Analytical Resources, Incorporated
Analytical Chemists and Consultants

March 11, 2008

Mr. Leon Lahiere
Hart Crowser, Inc.
5 Centerpointe Dr #240
Lake Oswego, OR 97035

RE: Project: Brix
ARI Job No: MJ78

Dear Mr. Lahiere:

Please find enclosed the original chain of custody documentation and the analytical results for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted four sediment samples on February 21, 2008. The samples were received in good condition at 2.8°. There were no discrepancies between the sample containers' labels and the COC.

The samples were analyzed for PAHs, Phthalates, PCBs, Grain Size and TOC, as requested.

There were no anomalies associated with the samples.

An electronic copy of these reports and the supporting data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Respectfully,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211

Enclosures

cc: files MJ78

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: MJ78	Turn-around Requested: Standard	Page: 1 of 1	
ARI Client Company: Hart Crowser	Phone: 503-620-7284	Date: 2/19/2008	Ice Present? Y
Client Contact: Leon Lahiere	971-327-9103	No. of Coolers: 1	Cooler Temps: 2.0
Client Project Name: Brix			
Client Project #: 15634-00/T8	Samplers: LISA GLONEK		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	TOC EPA 415.1	PAHs EPA 8270M-SIM	PCBs EPA 8082	Phthalates EPA 8270M-SIM	Grain Size ASTM D422				Notes/Comments
CB-A Upper Composite	2/19/2008	14:20	S	3	X	X	X	X	X				
CB-A Lower Composite	2/19/2008	14:25	S	3	X	X	X	X	X				
CB-B Upper Composite	2/19/2008	16:40	S	3	X	X	X	X	X				
CB-B Lower Composite	2/19/2008	16:45	S	3	X	X	X	X	X				

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Lisa Glonek	(Signature) [illegible]	(Signature)	(Signature)
	Printed Name: LISA GLONEK	Printed Name: BRIAN KEUEL	Printed Name:	Printed Name:
	Company: Hart Crowser	Company: ARI	Company:	Company:
	Date & Time: 2/20/2008 1600	Date & Time: 2/21/08 0930	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Hart Crowser
COC No: —
Assigned ARI Job No: MJ78

Project Name: Brix
Delivered by: UPS
Tracking No:

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry	2.8 °C	

Cooler Accepted by: [signature] Date: 2/21/08 Time: 0930

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?	YES	(NO)
What kind of packing material was used?	ICE	
Was sufficient ice used (if appropriate)?	(YES)	NO
Were all bottles sealed in individual plastic bags?	YES	(NO)
Did all bottle arrive in good condition (unbroken)?	(YES)	NO
Were all bottle labels complete and legible?	(YES)	NO
Did all bottle labels and tags agree with custody papers?	(YES)	NO
Were all bottles used correct for the requested analyses?	(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist)	YES	(NO)
Were all VOC vials free of air bubbles? (NA)	YES	NO
Was sufficient amount of sample sent in each bottle?	(YES)	NO

Samples Logged by: Bob Congleton Date: 2/21/08 Time: 1120

***** Notify Project Manager of discrepancies or concerns *****

Explain discrepancies or negative responses:

By: Date:

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: CB-A UPPER COMPOSITE SAMPLE

Lab Sample ID: MJ78A
LIMS ID: 08-3259
Matrix: Sediment
Data Release Authorized:
Reported: 03/13/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Date Extracted: 02/29/08
Date Analyzed: 03/06/08 02:08
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.61 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 43.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	66	< 66 U
91-57-6	2-Methylnaphthalene	66	< 66 U
131-11-3	Dimethylphthalate	66	< 66 U
208-96-8	Acenaphthylene	66	< 66 U
83-32-9	**Acenaphthene**	**66**	**39 J**
132-64-9	**Dibenzofuran**	**66**	**43 J**
84-66-2	Diethylphthalate	66	< 66 U
86-73-7	**Fluorene**	**66**	**54 J**
85-01-8	**Phenanthrene**	**66**	**550**
120-12-7	**Anthracene**	**66**	**100**
84-74-2	Di-n-Butylphthalate	66	< 66 U
206-44-0	**Fluoranthene**	**66**	**1,100**
129-00-0	**Pyrene**	**66**	**710**
85-68-7	Butylbenzylphthalate	66	< 66 U
56-55-3	**Benzo(a)anthracene**	**66**	**240**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**66**	**3,000**
218-01-9	**Chrysene**	**66**	**480**
117-84-0	**Di-n-Octyl phthalate**	**66**	**320**
205-99-2	**Benzo(b)fluoranthene**	**66**	**550**
207-08-9	**Benzo(k)fluoranthene**	**66**	**500**
50-32-8	**Benzo(a)pyrene**	**66**	**420**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**66**	**170**
53-70-3	Dibenz(a,h)anthracene	66	< 66 U
191-24-2	**Benzo(g,h,i)perylene**	**66**	**210**
90-12-0	1-Methylnaphthalene	66	< 66 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	59.6%
2-Fluorobiphenyl	56.8%
d14-p-Terphenyl	56.0%
d4-1,2-Dichlorobenzene	54.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: CB-A LOWER COMPOSITE SAMPLE

Lab Sample ID: MJ78B
LIMS ID: 08-3260
Matrix: Sediment
Data Release Authorized:
Reported: 03/13/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Date Extracted: 02/29/08
Date Analyzed: 03/05/08 09:39
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.59 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 28.0%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	330	< 330 U
91-57-6	2-Methylnaphthalene	330	< 330 U
131-11-3	Dimethylphthalate	330	< 330 U
208-96-8	Acenaphthylene	330	< 330 U
83-32-9	Acenaphthene	330	< 330 U
132-64-9	Dibenzofuran	330	< 330 U
84-66-2	Diethylphthalate	330	< 330 U
86-73-7	Fluorene	330	< 330 U
85-01-8	**Phenanthrene**	**330**	**1,200**
120-12-7	**Anthracene**	**330**	**220 J**
84-74-2	Di-n-Butylphthalate	330	< 330 U
206-44-0	**Fluoranthene**	**330**	**2,400**
129-00-0	**Pyrene**	**330**	**1,600**
85-68-7	Butylbenzylphthalate	330	< 330 U
56-55-3	**Benzo(a)anthracene**	**330**	**920**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**330**	**5,700**
218-01-9	**Chrysene**	**330**	**1,300**
117-84-0	**Di-n-Octyl phthalate**	**330**	**380**
205-99-2	**Benzo(b)fluoranthene**	**330**	**1,200**
207-08-9	**Benzo(k)fluoranthene**	**330**	**1,800**
50-32-8	**Benzo(a)pyrene**	**330**	**1,400**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**330**	**450**
53-70-3	Dibenz(a,h)anthracene	330	< 330 U
191-24-2	**Benzo(g,h,i)perylene**	**330**	**420**
90-12-0	1-Methylnaphthalene	330	< 330 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	67.2%
2-Fluorobiphenyl	75.8%
d14-p-Terphenyl	72.4%
d4-1,2-Dichlorobenzene	68.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: CB-B UPPER COMPOSITE SAMPLE

Lab Sample ID: MJ78C
LIMS ID: 08-3261
Matrix: Sediment
Data Release Authorized:
Reported: 03/13/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Date Extracted: 02/29/08
Date Analyzed: 03/05/08 10:14
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.52 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 42.4%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	330	< 330 U
91-57-6	2-Methylnaphthalene	330	< 330 U
131-11-3	**Dimethylphthalate**	**330**	**250 J**
208-96-8	Acenaphthylene	330	< 330 U
83-32-9	**Acenaphthene**	**330**	**400**
132-64-9	**Dibenzofuran**	**330**	**180 J**
84-66-2	Diethylphthalate	330	< 330 U
86-73-7	**Fluorene**	**330**	**170 J**
85-01-8	**Phenanthrene**	**330**	**1,600**
120-12-7	**Anthracene**	**330**	**240 J**
84-74-2	**Di-n-Butylphthalate**	**330**	**190 J**
206-44-0	**Fluoranthene**	**330**	**3,300**
129-00-0	**Pyrene**	**330**	**1,800**
85-68-7	**Butylbenzylphthalate**	**330**	**1,000**
56-55-3	**Benzo(a)anthracene**	**330**	**830**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**330**	**14,000**
218-01-9	**Chrysene**	**330**	**1,300**
117-84-0	**Di-n-Octyl phthalate**	**330**	**1,200**
205-99-2	**Benzo(b)fluoranthene**	**330**	**1,200**
207-08-9	**Benzo(k)fluoranthene**	**330**	**1,400**
50-32-8	**Benzo(a)pyrene**	**330**	**940**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**330**	**260 J**
53-70-3	Dibenz(a,h)anthracene	330	< 330 U
191-24-2	**Benzo(g,h,i)perylene**	**330**	**260 J**
90-12-0	1-Methylnaphthalene	330	< 330 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.4%
2-Fluorobiphenyl	68.2%
d14-p-Terphenyl	64.6%
d4-1,2-Dichlorobenzene	64.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: CB-B LOWER COMPOSITE SAMPLE

Lab Sample ID: MJ78D
LIMS ID: 08-3262
Matrix: Sediment
Data Release Authorized:
Reported: 03/13/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Date Extracted: 02/29/08
Date Analyzed: 03/05/08 10:50
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 5.92 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 40.9%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	420	< 420 U
91-57-6	2-Methylnaphthalene	420	< 420 U
131-11-3	Dimethylphthalate	420	< 420 U
208-96-8	Acenaphthylene	420	< 420 U
83-32-9	**Acenaphthene**	**420**	**410 J**
132-64-9	**Dibenzofuran**	**420**	**280 J**
84-66-2	Diethylphthalate	420	< 420 U
86-73-7	**Fluorene**	**420**	**580**
85-01-8	**Phenanthrene**	**420**	**4,100**
120-12-7	**Anthracene**	**420**	**650**
84-74-2	**Di-n-Butylphthalate**	**420**	**260 J**
206-44-0	**Fluoranthene**	**420**	**7,500**
129-00-0	**Pyrene**	**420**	**4,500**
85-68-7	**Butylbenzylphthalate**	**420**	**330 J**
56-55-3	**Benzo(a)anthracene**	**420**	**1,800**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**420**	**20,000**
218-01-9	**Chrysene**	**420**	**3,100**
117-84-0	**Di-n-Octyl phthalate**	**420**	**3,500**
205-99-2	**Benzo(b)fluoranthene**	**420**	**3,000**
207-08-9	**Benzo(k)fluoranthene**	**420**	**3,200**
50-32-8	**Benzo(a)pyrene**	**420**	**2,500**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**420**	**700**
53-70-3	Dibenz(a,h)anthracene	420	< 420 U
191-24-2	**Benzo(g,h,i)perylene**	**420**	**710**
90-12-0	1-Methylnaphthalene	420	< 420 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.0%
2-Fluorobiphenyl	74.2%
d14-p-Terphenyl	70.6%
d4-1,2-Dichlorobenzene	71.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: MB-022908
METHOD BLANK

Lab Sample ID: MB-022908
LIMS ID: 08-3259
Matrix: Sediment
Data Release Authorized:
Reported: 03/13/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: NA
Date Received: NA

Date Extracted: 02/29/08
Date Analyzed: 03/04/08 16:56
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	67	< 67 U
91-57-6	2-Methylnaphthalene	67	< 67 U
131-11-3	Dimethylphthalate	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
83-32-9	Acenaphthene	67	< 67 U
132-64-9	Dibenzofuran	67	< 67 U
84-66-2	Diethylphthalate	67	< 67 U
86-73-7	Fluorene	67	< 67 U
85-01-8	Phenanthrene	67	< 67 U
120-12-7	Anthracene	67	< 67 U
84-74-2	Di-n-Butylphthalate	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
85-68-7	Butylbenzylphthalate	67	< 67 U
56-55-3	Benzo(a)anthracene	67	< 67 U
117-81-7	bis(2-Ethylhexyl)phthalate	67	< 67 U
218-01-9	Chrysene	67	< 67 U
117-84-0	Di-n-Octyl phthalate	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.8%
2-Fluorobiphenyl	64.4%
d14-p-Terphenyl	70.0%
d4-1,2-Dichlorobenzene	63.2%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8

