"	"	
Ethylbenzene	"	ND	----	1.00	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	4.00	"	"	"	"	"	
2-Hexanone	"	ND	----	10.0	"	"	"	"	"	
Isopropylbenzene	"	7.39	----	2.00	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	2.00	"	"	"	"	"	

TestAmerica - Portland, OR

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Sarah Rockwell

Sarah Rockwell For Christina Woodcock, Project Manager



URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/26/07 18:16
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------	-----------------------------------

Volatile Organic Compounds per EPA Method 8260B
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0449-01 (MW19)		Water				Sampled: 07/12/07 10:30				
4-Methyl-2-pentanone	EPA 8260B	ND	—	5.00	ug/l	1x	7070648	07/18/07 08:11	07/18/07 13:40	
Methyl tert-butyl ether	"	ND	—	1.00	"	"	"	"	"	
Methylene chloride	"	ND	—	5.00	"	"	"	"	"	
Naphthalene	"	ND	—	2.00	"	"	"	"	"	
n-Propylbenzene	"	8.94	—	1.00	"	"	"	"	"	
Styrene	"	ND	—	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	—	1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	—	1.00	"	"	"	"	"	
Tetrachloroethene	"	ND	—	1.00	"	"	"	"	"	
Toluene	"	1.82	—	1.00	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	—	1.00	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	—	1.00	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	—	1.00	"	"	"	"	"	
Trichloroethene	"	ND	—	1.00	"	"	"	"	"	
Trichlorofluoromethane	"	ND	—	1.00	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	—	1.00	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	—	1.00	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	—	1.00	"	"	"	"	"	
Vinyl chloride	"	ND	—	1.00	"	"	"	"	"	
o-Xylene	"	ND	—	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	—	2.00	"	"	"	"	"	
<i>Surrogate(s): 4-BFB</i>			<i>108%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
<i>1,2-DCA-d4</i>			<i>113%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
<i>Dibromofluoromethane</i>			<i>112%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>110%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>"</i>

TestAmerica - Portland, OR

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

Sarah Rockwell

Sarah Rockwell For Christina Woodcock, Project Manager



URS Corp.-Portland 111 SW Columbia, Suite 1500 Portland, OR 97201-5850	Project Name: ALCOA Port of Vancouver Project Number: 25696370 Project Manager: Brian McNamara	Report Created: 07/26/07 18:16
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Polynuclear Aromatic Compounds per EPA 8270M-SIM
 TestAmerica - Portland, OR

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PQG0449-01 (MW19)		Water			Sampled: 07/12/07 10:30					RL3
Acenaphthene	EPA 8270m	4.17	----	1.94	ug/l	20x	7070536	07/16/07 12:00	07/18/07 17:48	
Acenaphthylene	"	ND	---	1.94	"	"	"	"	"	
Anthracene	"	ND	---	1.94	"	"	"	"	"	
Benzo (a) anthracene	"	ND	---	1.94	"	"	"	"	"	
Benzo (a) pyrene	"	ND	---	1.94	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	---	1.94	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	---	1.94	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	---	1.94	"	"	"	"	"	
Chrysene	"	ND	---	1.94	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	---	3.88	"	"	"	"	"	
Fluoranthene	"	ND	---	1.94	"	"	"	"	"	
Fluorene	"	3.48	---	1.94	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	1.94	"	"	"	"	"	
Naphthalene	"	ND	---	1.94	"	"	"	"	"	
Phenanthrene	"	5.02	---	1.94	"	"	"	"	"	
Pyrene	"	3.32	---	1.94	"	"	"	"	"	
<i>Surrogate(s): Fluorene-d10</i>				65.1%		25 - 125 %	"			"
<i>Pyrene-d10</i>				37.1%		23 - 150 %	"			Z3
<i>Benzo (a) pyrene-d12</i>				23.7%		10 - 125 %	"			Z3

Sarah Rockwell

Sarah Rockwell For Christina Woodcock, Project Manager