Client ID	NBZ	FBP	TPH	DCB	TOT OUT
MB-022908	66.8%	64.4%	70.0%	63.2%	0
LCS-022908	72.0%	71.2%	75.2%	67.6%	0
CB-A UPPER COMPOSI	59.6%	56.8%	56.0%	54.4%	0
CB-A LOWER COMPOSI	67.2%	75.8%	72.4%	68.2%	0
CB-B UPPER COMPOSI	66.4%	68.2%	64.6%	64.4%	0
CB-B LOWER COMPOSI	70.0%	74.2%	70.6%	71.0%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(45-87)	(34-91)
(FBP) = 2-Fluorobiphenyl	(44-91)	(37-94)
(TPH) = d14-p-Terphenyl	(50-111)	(33-106)
(DCB) = d4-1,2-Dichlorobenzene	(38-84)	(35-85)

Prep Method: SW3550B
Log Number Range: 08-3259 to 08-3262

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270D GC/MS

Sample ID: LCS-022908
LAB CONTROL

Lab Sample ID: LCS-022908
LIMS ID: 08-3259
Matrix: Sediment
Data Release Authorized:
Reported: 03/13/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Date Extracted: 02/29/08
Date Analyzed: 03/04/08 17:32
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Naphthalene	1080	1670	64.7%
2-Methylnaphthalene	1130	1670	67.7%
Dimethylphthalate	1210	1670	72.5%
Acenaphthylene	1200	1670	71.9%
Acenaphthene	1110	1670	66.5%
Dibenzofuran	1200	1670	71.9%
Diethylphthalate	1310	1670	78.4%
Fluorene	1260	1670	75.4%
Phenanthrene	1230	1670	73.7%
Anthracene	1260	1670	75.4%
Di-n-Butylphthalate	1430	1670	85.6%
Fluoranthene	1500	1670	89.8%
Pyrene	1130	1670	67.7%
Butylbenzylphthalate	1290	1670	77.2%
Benzo(a)anthracene	1250	1670	74.9%
bis(2-Ethylhexyl)phthalate	1490	1670	89.2%
Chrysene	1240	1670	74.3%
Di-n-Octyl phthalate	1300	1670	77.8%
Benzo(b)fluoranthene	1390	1670	83.2%
Benzo(k)fluoranthene	1430	1670	85.6%
Benzo(a)pyrene	1350	1670	80.8%
Indeno(1,2,3-cd)pyrene	1180	1670	70.7%
Dibenz(a,h)anthracene	1200	1670	71.9%
Benzo(g,h,i)perylene	1100	1670	65.9%
1-Methylnaphthalene	1150	1670	68.9%

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.0%
2-Fluorobiphenyl	71.2%
d14-p-Terphenyl	75.2%
d4-1,2-Dichlorobenzene	67.6%

Results reported in µg/kg

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: CB-A UPPER COMPOSITE SAMPLE

Lab Sample ID: MJ78A
LIMS ID: 08-3259
Matrix: Sediment
Data Release Authorized:
Reported: 03/12/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Date Extracted: 02/22/08
Date Analyzed: 02/27/08 12:35
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No

Percent Moisture: 43.6%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	8.8	< 8.8 U
53469-21-9	Aroclor 1242	8.8	< 8.8 U
12672-29-6	Aroclor 1248	15	< 15 Y
11097-69-1	Aroclor 1254	24	< 24 Y
11096-82-5	**Aroclor 1260**	**8.8**	**20**
11104-28-2	Aroclor 1221	8.8	< 8.8 U
11141-16-5	Aroclor 1232	8.8	< 8.8 U

Reported in μg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	102%
Tetrachlorometaxylene	109%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: CB-A LOWER COMPOSITE SAMPLE

Lab Sample ID: MJ78B
LIMS ID: 08-3260
Matrix: Sediment
Data Release Authorized:
Reported: 03/12/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Date Extracted: 02/22/08
Date Analyzed: 02/27/08 12:52
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No

Percent Moisture: 28.0%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	8.9	< 8.9 U
53469-21-9	Aroclor 1242	8.9	< 8.9 U
12672-29-6	Aroclor 1248	8.9	< 8.9 U
11097-69-1	Aroclor 1254	8.9	< 8.9 U
11096-82-5	**Aroclor 1260**	**8.9**	**11**
11104-28-2	Aroclor 1221	8.9	< 8.9 U
11141-16-5	Aroclor 1232	8.9	< 8.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	116%
Tetrachlorometaxylene	87.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: CB-B UPPER COMPOSITE SAMPLE

Lab Sample ID: MJ78C
LIMS ID: 08-3261
Matrix: Sediment
Data Release Authorized:
Reported: 03/12/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Date Extracted: 02/22/08
Date Analyzed: 02/27/08 13:09
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No

Percent Moisture: 42.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	8.9	< 8.9 U
53469-21-9	Aroclor 1242	8.9	< 8.9 U
12672-29-6	Aroclor 1248	18	< 18 Y
11097-69-1	Aroclor 1254	30	< 30 Y
11096-82-5	**Aroclor 1260**	**8.9**	**27**
11104-28-2	Aroclor 1221	8.9	< 8.9 U
11141-16-5	Aroclor 1232	8.9	< 8.9 U

Reported in μg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	88.5%
Tetrachlorometaxylene	88.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: CB-B LOWER COMPOSITE SAMPLE

Lab Sample ID: MJ78D
LIMS ID: 08-3262
Matrix: Sediment
Data Release Authorized:
Reported: 03/12/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Date Extracted: 02/22/08
Date Analyzed: 02/27/08 13:26
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 3.00
Silica Gel: No

Percent Moisture: 40.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	8.8	< 8.8 U
53469-21-9	Aroclor 1242	8.8	< 8.8 U
12672-29-6	Aroclor 1248	30	< 30 Y
11097-69-1	Aroclor 1254	88	< 88 Y
11096-82-5	**Aroclor 1260**	**8.8**	**38**
11104-28-2	Aroclor 1221	8.8	< 8.8 U
11141-16-5	Aroclor 1232	8.8	< 8.8 U

Reported in μg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	97.5%
Tetrachlorometaxylene	75.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: MB-022208
METHOD BLANK

Lab Sample ID: MB-022208
LIMS ID: 08-3259
Matrix: Sediment
Data Release Authorized:
Reported: 03/12/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: NA
Date Received: NA

Date Extracted: 02/22/08
Date Analyzed: 02/27/08 12:00
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	10	< 10 U
53469-21-9	Aroclor 1242	10	< 10 U
12672-29-6	Aroclor 1248	10	< 10 U
11097-69-1	Aroclor 1254	10	< 10 U
11096-82-5	Aroclor 1260	10	< 10 U
11104-28-2	Aroclor 1221	10	< 10 U
11141-16-5	Aroclor 1232	10	< 10 U

Reported in μg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.0%
Tetrachlorometaxylene	71.5%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOLIDS SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-022208	84.0%	36-130	71.5%	30-119	0
LCS-022208	90.5%	36-130	79.2%	30-119	0
CB-A UPPER COMPOSITE	102%	33-149	109%	32-121	0
CB-A LOWER COMPOSITE	116%	33-149	87.0%	32-121	0
CB-B UPPER COMPOSITE	88.5%	33-149	88.5%	32-121	0
CB-B LOWER COMPOSITE	97.5%	33-149	75.0%	32-121	0

Prep Method: SW3550B
Log Number Range: 08-3259 to 08-3262

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: LCS-022208
LAB CONTROL

Lab Sample ID: LCS-022208
LIMS ID: 08-3259
Matrix: Sediment
Data Release Authorized:
Reported: 03/12/08

QC Report No: MJ78-Hart Crowser, Inc.
Project: Brix
15634-00/T8
Date Sampled: NA
Date Received: NA

Date Extracted: 02/22/08
Date Analyzed: 02/27/08 12:17
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	34.4	50.0	68.8%
Aroclor 1260	46.5	50.0	93.0%

PCB Surrogate Recovery

Decachlorobiphenyl	90.5%
Tetrachlorometaxylene	79.2%

Results reported in μg/kg (ppb)

SAMPLE RESULTS-CONVENTIONALS
MJ78-Hart Crowser, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/27/08

Project: Brix
Event: 15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Client ID: CB-A UPPER COMPOSITE
ARI ID: 08-3259 MJ78A

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/21/08 022108#1	EPA 160.3	Percent	0.01	51.10
Total Organic Carbon	02/25/08 022508#1	Plumb,1981	Percent	0.194	10.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
MJ78-Hart Crowser, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/27/08

Project: Brix
Event: 15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Client ID: CB-A LOWER COMPOSITE
ARI ID: 08-3260 MJ78B

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/21/08 022108#1	EPA 160.3	Percent	0.01	67.20
Total Organic Carbon	02/25/08 022508#1	Plumb,1981	Percent	0.020	5.35

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
MJ78-Hart Crowser, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/27/08

Project: Brix
Event: 15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Client ID: CB-B UPPER COMPOSITE
ARI ID: 08-3261 MJ78C

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/21/08 022108#1	EPA 160.3	Percent	0.01	56.90
Total Organic Carbon	02/25/08 022508#1	Plumb,1981	Percent	0.020	13.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
MJ78-Hart Crowser, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized
Reported: 02/27/08

Project: Brix
Event: 15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Client ID: CB-B LOWER COMPOSITE
ARI ID: 08-3262 MJ78D

Analyte	Date	Method	Units	RL	Sample
Total Solids	02/21/08 022108#1	EPA 160.3	Percent	0.01	46.70
Total Organic Carbon	02/25/08 022508#1	Plumb,1981	Percent	0.020	7.43

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
MJ78-Hart Crowser, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/27/08

Project: Brix
Event: 15634-00/T8
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	02/21/08	Percent	< 0.01 U
Total Organic Carbon	02/25/08	Percent	< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
MJ78-Hart Crowser, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/27/08

Project: Brix
Event: 15634-00/T8
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	02/25/08	Percent	0.530	0.500	106.0%

STANDARD REFERENCE RESULTS-CONVENTIONALS
MJ78-Hart Crowser, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/27/08

Project: Brix
Event: 15634-00/T8
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	02/25/08	Percent	3.46	3.35	103.3%

REPLICATE RESULTS-CONVENTIONALS
MJ78-Hart Crowser, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/27/08

Project: Brix
Event: 15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: MJ78A Client ID: CB-A UPPER COMPOSITE					
Total Solids	02/21/08	Percent	51.10	52.60 50.90	1.8%
Total Organic Carbon	02/25/08	Percent	10.9	9.78 8.77	10.9%

MS/MSD RESULTS-CONVENTIONALS
MJ78-Hart Crowser, Inc.

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 02/27/08

Project: Brix
Event: 15634-00/T8
Date Sampled: 02/19/08
Date Received: 02/21/08

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: MJ78A Client ID: CB-A UPPER COMPOSITE						
Total Organic Carbon	02/25/08	Percent	10.9	21.1	11.1	92.2%

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Client: Hart Crowser, Inc.	Project No.: MJ78
Client Project: Brix 15634-00/T8	

Case Narrative

1. Four samples were submitted for grain size analysis according to PSEP methodology.
2. The samples were run in a single batch and one sample from the batch was chosen for triplicate analysis. The triplicate data is reported on the QA summary.
3. All of the samples contained organic matter, which may have broken down during the sieving process, affecting grain size analysis.
4. Samples CB-a LOWER COMPOSITE and CB-B UPPER COMPOSITE had an oily sheen.
5. The data is provided in summary tables and plots.
6. There were no other noted anomalies in this project.

Approved by: Taylor McKenzie Date: 3-3-08
Title: Lead Technician

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Hart Crowser, Inc.
Brix 15634-00/T8

Apparent Grain Size Distribution Summary
Percent Finer Than Indicated Size

Sample No.	Gravel			Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt				Clay	
Phi Size	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
Sieve Size (microns)	3/8"	#4	#10 (2000)	#18 (1000)	#35 (500)	#60 (250)	#120 (125)	#230 (62)	31.00	15.60	7.80	3.90	2.00	1.00
WE-C(10-12)	100.0	97.1	95.0	93.4	90.9	86.9	79.7	67.0	52.3	37.5	27.7	21.6	16.7	12.5
WE-C(10-12)	100.0	99.5	98.0	95.9	93.3	89.2	81.4	68.3	53.4	37.8	28.4	21.9	17.0	12.9
WE-C(10-12)	100.0	97.3	95.9	93.5	90.2	85.8	77.9	64.5	51.5	36.9	26.8	21.0	16.3	12.0
CB-A UPPER COMPOSITE	100.0	98.5	88.7	64.2	44.0	25.5	17.8	13.6	8.3	3.8	2.1	1.2	0.6	0.5
CB-A LOWER COMPOSITE	100.0	92.2	82.6	69.6	53.1	29.2	19.6	14.2	12.4	7.2	3.8	2.0	1.1	0.6
CB-B UPPER COMPOSITE	100.0	98.9	91.7	69.8	46.1	27.1	17.7	12.7	8.0	3.3	1.8	1.0	0.5	0.4
CB-B LOWER COMPOSITE	100.0	95.1	83.1	64.2	48.1	35.1	26.6	20.6	11.8	5.6	2.6	1.3	0.8	0.5

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

MJ78

Hart Crowser, Inc.
Brix 15634-00/T8

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

Sample No.	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay			Total Fines
Phi Size	> -1	-1 to 0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	< 10	<4
Sieve Size (microns)	> #10 (2000)	10 to 18 (2000-1000)	18-35 (1000-500)	35-60 (500-250)	60-120 (250-125)	120-230 (125-62)	62.5-31.0	31.0-15.6	15.6-7.8	7.8-3.9	3.9-2.0	2.0-1.0	<1.0	<230 (<62)
WE-C(10-12)	5.0	1.6	2.6	4.0	7.2	12.6	14.7	14.9	9.8	6.1	4.9	4.2	12.5	67.0
WE-C(10-12)	2.0	2.1	2.6	4.2	7.8	13.1	14.8	15.6	9.4	6.5	4.9	4.1	12.9	68.3
WE-C(10-12)	4.1	2.4	3.3	4.4	7.8	13.5	13.0	14.6	10.1	5.8	4.6	4.3	12.0	64.5
CB-A UPPER COMPOSITE	11.3	24.5	20.2	18.5	7.7	4.2	5.2	4.5	1.8	0.9	0.5	0.1	0.5	13.6
CB-A LOWER COMPOSITE	17.4	12.9	16.5	24.0	9.6	5.4	1.8	5.2	3.4	1.8	0.9	0.5	0.6	14.2
CB-B UPPER COMPOSITE	8.3	22.0	23.7	19.0	9.4	5.0	4.7	4.7	1.6	0.7	0.5	0.1	0.4	12.7
CB-B LOWER COMPOSITE	16.9	18.9	16.2	13.0	8.5	6.0	8.8	6.2	2.9	1.3	0.5	0.2	0.5	20.6

Notes to the Testing:
1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

MJ78

QA SUMMARY

PROJECT:	Hart Crowser, Inc.	Project No.:	Brix 15634-00/T8
ARI Triplicate Sample ID:	MJ24 D	Batch No.:	MJ78 -1
Client Triplicate Sample ID:	WE-C(10-12)	Page:	1 of 1

Relative Standard Deviation, By Phi Size

Sample ID	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
WE-C(10-12)	100.0	97.1	95.0	93.4	90.9	86.9	79.7	67.0	52.3	37.5	27.7	21.6	16.7	12.5
WE-C(10-12)	100.0	99.5	98.0	95.9	93.3	89.2	81.4	68.3	53.4	37.8	28.4	21.9	17.0	12.9
WE-C(10-12)	100.0	97.3	95.9	93.5	90.2	85.8	77.9	64.5	51.5	36.9	26.8	21.0	16.3	12.0
AVE	NA	97.98	96.31	94.28	91.47	87.28	79.68	66.60	52.43	37.40	27.64	21.47	16.67	12.46
STDEV	NA	1.35	1.55	1.41	1.65	1.74	1.73	1.93	0.95	0.43	0.81	0.46	0.34	0.41
%RSD	NA	1.38	1.61	1.49	1.81	1.99	2.17	2.90	1.82	1.14	2.94	2.16	2.04	3.29

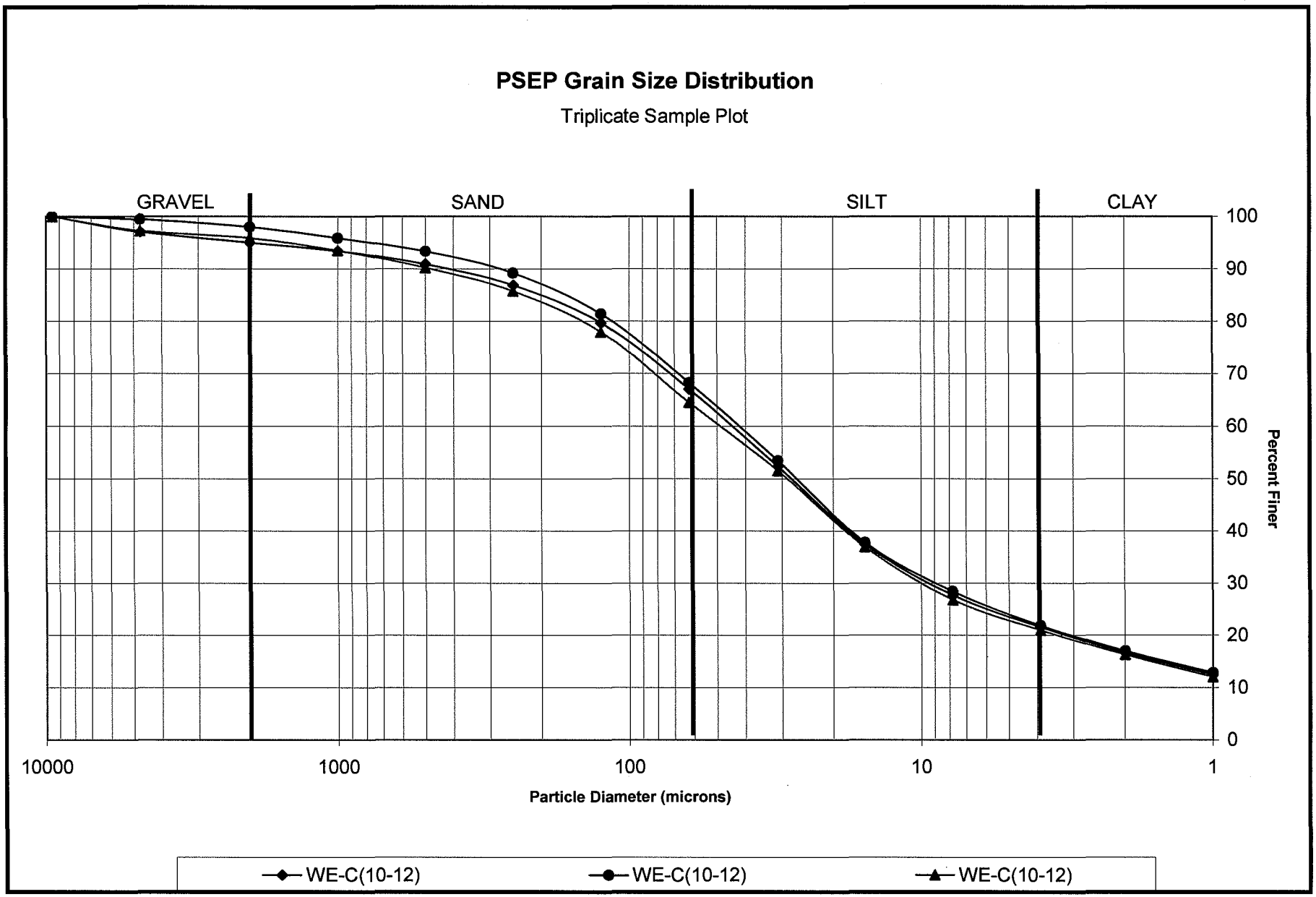
The Triplicate Applies To The Following Samples

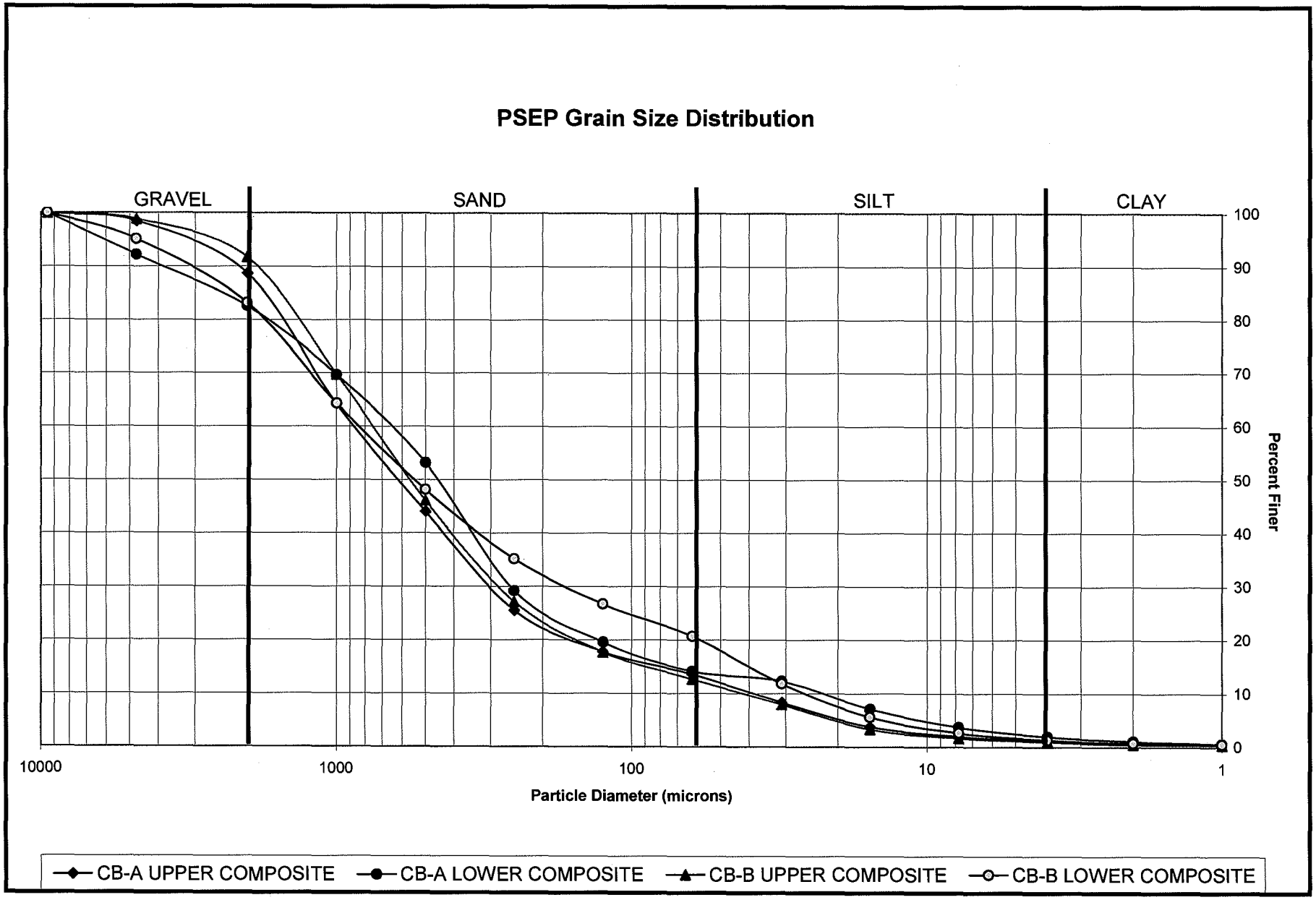
Client ID	Date Sampled	Date Extracted	Date Complete	QA Ratio (95-105)	Data Qualifiers	Pipette Portion (5.0-25.0g)
WE-C(10-12)	2/12/2008	2/20/2008	2/27/2008	99.9		20.8
WE-C(10-12)	2/12/2008	2/20/2008	2/27/2008	101.0		20.9
WE-C(10-12)	2/12/2008	2/20/2008	2/27/2008	99.0		18.9
CB-A UPPER COMPOSITE	2/19/2008	2/26/2008	2/29/2008	100.8		6.1
CB-A LOWER COMPOSITE	2/19/2008	2/26/2008	2/29/2008	97.7		6.3
CB-B UPPER COMPOSITE	2/19/2008	2/26/2008	2/29/2008	101.2		5.4
CB-B LOWER COMPOSITE	2/19/2008	2/26/2008	2/29/2008	100.5		6.6

* ARI Internal QA limits = 95-105%

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.


PSEP Grain Size Distribution
Triplicate Sample Plot
GRAVEL
SAND
SILT
CLAY
100
90
80
70
60
50
40
30
20
10
0
Percent Finer
10000
1000
100
10
1
Particle Diameter (microns)
WE-C(10-12)
WE-C(10-12)
WE-C(10-12)


PSEP Grain Size Distribution
GRAVEL
SAND
SILT
CLAY
100
90
80
70
60
50
40
30
20
10
0
Percent Finer
10000
1000
100
10
1
Particle Diameter (microns)
CB-A UPPER COMPOSITE
CB-A LOWER COMPOSITE
CB-B UPPER COMPOSITE
CB-B LOWER COMPOSITE

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Est. 1970

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240

Lake Oswego, OR 97035

Report Summary

Monday March 03, 2008

Report Number: L332816
Samples Received: 02/21/08
Client Project: 15634-00/T8

Description: Brix Maritime

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jarred Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-01

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-A1 UPPER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 10:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/kg	8260B	02/24/08	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	02/24/08	1
Benzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromoform	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromomethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chloroethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/kg	8260B	02/24/08	1
Chloroform	BDL	0.0050	mg/kg	8260B	02/24/08	1
Chloromethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Dichlorodifluoromethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	02/24/08	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Hexachlorobutadiene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	02/24/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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Est. 1970

REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-01

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-A1 UPPER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 10:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methylene Chloride	BDL	0.0050	mg/kg	8260B	02/24/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	02/24/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	02/24/08	1
Naphthalene	BDL	0.0050	mg/kg	8260B	02/24/08	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Styrene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/kg	8260B	02/24/08	1
Tetrachloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Toluene	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Trichlorofluoromethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	02/24/08	1
Xylenes, Total	BDL	0.0030	mg/kg	8260B	02/24/08	1
Surrogate Recovery						
Toluene-d8	93.8		% Rec.	8260B	02/24/08	1
Dibromofluoromethane	104.		% Rec.	8260B	02/24/08	1
4-Bromofluorobenzene	82.1		% Rec.	8260B	02/24/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-02

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-A1 LOWER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 10:36

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/kg	8260B	02/26/08	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	02/26/08	1
Benzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
Bromoform	BDL	0.0010	mg/kg	8260B	02/26/08	1
Bromomethane	BDL	0.0050	mg/kg	8260B	02/26/08	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	02/26/08	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
Chloroethane	BDL	0.0050	mg/kg	8260B	02/26/08	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/kg	8260B	02/26/08	1
Chloroform	BDL	0.0050	mg/kg	8260B	02/26/08	1
Chloromethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/26/08	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/kg	8260B	02/26/08	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Dichlorodifluoromethane	BDL	0.0050	mg/kg	8260B	02/26/08	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/26/08	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/26/08	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/26/08	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/26/08	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/26/08	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/26/08	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	02/26/08	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Hexachlorobutadiene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	02/26/08	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	02/26/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-02

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-A1 LOWER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 10:36

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methylene Chloride	BDL	0.0050	mg/kg	8260B	02/26/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	02/26/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	02/26/08	1
Naphthalene	BDL	0.0050	mg/kg	8260B	02/26/08	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Styrene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/kg	8260B	02/26/08	1
Tetrachloroethene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Toluene	BDL	0.0050	mg/kg	8260B	02/26/08	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Trichlorofluoromethane	BDL	0.0050	mg/kg	8260B	02/26/08	1
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	02/26/08	1
Xylenes, Total	BDL	0.0030	mg/kg	8260B	02/26/08	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	02/26/08	1
Dibromofluoromethane	125.		% Rec.	8260B	02/26/08	1
4-Bromofluorobenzene	81.9		% Rec.	8260B	02/26/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-03

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-A2 UPPER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 13:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/kg	8260B	02/24/08	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	02/24/08	1
Benzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromoform	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromomethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chloroethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/kg	8260B	02/24/08	1
Chloroform	BDL	0.0050	mg/kg	8260B	02/24/08	1
Chloromethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Dichlorodifluoromethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	02/24/08	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Hexachlorobutadiene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	02/24/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-03

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-A2 UPPER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 13:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methylene Chloride	BDL	0.0050	mg/kg	8260B	02/24/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	02/24/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	02/24/08	1
Naphthalene	BDL	0.0050	mg/kg	8260B	02/24/08	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Styrene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/kg	8260B	02/24/08	1
Tetrachloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Toluene	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Trichlorofluoromethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	02/24/08	1
Xylenes, Total	BDL	0.0030	mg/kg	8260B	02/24/08	1
Surrogate Recovery						
Toluene-d8	92.9		% Rec.	8260B	02/24/08	1
Dibromofluoromethane	103.		% Rec.	8260B	02/24/08	1
4-Bromofluorobenzene	76.2		% Rec.	8260B	02/24/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Est. 1970

REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-04

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-A2 LOWER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 13:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	0.087	0.050	mg/kg	8260B	02/29/08	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	02/29/08	1
Benzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	02/29/08	1
Bromoform	BDL	0.0010	mg/kg	8260B	02/29/08	1
Bromomethane	BDL	0.0050	mg/kg	8260B	02/29/08	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	02/29/08	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	02/29/08	1
Chloroethane	BDL	0.0050	mg/kg	8260B	02/29/08	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/kg	8260B	02/29/08	1
Chloroform	BDL	0.0050	mg/kg	8260B	02/29/08	1
Chloromethane	BDL	0.0010	mg/kg	8260B	02/29/08	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/29/08	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/kg	8260B	02/29/08	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	02/29/08	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
Dichlorodifluoromethane	BDL	0.0050	mg/kg	8260B	02/29/08	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/29/08	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/29/08	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/29/08	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/29/08	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/29/08	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/29/08	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	02/29/08	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
Hexachlorobutadiene	BDL	0.0010	mg/kg	8260B	02/29/08	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
p-Isopropyltoluene	0.013	0.0010	mg/kg	8260B	02/29/08	1
2-Butanone (MEK)	0.024	0.010	mg/kg	8260B	02/29/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-04

Site ID :

Project # : 15634-00/T8

Date Received : February 21, 2008
Description : Brix

Sample ID : CB-A2 LOWER

Collected By : Lisa Glonek
Collection Date : 02/19/08 13:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methylene Chloride	BDL	0.0050	mg/kg	8260B	02/29/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	02/29/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	02/29/08	1
Naphthalene	BDL	0.0050	mg/kg	8260B	02/29/08	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
Styrene	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/kg	8260B	02/29/08	1
Tetrachloroethene	BDL	0.0010	mg/kg	8260B	02/29/08	1
Toluene	1.4	0.28	mg/kg	8260B	02/29/08	56.5
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/29/08	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	02/29/08	1
Trichlorofluoromethane	BDL	0.0050	mg/kg	8260B	02/29/08	1
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/29/08	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	02/29/08	1
Xylenes, Total	BDL	0.0030	mg/kg	8260B	02/29/08	1
Surrogate Recovery						
Toluene-d8	99.8		% Rec.	8260B	02/29/08	1
Dibromofluoromethane	101.		% Rec.	8260B	02/29/08	1
4-Bromofluorobenzene	96.0		% Rec.	8260B	02/29/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-05

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-A3 UPPER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	6.0	mg/kg	8260B	02/24/08	119
Acrylonitrile	BDL	1.2	mg/kg	8260B	02/24/08	119
Benzene	BDL	0.12	mg/kg	8260B	02/24/08	119
Bromobenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
Bromodichloromethane	BDL	0.12	mg/kg	8260B	02/24/08	119
Bromoform	BDL	0.12	mg/kg	8260B	02/24/08	119
Bromomethane	BDL	0.60	mg/kg	8260B	02/24/08	119
n-Butylbenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
sec-Butylbenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
tert-Butylbenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
Carbon tetrachloride	BDL	0.12	mg/kg	8260B	02/24/08	119
Chlorobenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
Chlorodibromomethane	BDL	0.12	mg/kg	8260B	02/24/08	119
Chloroethane	BDL	0.60	mg/kg	8260B	02/24/08	119
2-Chloroethyl vinyl ether	BDL	6.0	mg/kg	8260B	02/24/08	119
Chloroform	BDL	0.60	mg/kg	8260B	02/24/08	119
Chloromethane	BDL	0.12	mg/kg	8260B	02/24/08	119
2-Chlorotoluene	BDL	0.12	mg/kg	8260B	02/24/08	119
4-Chlorotoluene	BDL	0.12	mg/kg	8260B	02/24/08	119
1,2-Dibromo-3-Chloropropane	BDL	0.60	mg/kg	8260B	02/24/08	119
1,2-Dibromoethane	BDL	0.12	mg/kg	8260B	02/24/08	119
Dibromomethane	BDL	0.12	mg/kg	8260B	02/24/08	119
1,2-Dichlorobenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
1,3-Dichlorobenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
1,4-Dichlorobenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
Dichlorodifluoromethane	BDL	0.60	mg/kg	8260B	02/24/08	119
1,1-Dichloroethane	BDL	0.12	mg/kg	8260B	02/24/08	119
1,2-Dichloroethane	BDL	0.12	mg/kg	8260B	02/24/08	119
1,1-Dichloroethene	BDL	0.12	mg/kg	8260B	02/24/08	119
cis-1,2-Dichloroethene	BDL	0.12	mg/kg	8260B	02/24/08	119
trans-1,2-Dichloroethene	BDL	0.12	mg/kg	8260B	02/24/08	119
1,2-Dichloropropane	BDL	0.12	mg/kg	8260B	02/24/08	119
1,1-Dichloropropene	BDL	0.12	mg/kg	8260B	02/24/08	119
1,3-Dichloropropane	BDL	0.12	mg/kg	8260B	02/24/08	119
cis-1,3-Dichloropropene	BDL	0.12	mg/kg	8260B	02/24/08	119
trans-1,3-Dichloropropene	BDL	0.12	mg/kg	8260B	02/24/08	119
2,2-Dichloropropane	BDL	0.12	mg/kg	8260B	02/24/08	119
Di-isopropyl ether	BDL	0.12	mg/kg	8260B	02/24/08	119
Ethylbenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
Hexachlorobutadiene	BDL	0.12	mg/kg	8260B	02/24/08	119
Isopropylbenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
p-Isopropyltoluene	BDL	0.12	mg/kg	8260B	02/24/08	119
2-Butanone (MEK)	BDL	1.2	mg/kg	8260B	02/24/08	119

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L332816-05 (V8260) - Target compounds too high to run at a lower dilution.

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-05

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-A3 UPPER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methylene Chloride	BDL	0.60	mg/kg	8260B	02/24/08	119
4-Methyl-2-pentanone (MIBK)	BDL	1.2	mg/kg	8260B	02/24/08	119
Methyl tert-butyl ether	BDL	0.12	mg/kg	8260B	02/24/08	119
Naphthalene	BDL	0.60	mg/kg	8260B	02/24/08	119
n-Propylbenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
Styrene	BDL	0.12	mg/kg	8260B	02/24/08	119
1,1,1,2-Tetrachloroethane	BDL	0.12	mg/kg	8260B	02/24/08	119
1,1,2,2-Tetrachloroethane	BDL	0.12	mg/kg	8260B	02/24/08	119
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.12	mg/kg	8260B	02/24/08	119
Tetrachloroethene	BDL	0.12	mg/kg	8260B	02/24/08	119
Toluene	5.5	0.60	mg/kg	8260B	02/24/08	119
1,2,3-Trichlorobenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
1,2,4-Trichlorobenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
1,1,1-Trichloroethane	BDL	0.12	mg/kg	8260B	02/24/08	119
1,1,2-Trichloroethane	BDL	0.12	mg/kg	8260B	02/24/08	119
Trichloroethene	BDL	0.12	mg/kg	8260B	02/24/08	119
Trichlorofluoromethane	BDL	0.60	mg/kg	8260B	02/24/08	119
1,2,3-Trichloropropane	BDL	0.12	mg/kg	8260B	02/24/08	119
1,2,4-Trimethylbenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
1,2,3-Trimethylbenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
1,3,5-Trimethylbenzene	BDL	0.12	mg/kg	8260B	02/24/08	119
Vinyl chloride	BDL	0.12	mg/kg	8260B	02/24/08	119
Xylenes, Total	BDL	0.36	mg/kg	8260B	02/24/08	119
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	02/24/08	119
Dibromofluoromethane	102.		% Rec.	8260B	02/24/08	119
4-Bromofluorobenzene	93.3		% Rec.	8260B	02/24/08	119

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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L332816-05 (V8260) - Target compounds too high to run at a lower dilution.

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-06

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-A3 LOWER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 14:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/kg	8260B	02/24/08	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	02/24/08	1
Benzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromoform	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromomethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chloroethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/kg	8260B	02/24/08	1
Chloroform	BDL	0.0050	mg/kg	8260B	02/24/08	1
Chloromethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Dichlorodifluoromethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	02/24/08	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Hexachlorobutadiene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
p-Isopropyltoluene	0.0018	0.0010	mg/kg	8260B	02/24/08	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	02/24/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-06

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-A3 LOWER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 14:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methylene Chloride	BDL	0.0050	mg/kg	8260B	02/24/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	02/24/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	02/24/08	1
Naphthalene	BDL	0.0050	mg/kg	8260B	02/24/08	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Styrene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/kg	8260B	02/24/08	1
Tetrachloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Toluene	0.0060	0.0050	mg/kg	8260B	02/24/08	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Trichlorofluoromethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	02/24/08	1
Xylenes, Total	BDL	0.0030	mg/kg	8260B	02/24/08	1
Surrogate Recovery						
Toluene-d8	97.2		% Rec.	8260B	02/24/08	1
Dibromofluoromethane	107.		% Rec.	8260B	02/24/08	1
4-Bromofluorobenzene	84.1		% Rec.	8260B	02/24/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-07

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-B1 UPPER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 15:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	0.50	0.050	mg/kg	8260B	02/26/08	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	02/26/08	1
Benzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
Bromoform	BDL	0.0010	mg/kg	8260B	02/26/08	1
Bromomethane	BDL	0.0050	mg/kg	8260B	02/26/08	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	02/26/08	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
Chloroethane	BDL	0.0050	mg/kg	8260B	02/26/08	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/kg	8260B	02/26/08	1
Chloroform	BDL	0.0050	mg/kg	8260B	02/26/08	1
Chloromethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/26/08	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/kg	8260B	02/26/08	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Dichlorodifluoromethane	BDL	0.0050	mg/kg	8260B	02/26/08	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/26/08	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/26/08	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/26/08	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/26/08	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/26/08	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/26/08	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	02/26/08	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Hexachlorobutadiene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
p-Isopropyltoluene	0.0039	0.0010	mg/kg	8260B	02/26/08	1
2-Butanone (MEK)	0.21	0.010	mg/kg	8260B	02/26/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-07

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-B1 UPPER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 15:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methylene Chloride	BDL	0.0050	mg/kg	8260B	02/26/08	1
4-Methyl-2-pentanone (MIBK)	0.012	0.010	mg/kg	8260B	02/26/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	02/26/08	1
Naphthalene	0.0055	0.0050	mg/kg	8260B	02/26/08	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Styrene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/kg	8260B	02/26/08	1
Tetrachloroethene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Toluene	1.3	0.27	mg/kg	8260B	02/28/08	54
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/26/08	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Trichlorofluoromethane	BDL	0.0050	mg/kg	8260B	02/26/08	1
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,2,4-Trimethylbenzene	0.0013	0.0010	mg/kg	8260B	02/26/08	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/26/08	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	02/26/08	1
Xylenes, Total	BDL	0.0030	mg/kg	8260B	02/26/08	1
Surrogate Recovery						
Toluene-d8	96.8		% Rec.	8260B	02/26/08	1
Dibromofluoromethane	124.		% Rec.	8260B	02/26/08	1
4-Bromofluorobenzene	87.4		% Rec.	8260B	02/26/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-08

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-B1 LOWER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	0.24	0.050	mg/kg	8260B	02/24/08	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	02/24/08	1
Benzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromoform	BDL	0.0010	mg/kg	8260B	02/24/08	1
Bromomethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
n-Butylbenzene	0.0014	0.0010	mg/kg	8260B	02/24/08	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Chloroethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/kg	8260B	02/24/08	1
Chloroform	BDL	0.0050	mg/kg	8260B	02/24/08	1
Chloromethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Dichlorodifluoromethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	02/24/08	1
Ethylbenzene	0.0014	0.0010	mg/kg	8260B	02/24/08	1
Hexachlorobutadiene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
p-Isopropyltoluene	0.0022	0.0010	mg/kg	8260B	02/24/08	1
2-Butanone (MEK)	0.012	0.010	mg/kg	8260B	02/24/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-08

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-B1 LOWER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 16:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methylene Chloride	BDL	0.0050	mg/kg	8260B	02/24/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	02/24/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	02/24/08	1
Naphthalene	0.0067	0.0050	mg/kg	8260B	02/24/08	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Styrene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/kg	8260B	02/24/08	1
Tetrachloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Toluene	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1
Trichlorofluoromethane	BDL	0.0050	mg/kg	8260B	02/24/08	1
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1
1,2,4-Trimethylbenzene	0.0078	0.0010	mg/kg	8260B	02/24/08	1
1,2,3-Trimethylbenzene	0.0089	0.0010	mg/kg	8260B	02/24/08	1
1,3,5-Trimethylbenzene	0.0024	0.0010	mg/kg	8260B	02/24/08	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	02/24/08	1
Xylenes, Total	0.0043	0.0030	mg/kg	8260B	02/24/08	1
Surrogate Recovery						
Toluene-d8	94.3		% Rec.	8260B	02/24/08	1
Dibromofluoromethane	121.		% Rec.	8260B	02/24/08	1
4-Bromofluorobenzene	58.5		% Rec.	8260B	02/24/08	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-09

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-B2 UPPER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 16:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	0.42	0.051	mg/kg	8260B	02/24/08	1.01
Acrylonitrile	BDL	0.010	mg/kg	8260B	02/24/08	1.01
Benzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Bromobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Bromoform	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Bromomethane	BDL	0.0051	mg/kg	8260B	02/24/08	1.01
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Chlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Chloroethane	BDL	0.0051	mg/kg	8260B	02/24/08	1.01
2-Chloroethyl vinyl ether	BDL	0.051	mg/kg	8260B	02/24/08	1.01
Chloroform	BDL	0.0051	mg/kg	8260B	02/24/08	1.01
Chloromethane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,2-Dibromo-3-Chloropropane	BDL	0.0051	mg/kg	8260B	02/24/08	1.01
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Dibromomethane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Dichlorodifluoromethane	BDL	0.0051	mg/kg	8260B	02/24/08	1.01
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Ethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Hexachlorobutadiene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
p-Isopropyltoluene	0.0065	0.0010	mg/kg	8260B	02/24/08	1.01
2-Butanone (MEK)	0.099	0.010	mg/kg	8260B	02/24/08	1.01

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03, 2008

ESC Sample # : L332816-09

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-B2 UPPER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 16:20

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methylene Chloride	BDL	0.0051	mg/kg	8260B	02/24/08	1.01
4-Methyl-2-pentanone (MIBK)	0.011	0.010	mg/kg	8260B	02/24/08	1.01
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Naphthalene	BDL	0.0051	mg/kg	8260B	02/24/08	1.01
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Styrene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Tetrachloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Toluene	BDL	0.0051	mg/kg	8260B	02/24/08	1.01
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Trichloroethene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Trichlorofluoromethane	BDL	0.0051	mg/kg	8260B	02/24/08	1.01
1,2,3-Trichloropropane	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
1,2,3-Trimethylbenzene	0.0069	0.0010	mg/kg	8260B	02/24/08	1.01
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Vinyl chloride	BDL	0.0010	mg/kg	8260B	02/24/08	1.01
Xylenes, Total	0.0085	0.0030	mg/kg	8260B	02/24/08	1.01
Surrogate Recovery						
Toluene-d8	93.9		% Rec.	8260B	02/24/08	1.01
Dibromofluoromethane	116.		% Rec.	8260B	02/24/08	1.01
4-Bromofluorobenzene	65.1		% Rec.	8260B	02/24/08	1.01

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03,2008

ESC Sample # : L332816-10

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-B2 LOWER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 16:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	0.12	0.058	mg/kg	8260B	02/24/08	1.15
Acrylonitrile	BDL	0.012	mg/kg	8260B	02/24/08	1.15
Benzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Bromobenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Bromoform	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Bromomethane	BDL	0.0058	mg/kg	8260B	02/24/08	1.15
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Carbon tetrachloride	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Chlorobenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Chloroethane	BDL	0.0058	mg/kg	8260B	02/24/08	1.15
2-Chloroethyl vinyl ether	BDL	0.058	mg/kg	8260B	02/24/08	1.15
Chloroform	BDL	0.0058	mg/kg	8260B	02/24/08	1.15
Chloromethane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,2-Dibromo-3-Chloropropane	BDL	0.0058	mg/kg	8260B	02/24/08	1.15
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Dibromomethane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Dichlorodifluoromethane	BDL	0.0058	mg/kg	8260B	02/24/08	1.15
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Ethylbenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Hexachlorobutadiene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
p-Isopropyltoluene	0.0095	0.0012	mg/kg	8260B	02/24/08	1.15
2-Butanone (MEK)	BDL	0.012	mg/kg	8260B	02/24/08	1.15

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03,2008

ESC Sample # : L332816-10

Date Received : February 21, 2008
Description : Brix

Site ID :

Sample ID : CB-B2 LOWER

Project # : 15634-00/T8

Collected By : Lisa Glonek
Collection Date : 02/19/08 16:25

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Methylene Chloride	BDL	0.0058	mg/kg	8260B	02/24/08	1.15
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	02/24/08	1.15
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Naphthalene	BDL	0.0058	mg/kg	8260B	02/24/08	1.15
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Styrene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Tetrachloroethene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Toluene	3.0	0.29	mg/kg	8260B	02/26/08	58
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Trichloroethene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Trichlorofluoromethane	BDL	0.0058	mg/kg	8260B	02/24/08	1.15
1,2,3-Trichloropropane	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
1,2,4-Trimethylbenzene	0.0028	0.0012	mg/kg	8260B	02/24/08	1.15
1,2,3-Trimethylbenzene	0.0054	0.0012	mg/kg	8260B	02/24/08	1.15
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Vinyl chloride	BDL	0.0012	mg/kg	8260B	02/24/08	1.15
Xylenes, Total	0.0035	0.0035	mg/kg	8260B	02/24/08	1.15
Surrogate Recovery						
Toluene-d8	88.8		% Rec.	8260B	02/24/08	1.15
Dibromofluoromethane	100.		% Rec.	8260B	02/24/08	1.15
4-Bromofluorobenzene	62.5		% Rec.	8260B	02/24/08	1.15

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03,2008

ESC Sample # : L332816-11

Site ID :

Project # : 15634-00/T8

Date Received : February 21, 2008
Description : Brix

Sample ID : CB-A UPPER COMP

Collected By : Lisa Glonek
Collection Date : 02/19/08 14:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	54.7		%	2540G	02/23/08	1
Gasoline Range Organics-NWTPH	3.9	0.91	mg/kg	NWTPHGX	02/22/08	5
Surrogate Recovery						
a,a,a-Trifluorotoluene(FID)	95.5		% Rec.	NWTPHGX	02/22/08	5
Diesel Range Organics (DRO)	120	73.	mg/kg	NWTPHDX	02/27/08	10
Residual Range Organics (RRO)	440	180	mg/kg	NWTPHDX	02/27/08	10
Surrogate Recovery						
o-Terphenyl	74.3		% Rec.	NWTPHDX	02/27/08	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03,2008

ESC Sample # : L332816-12

Site ID :

Project # : 15634-00/T8

Date Received : February 21, 2008
Description : Brix

Sample ID : CB-A LOWER COMP

Collected By : Lisa Glonek
Collection Date : 02/19/08 14:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	71.1		%	2540G	02/23/08	1
Gasoline Range Organics-NWTPH	BDL	0.70	mg/kg	NWTPHGX	02/22/08	5
Surrogate Recovery						
a,a,a-Trifluorotoluene(FID)	97.3		% Rec.	NWTPHGX	02/22/08	5
Diesel Range Organics (DRO)	110	56.	mg/kg	NWTPHDX	02/27/08	10
Residual Range Organics (RRO)	1200	140	mg/kg	NWTPHDX	02/27/08	10
Surrogate Recovery						
o-Terphenyl	124.		% Rec.	NWTPHDX	02/27/08	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03,2008

ESC Sample # : L332816-13

Site ID :

Project # : 15634-00/T8

Date Received : February 21, 2008
Description : Brix

Sample ID : CB-B UPPER COMP

Collected By : Lisa Glonek
Collection Date : 02/19/08 16:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	56.4		%	2540G	02/23/08	1
Gasoline Range Organics-NWTPH	3.5	0.89	mg/kg	NWTPHGX	02/22/08	5
Surrogate Recovery						
a,a,a-Trifluorotoluene(FID)	96.4		% Rec.	NWTPHGX	02/22/08	5
Diesel Range Organics (DRO)	190	71.	mg/kg	NWTPHDX	02/27/08	10
Residual Range Organics (RRO)	850	180	mg/kg	NWTPHDX	02/27/08	10
Surrogate Recovery						
o-Terphenyl	99.0		% Rec.	NWTPHDX	02/27/08	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

March 03,2008

ESC Sample # : L332816-14

Site ID :

Project # : 15634-00/T8

Date Received : February 21, 2008
Description : Brix

Sample ID : CB-B LOWER COMP

Collected By : Lisa Glonek
Collection Date : 02/19/08 16:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	55.3		%	2540G	02/23/08	1
Gasoline Range Organics-NWTPH	27.	9.0	mg/kg	NWTPHGX	02/22/08	50
Surrogate Recovery						
a,a,a-Trifluorotoluene(FID)	96.1		% Rec.	NWTPHGX	02/22/08	50
Diesel Range Organics (DRO)	220	36.	mg/kg	NWTPHDX	02/29/08	5
Residual Range Organics (RRO)	2000	90.	mg/kg	NWTPHDX	02/29/08	5
Surrogate Recovery						
o-Terphenyl	53.7		% Rec.	NWTPHDX	02/29/08	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 03/03/08 13:31 Printed: 03/03/08 13:32

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L332816-02	Methyl tert-butyl ether	J3
L332816-04	Carbon tetrachloride	J4
	cis-1,3-Dichloropropene	J4
L332816-05	Trichlorofluoromethane	J4J3
L332816-06	Trichlorofluoromethane	J4J3
L332816-08	n-Butylbenzene	J8
	Naphthalene	J8
	Trichlorofluoromethane	J4J3
	1,2,3-Trimethylbenzene	J8
	4-Bromofluorobenzene	J2
L332816-09	Trichlorofluoromethane	J4J3
	1,2,3-Trimethylbenzene	J8
L332816-10	Trichlorofluoromethane	J4J3
	1,2,3-Trimethylbenzene	J8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J8	The internal standard associated with this data responded abnormally low. The data is likely to show a high bias concerning the result.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
03/03/08 at 13:32:29

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L332816-01 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31

Sample: L332816-02 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31

Sample: L332816-03 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31

Sample: L332816-04 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31

Sample: L332816-05 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31

Sample: L332816-06 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31

Sample: L332816-07 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31

Sample: L332816-08 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31

Sample: L332816-09 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31

Sample: L332816-10 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31

Sample: L332816-11 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31
Silica Gel Cleanup
Sample: L332816-12 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31
Silica Gel Cleanup
Sample: L332816-13 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31
Silica Gel Cleanup
Sample: L332816-14 Account: HARCROPOR Received: 02/21/08 09:00 Due Date: 02/28/08 00:00 RPT Date: 03/03/08 13:31
Silica Gel Cleanup

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Hart Crowser - Portland, OR
Leon Lahiere
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

Quality Assurance Report
Level II

L332816

March 03, 2008

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Total Solids	< .1	%	02/23/08 09:46	WG346421
Gasoline Range Organics-NWTPH	< .1	mg/kg	02/22/08 13:53	WG346451
1,1,1,2-Tetrachloroethane	< .001	mg/kg	02/24/08 12:53	WG346688
1,1,1-Trichloroethane	< .001	mg/kg	02/24/08 12:53	WG346688
1,1,2,2-Tetrachloroethane	< .001	mg/kg	02/24/08 12:53	WG346688
1,1,2-Trichloroethane	< .001	mg/kg	02/24/08 12:53	WG346688
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg	02/24/08 12:53	WG346688
1,1-Dichloroethane	< .001	mg/kg	02/24/08 12:53	WG346688
1,1-Dichloroethene	< .001	mg/kg	02/24/08 12:53	WG346688
1,1-Dichloropropene	< .001	mg/kg	02/24/08 12:53	WG346688
1,2,3-Trichlorobenzene	< .001	mg/kg	02/24/08 12:53	WG346688
1,2,3-Trichloropropane	< .001	mg/kg	02/24/08 12:53	WG346688
1,2,3-Trimethylbenzene	< .001	mg/kg	02/24/08 12:53	WG346688
1,2,4-Trichlorobenzene	< .001	mg/kg	02/24/08 12:53	WG346688
1,2,4-Trimethylbenzene	< .001	mg/kg	02/24/08 12:53	WG346688
1,2-Dibromo-3-Chloropropane	< .005	mg/kg	02/24/08 12:53	WG346688
1,2-Dibromoethane	< .001	mg/kg	02/24/08 12:53	WG346688
1,2-Dichlorobenzene	< .001	mg/kg	02/24/08 12:53	WG346688
1,2-Dichloroethane	< .001	mg/kg	02/24/08 12:53	WG346688
1,2-Dichloropropane	< .001	mg/kg	02/24/08 12:53	WG346688
1,3,5-Trimethylbenzene	< .001	mg/kg	02/24/08 12:53	WG346688
1,3-Dichlorobenzene	< .001	mg/kg	02/24/08 12:53	WG346688
1,3-Dichloropropane	< .001	mg/kg	02/24/08 12:53	WG346688
1,4-Dichlorobenzene	< .001	mg/kg	02/24/08 12:53	WG346688
2,2-Dichloropropane	< .001	mg/kg	02/24/08 12:53	WG346688
2-Butanone (MEK)	< .01	mg/kg	02/24/08 12:53	WG346688
2-Chloroethyl vinyl ether	< .001	mg/kg	02/24/08 12:53	WG346688
2-Chlorotoluene	< .001	mg/kg	02/24/08 12:53	WG346688
4-Chlorotoluene	< .001	mg/kg	02/24/08 12:53	WG346688
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg	02/24/08 12:53	WG346688
Acetone	< .05	mg/kg	02/24/08 12:53	WG346688
Acrylonitrile	< .01	mg/kg	02/24/08 12:53	WG346688
Benzene	< .001	mg/kg	02/24/08 12:53	WG346688
Bromobenzene	< .001	mg/kg	02/24/08 12:53	WG346688
Bromodichloromethane	< .001	mg/kg	02/24/08 12:53	WG346688
Bromoform	< .001	mg/kg	02/24/08 12:53	WG346688
Bromomethane	< .005	mg/kg	02/24/08 12:53	WG346688
Carbon tetrachloride	< .001	mg/kg	02/24/08 12:53	WG346688
Chlorobenzene	< .001	mg/kg	02/24/08 12:53	WG346688
Chlorodibromomethane	< .001	mg/kg	02/24/08 12:53	WG346688
Chloroethane	< .005	mg/kg	02/24/08 12:53	WG346688
Chloroform	< .005	mg/kg	02/24/08 12:53	WG346688
Chloromethane	< .001	mg/kg	02/24/08 12:53	WG346688
cis-1,2-Dichloroethene	< .001	mg/kg	02/24/08 12:53	WG346688
cis-1,3-Dichloropropene	< .001	mg/kg	02/24/08 12:53	WG346688
Di-isopropyl ether	< .001	mg/kg	02/24/08 12:53	WG346688
Dibromomethane	< .001	mg/kg	02/24/08 12:53	WG346688
Dichlorodifluoromethane	< .005	mg/kg	02/24/08 12:53	WG346688
Ethylbenzene	< .001	mg/kg	02/24/08 12:53	WG346688
Hexachlorobutadiene	< .001	mg/kg	02/24/08 12:53	WG346688
Isopropylbenzene	< .001	mg/kg	02/24/08 12:53	WG346688
Methyl tert-butyl ether	< .001	mg/kg	02/24/08 12:53	WG346688
Methylene Chloride	< .005	mg/kg	02/24/08 12:53	WG346688
n-Butylbenzene	< .001	mg/kg	02/24/08 12:53	WG346688
n-Propylbenzene	< .001	mg/kg	02/24/08 12:53	WG346688
Naphthalene	< .005	mg/kg	02/24/08 12:53	WG346688
p-Isopropyltoluene	< .001	mg/kg	02/24/08 12:53	WG346688
sec-Butylbenzene	< .001	mg/kg	02/24/08 12:53	WG346688

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Leon Lahiere
Five Centerpointe Dr, Ste 240

Lake Oswego, OR 97035

Quality Assurance Report
Level II

L332816

March 03, 2008

Styrene	< .001	mg/kg	02/24/08 12:53	WG346688

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
tert-Butylbenzene	< .001	mg/kg	02/24/08 12:53	WG346688
Tetrachloroethene	< .001	mg/kg	02/24/08 12:53	WG346688
Toluene	< .005	mg/kg	02/24/08 12:53	WG346688
trans-1,2-Dichloroethene	< .001	mg/kg	02/24/08 12:53	WG346688
trans-1,3-Dichloropropene	< .001	mg/kg	02/24/08 12:53	WG346688
Trichloroethene	< .001	mg/kg	02/24/08 12:53	WG346688
Trichlorofluoromethane	< .005	mg/kg	02/24/08 12:53	WG346688
Vinyl chloride	< .001	mg/kg	02/24/08 12:53	WG346688
Xylenes, Total	< .003	mg/kg	02/24/08 12:53	WG346688
1,1,1,2-Tetrachloroethane	< .001	mg/kg	02/24/08 14:23	WG346689
1,1,1-Trichloroethane	< .001	mg/kg	02/24/08 14:23	WG346689
1,1,2,2-Tetrachloroethane	< .001	mg/kg	02/24/08 14:23	WG346689
1,1,2-Trichloroethane	< .001	mg/kg	02/24/08 14:23	WG346689
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg	02/24/08 14:23	WG346689
1,1-Dichloroethane	< .001	mg/kg	02/24/08 14:23	WG346689
1,1-Dichloroethene	< .001	mg/kg	02/24/08 14:23	WG346689
1,1-Dichloropropene	< .001	mg/kg	02/24/08 14:23	WG346689
1,2,3-Trichlorobenzene	< .001	mg/kg	02/24/08 14:23	WG346689
1,2,3-Trichloropropane	< .001	mg/kg	02/24/08 14:23	WG346689
1,2,3-Trimethylbenzene	< .001	mg/kg	02/24/08 14:23	WG346689
1,2,4-Trichlorobenzene	< .001	mg/kg	02/24/08 14:23	WG346689
1,2,4-Trimethylbenzene	< .001	mg/kg	02/24/08 14:23	WG346689
1,2-Dibromo-3-Chloropropane	< .005	mg/kg	02/24/08 14:23	WG346689
1,2-Dibromoethane	< .001	mg/kg	02/24/08 14:23	WG346689
1,2-Dichlorobenzene	< .001	mg/kg	02/24/08 14:23	WG346689
1,2-Dichloroethane	< .001	mg/kg	02/24/08 14:23	WG346689
1,2-Dichloropropane	< .001	mg/kg	02/24/08 14:23	WG346689
1,3,5-Trimethylbenzene	< .001	mg/kg	02/24/08 14:23	WG346689
1,3-Dichlorobenzene	< .001	mg/kg	02/24/08 14:23	WG346689
1,3-Dichloropropane	< .001	mg/kg	02/24/08 14:23	WG346689
1,4-Dichlorobenzene	< .001	mg/kg	02/24/08 14:23	WG346689
2,2-Dichloropropane	< .001	mg/kg	02/24/08 14:23	WG346689
2-Butanone (MEK)	< .01	mg/kg	02/24/08 14:23	WG346689
2-Chloroethyl vinyl ether	< .001	mg/kg	02/24/08 14:23	WG346689
2-Chlorotoluene	< .001	mg/kg	02/24/08 14:23	WG346689
4-Chlorotoluene	< .001	mg/kg	02/24/08 14:23	WG346689
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg	02/24/08 14:23	WG346689
Acetone	< .05	mg/kg	02/24/08 14:23	WG346689
Acrylonitrile	< .01	mg/kg	02/24/08 14:23	WG346689
Benzene	< .001	mg/kg	02/24/08 14:23	WG346689
Bromobenzene	< .001	mg/kg	02/24/08 14:23	WG346689
Bromodichloromethane	< .001	mg/kg	02/24/08 14:23	WG346689
Bromoform	< .001	mg/kg	02/24/08 14:23	WG346689
Bromomethane	< .005	mg/kg	02/24/08 14:23	WG346689
Carbon tetrachloride	< .001	mg/kg	02/24/08 14:23	WG346689
Chlorobenzene	< .001	mg/kg	02/24/08 14:23	WG346689
Chlorodibromomethane	< .001	mg/kg	02/24/08 14:23	WG346689
Chloroethane	< .005	mg/kg	02/24/08 14:23	WG346689
Chloroform	< .005	mg/kg	02/24/08 14:23	WG346689
Chloromethane	< .001	mg/kg	02/24/08 14:23	WG346689
cis-1,2-Dichloroethene	< .001	mg/kg	02/24/08 14:23	WG346689
cis-1,3-Dichloropropene	< .001	mg/kg	02/24/08 14:23	WG346689
Di-isopropyl ether	< .001	mg/kg	02/24/08 14:23	WG346689
Dibromomethane	< .001	mg/kg	02/24/08 14:23	WG346689
Dichlorodifluoromethane	< .005	mg/kg	02/24/08 14:23	WG346689
Ethylbenzene	< .001	mg/kg	02/24/08 14:23	WG346689
Hexachlorobutadiene	< .001	mg/kg	02/24/08 14:23	WG346689
Isopropylbenzene	< .001	mg/kg	02/24/08 14:23	WG346689

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Lake Oswego, OR 97035

Quality Assurance Report
Level II

L332816

March 03, 2008

Methyl tert-butyl ether	< .001	mg/kg	02/24/08 14:23	WG346689

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Methylene Chloride	< .005	mg/kg	02/24/08 14:23	WG346689
n-Butylbenzene	< .001	mg/kg	02/24/08 14:23	WG346689
n-Propylbenzene	< .001	mg/kg	02/24/08 14:23	WG346689
Naphthalene	< .005	mg/kg	02/24/08 14:23	WG346689
p-Isopropyltoluene	< .001	mg/kg	02/24/08 14:23	WG346689
sec-Butylbenzene	< .001	mg/kg	02/24/08 14:23	WG346689
Styrene	< .001	mg/kg	02/24/08 14:23	WG346689
tert-Butylbenzene	< .001	mg/kg	02/24/08 14:23	WG346689
Tetrachloroethene	< .001	mg/kg	02/24/08 14:23	WG346689
Toluene	< .005	mg/kg	02/24/08 14:23	WG346689
trans-1,2-Dichloroethene	< .001	mg/kg	02/24/08 14:23	WG346689
trans-1,3-Dichloropropene	< .001	mg/kg	02/24/08 14:23	WG346689
Trichloroethene	< .001	mg/kg	02/24/08 14:23	WG346689
Trichlorofluoromethane	< .005	mg/kg	02/24/08 14:23	WG346689
Vinyl chloride	< .001	mg/kg	02/24/08 14:23	WG346689
Xylenes, Total	< .003	mg/kg	02/24/08 14:23	WG346689
Diesel Range Organics (DRO)	< 25	mg/kg	02/25/08 08:50	WG346741
Diesel Range Organics (DRO)	< 4	ppm	02/25/08 08:50	WG346741
Residual Range Organics (RRO)	< 100	mg/kg	02/25/08 08:50	WG346741
1,1,1,2-Tetrachloroethane	< .001	mg/kg	02/26/08 11:02	WG346950
1,1,1-Trichloroethane	< .001	mg/kg	02/26/08 11:02	WG346950
1,1,2,2-Tetrachloroethane	< .001	mg/kg	02/26/08 11:02	WG346950
1,1,2-Trichloroethane	< .001	mg/kg	02/26/08 11:02	WG346950
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg	02/26/08 11:02	WG346950
1,1-Dichloroethane	< .001	mg/kg	02/26/08 11:02	WG346950
1,1-Dichloroethene	< .001	mg/kg	02/26/08 11:02	WG346950
1,1-Dichloropropene	< .001	mg/kg	02/26/08 11:02	WG346950
1,2,3-Trichlorobenzene	< .001	mg/kg	02/26/08 11:02	WG346950
1,2,3-Trichloropropane	< .001	mg/kg	02/26/08 11:02	WG346950
1,2,3-Trimethylbenzene	< .001	mg/kg	02/26/08 11:02	WG346950
1,2,4-Trichlorobenzene	< .001	mg/kg	02/26/08 11:02	WG346950
1,2,4-Trimethylbenzene	< .001	mg/kg	02/26/08 11:02	WG346950
1,2-Dibromo-3-Chloropropane	< .005	mg/kg	02/26/08 11:02	WG346950
1,2-Dibromoethane	< .001	mg/kg	02/26/08 11:02	WG346950
1,2-Dichlorobenzene	< .001	mg/kg	02/26/08 11:02	WG346950
1,2-Dichloroethane	< .001	mg/kg	02/26/08 11:02	WG346950
1,2-Dichloropropane	< .001	mg/kg	02/26/08 11:02	WG346950
1,3,5-Trimethylbenzene	< .001	mg/kg	02/26/08 11:02	WG346950
1,3-Dichlorobenzene	< .001	mg/kg	02/26/08 11:02	WG346950
1,3-Dichloropropane	< .001	mg/kg	02/26/08 11:02	WG346950
1,4-Dichlorobenzene	< .001	mg/kg	02/26/08 11:02	WG346950
2,2-Dichloropropane	< .001	mg/kg	02/26/08 11:02	WG346950
2-Butanone (MEK)	< .01	mg/kg	02/26/08 11:02	WG346950
2-Chloroethyl vinyl ether	< .001	mg/kg	02/26/08 11:02	WG346950
2-Chlorotoluene	< .001	mg/kg	02/26/08 11:02	WG346950
4-Chlorotoluene	< .001	mg/kg	02/26/08 11:02	WG346950
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg	02/26/08 11:02	WG346950
Acetone	< .05	mg/kg	02/26/08 11:02	WG346950
Acrylonitrile	< .01	mg/kg	02/26/08 11:02	WG346950
Benzene	< .001	mg/kg	02/26/08 11:02	WG346950
Bromobenzene	< .001	mg/kg	02/26/08 11:02	WG346950
Bromodichloromethane	< .001	mg/kg	02/26/08 11:02	WG346950
Bromoform	< .001	mg/kg	02/26/08 11:02	WG346950
Bromomethane	< .005	mg/kg	02/26/08 11:02	WG346950
Carbon tetrachloride	< .001	mg/kg	02/26/08 11:02	WG346950
Chlorobenzene	< .001	mg/kg	02/26/08 11:02	WG346950
Chlorodibromomethane	< .001	mg/kg	02/26/08 11:02	WG346950

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Lake Oswego, OR 97035

Quality Assurance Report
Level II

L332816

March 03, 2008

Chloroethane	< .005	mg/kg	02/26/08 11:02	WG346950

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Chloroform	< .005	mg/kg	02/26/08 11:02	WG346950
Chloromethane	< .001	mg/kg	02/26/08 11:02	WG346950
cis-1,2-Dichloroethene	< .001	mg/kg	02/26/08 11:02	WG346950
cis-1,3-Dichloropropene	< .001	mg/kg	02/26/08 11:02	WG346950
Di-isopropyl ether	< .001	mg/kg	02/26/08 11:02	WG346950
Dibromomethane	< .001	mg/kg	02/26/08 11:02	WG346950
Dichlorodifluoromethane	< .005	mg/kg	02/26/08 11:02	WG346950
Ethylbenzene	< .001	mg/kg	02/26/08 11:02	WG346950
Hexachlorobutadiene	< .001	mg/kg	02/26/08 11:02	WG346950
Isopropylbenzene	< .001	mg/kg	02/26/08 11:02	WG346950
Methyl tert-butyl ether	< .001	mg/kg	02/26/08 11:02	WG346950
Methylene Chloride	< .005	mg/kg	02/26/08 11:02	WG346950
n-Butylbenzene	< .001	mg/kg	02/26/08 11:02	WG346950
n-Propylbenzene	< .001	mg/kg	02/26/08 11:02	WG346950
Naphthalene	< .005	mg/kg	02/26/08 11:02	WG346950
p-Isopropyltoluene	< .001	mg/kg	02/26/08 11:02	WG346950
sec-Butylbenzene	< .001	mg/kg	02/26/08 11:02	WG346950
Styrene	< .001	mg/kg	02/26/08 11:02	WG346950
tert-Butylbenzene	< .001	mg/kg	02/26/08 11:02	WG346950
Tetrachloroethene	< .001	mg/kg	02/26/08 11:02	WG346950
Toluene	< .005	mg/kg	02/26/08 11:02	WG346950
trans-1,2-Dichloroethene	< .001	mg/kg	02/26/08 11:02	WG346950
trans-1,3-Dichloropropene	< .001	mg/kg	02/26/08 11:02	WG346950
Trichloroethene	< .001	mg/kg	02/26/08 11:02	WG346950
Trichlorofluoromethane	< .005	mg/kg	02/26/08 11:02	WG346950
Vinyl chloride	< .001	mg/kg	02/26/08 11:02	WG346950
Xylenes, Total	< .003	mg/kg	02/26/08 11:02	WG346950
1,1,1,2-Tetrachloroethane	< .001	mg/kg	02/26/08 16:35	WG347089
1,1,1-Trichloroethane	< .001	mg/kg	02/26/08 16:35	WG347089
1,1,2,2-Tetrachloroethane	< .001	mg/kg	02/26/08 16:35	WG347089
1,1,2-Trichloroethane	< .001	mg/kg	02/26/08 16:35	WG347089
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg	02/26/08 16:35	WG347089
1,1-Dichloroethane	< .001	mg/kg	02/26/08 16:35	WG347089
1,1-Dichloroethene	< .001	mg/kg	02/26/08 16:35	WG347089
1,1-Dichloropropene	< .001	mg/kg	02/26/08 16:35	WG347089
1,2,3-Trichlorobenzene	< .001	mg/kg	02/26/08 16:35	WG347089
1,2,3-Trichloropropane	< .001	mg/kg	02/26/08 16:35	WG347089
1,2,3-Trimethylbenzene	< .001	mg/kg	02/26/08 16:35	WG347089
1,2,4-Trichlorobenzene	< .001	mg/kg	02/26/08 16:35	WG347089
1,2,4-Trimethylbenzene	< .001	mg/kg	02/26/08 16:35	WG347089
1,2-Dibromo-3-Chloropropane	< .005	mg/kg	02/26/08 16:35	WG347089
1,2-Dibromoethane	< .001	mg/kg	02/26/08 16:35	WG347089
1,2-Dichlorobenzene	< .001	mg/kg	02/26/08 16:35	WG347089
1,2-Dichloroethane	< .001	mg/kg	02/26/08 16:35	WG347089
1,2-Dichloropropane	< .001	mg/kg	02/26/08 16:35	WG347089
1,3,5-Trimethylbenzene	< .001	mg/kg	02/26/08 16:35	WG347089
1,3-Dichlorobenzene	< .001	mg/kg	02/26/08 16:35	WG347089
1,3-Dichloropropane	< .001	mg/kg	02/26/08 16:35	WG347089
1,4-Dichlorobenzene	< .001	mg/kg	02/26/08 16:35	WG347089
2,2-Dichloropropane	< .001	mg/kg	02/26/08 16:35	WG347089
2-Butanone (MEK)	< .01	mg/kg	02/26/08 16:35	WG347089
2-Chloroethyl vinyl ether	< .001	mg/kg	02/26/08 16:35	WG347089
2-Chlorotoluene	< .001	mg/kg	02/26/08 16:35	WG347089
4-Chlorotoluene	< .001	mg/kg	02/26/08 16:35	WG347089
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg	02/26/08 16:35	WG347089
Acetone	< .05	mg/kg	02/26/08 16:35	WG347089
Acrylonitrile	< .01	mg/kg	02/26/08 16:35	WG347089
Benzene	< .001	mg/kg	02/26/08 16:35	WG347089

ENVIRONMENTAL SCIENCE CORP.

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Quality Assurance Report
Level II

L332816

March 03, 2008

Bromobenzene	< .001	mg/kg	02/26/08 16:35	WG347089

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
Bromodichloromethane	< .001	mg/kg	02/26/08 16:35	WG347089
Bromoform	< .001	mg/kg	02/26/08 16:35	WG347089
Bromomethane	< .005	mg/kg	02/26/08 16:35	WG347089
Carbon tetrachloride	< .001	mg/kg	02/26/08 16:35	WG347089
Chlorobenzene	< .001	mg/kg	02/26/08 16:35	WG347089
Chlorodibromomethane	< .001	mg/kg	02/26/08 16:35	WG347089
Chloroethane	< .005	mg/kg	02/26/08 16:35	WG347089
Chloroform	< .005	mg/kg	02/26/08 16:35	WG347089
Chloromethane	< .001	mg/kg	02/26/08 16:35	WG347089
cis-1,2-Dichloroethene	< .001	mg/kg	02/26/08 16:35	WG347089
cis-1,3-Dichloropropene	< .001	mg/kg	02/26/08 16:35	WG347089
Di-isopropyl ether	< .001	mg/kg	02/26/08 16:35	WG347089
Dibromomethane	< .001	mg/kg	02/26/08 16:35	WG347089
Dichlorodifluoromethane	< .005	mg/kg	02/26/08 16:35	WG347089
Ethylbenzene	< .001	mg/kg	02/26/08 16:35	WG347089
Hexachlorobutadiene	< .001	mg/kg	02/26/08 16:35	WG347089
Isopropylbenzene	< .001	mg/kg	02/26/08 16:35	WG347089
Methyl tert-butyl ether	< .001	mg/kg	02/26/08 16:35	WG347089
Methylene Chloride	< .005	mg/kg	02/26/08 16:35	WG347089
n-Butylbenzene	< .001	mg/kg	02/26/08 16:35	WG347089
n-Propylbenzene	< .001	mg/kg	02/26/08 16:35	WG347089
Naphthalene	< .005	mg/kg	02/26/08 16:35	WG347089
p-Isopropyltoluene	< .001	mg/kg	02/26/08 16:35	WG347089
sec-Butylbenzene	< .001	mg/kg	02/26/08 16:35	WG347089
Styrene	< .001	mg/kg	02/26/08 16:35	WG347089
tert-Butylbenzene	< .001	mg/kg	02/26/08 16:35	WG347089
Tetrachloroethene	< .001	mg/kg	02/26/08 16:35	WG347089
Toluene	< .005	mg/kg	02/26/08 16:35	WG347089
trans-1,2-Dichloroethene	< .001	mg/kg	02/26/08 16:35	WG347089
trans-1,3-Dichloropropene	< .001	mg/kg	02/26/08 16:35	WG347089
Trichloroethene	< .001	mg/kg	02/26/08 16:35	WG347089
Trichlorofluoromethane	< .005	mg/kg	02/26/08 16:35	WG347089
Vinyl chloride	< .001	mg/kg	02/26/08 16:35	WG347089
Xylenes, Total	< .003	mg/kg	02/26/08 16:35	WG347089
Toluene	< .005	mg/kg	02/28/08 10:21	WG347350
1,1,1,2-Tetrachloroethane	< .001	mg/kg	02/29/08 11:07	WG347625
1,1,1-Trichloroethane	< .001	mg/kg	02/29/08 11:07	WG347625
1,1,2,2-Tetrachloroethane	< .001	mg/kg	02/29/08 11:07	WG347625
1,1,2-Trichloroethane	< .001	mg/kg	02/29/08 11:07	WG347625
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg	02/29/08 11:07	WG347625
1,1-Dichloroethane	< .001	mg/kg	02/29/08 11:07	WG347625
1,1-Dichloroethene	< .001	mg/kg	02/29/08 11:07	WG347625
1,1-Dichloropropene	< .001	mg/kg	02/29/08 11:07	WG347625
1,2,3-Trichlorobenzene	< .001	mg/kg	02/29/08 11:07	WG347625
1,2,3-Trichloropropane	< .001	mg/kg	02/29/08 11:07	WG347625
1,2,3-Trimethylbenzene	< .001	mg/kg	02/29/08 11:07	WG347625
1,2,4-Trichlorobenzene	< .001	mg/kg	02/29/08 11:07	WG347625
1,2,4-Trimethylbenzene	< .001	mg/kg	02/29/08 11:07	WG347625
1,2-Dibromo-3-Chloropropane	< .005	mg/kg	02/29/08 11:07	WG347625
1,2-Dibromoethane	< .001	mg/kg	02/29/08 11:07	WG347625
1,2-Dichlorobenzene	< .001	mg/kg	02/29/08 11:07	WG347625
1,2-Dichloroethane	< .001	mg/kg	02/29/08 11:07	WG347625
1,2-Dichloropropane	< .001	mg/kg	02/29/08 11:07	WG347625
1,3,5-Trimethylbenzene	< .001	mg/kg	02/29/08 11:07	WG347625
1,3-Dichlorobenzene	< .001	mg/kg	02/29/08 11:07	WG347625
1,3-Dichloropropane	< .001	mg/kg	02/29/08 11:07	WG347625
1,4-Dichlorobenzene	< .001	mg/kg	02/29/08 11:07	WG347625

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Lake Oswego, OR 97035

Quality Assurance Report
Level II

March 03, 2008

L332816

2,2-Dichloropropane	< .001	mg/kg	02/29/08 11:07	WG347625

Laboratory Blank

Analyte	Result	Units	Date Analyzed	Batch
2-Butanone (MEK)	< .01	mg/kg	02/29/08 11:07	WG347625
2-Chloroethyl vinyl ether	< .001	mg/kg	02/29/08 11:07	WG347625
2-Chlorotoluene	< .001	mg/kg	02/29/08 11:07	WG347625
4-Chlorotoluene	< .001	mg/kg	02/29/08 11:07	WG347625
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg	02/29/08 11:07	WG347625
Acetone	< .05	mg/kg	02/29/08 11:07	WG347625
Acrylonitrile	< .01	mg/kg	02/29/08 11:07	WG347625
Benzene	< .001	mg/kg	02/29/08 11:07	WG347625
Bromobenzene	< .001	mg/kg	02/29/08 11:07	WG347625
Bromodichloromethane	< .001	mg/kg	02/29/08 11:07	WG347625
Bromoform	< .001	mg/kg	02/29/08 11:07	WG347625
Bromomethane	< .005	mg/kg	02/29/08 11:07	WG347625
Carbon tetrachloride	< .001	mg/kg	02/29/08 11:07	WG347625
Chlorobenzene	< .001	mg/kg	02/29/08 11:07	WG347625
Chlorodibromomethane	< .001	mg/kg	02/29/08 11:07	WG347625
Chloroethane	< .005	mg/kg	02/29/08 11:07	WG347625
Chloroform	< .005	mg/kg	02/29/08 11:07	WG347625
Chloromethane	< .001	mg/kg	02/29/08 11:07	WG347625
cis-1,2-Dichloroethene	< .001	mg/kg	02/29/08 11:07	WG347625
cis-1,3-Dichloropropene	< .001	mg/kg	02/29/08 11:07	WG347625
Di-isopropyl ether	< .001	mg/kg	02/29/08 11:07	WG347625
Dibromomethane	< .001	mg/kg	02/29/08 11:07	WG347625
Dichlorodifluoromethane	< .005	mg/kg	02/29/08 11:07	WG347625
Ethylbenzene	< .001	mg/kg	02/29/08 11:07	WG347625
Hexachlorobutadiene	< .001	mg/kg	02/29/08 11:07	WG347625
Isopropylbenzene	< .001	mg/kg	02/29/08 11:07	WG347625
Methyl tert-butyl ether	< .001	mg/kg	02/29/08 11:07	WG347625
Methylene Chloride	< .005	mg/kg	02/29/08 11:07	WG347625
n-Butylbenzene	< .001	mg/kg	02/29/08 11:07	WG347625
n-Propylbenzene	< .001	mg/kg	02/29/08 11:07	WG347625
Naphthalene	< .005	mg/kg	02/29/08 11:07	WG347625
p-Isopropyltoluene	< .001	mg/kg	02/29/08 11:07	WG347625
sec-Butylbenzene	< .001	mg/kg	02/29/08 11:07	WG347625
Styrene	< .001	mg/kg	02/29/08 11:07	WG347625
tert-Butylbenzene	< .001	mg/kg	02/29/08 11:07	WG347625
Tetrachloroethene	< .001	mg/kg	02/29/08 11:07	WG347625
Toluene	< .005	mg/kg	02/29/08 11:07	WG347625
trans-1,2-Dichloroethene	< .001	mg/kg	02/29/08 11:07	WG347625
trans-1,3-Dichloropropene	< .001	mg/kg	02/29/08 11:07	WG347625
Trichloroethene	< .001	mg/kg	02/29/08 11:07	WG347625
Trichlorofluoromethane	< .005	mg/kg	02/29/08 11:07	WG347625
Vinyl chloride	< .001	mg/kg	02/29/08 11:07	WG347625
Xylenes, Total	< .003	mg/kg	02/29/08 11:07	WG347625

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	80.2	80.1	0.153	5	L332823-06	WG346421

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG346421
Gasoline Range Organics-NWTPH	mg/kg	5.5	4.88	88.7	67-135	WG346451
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0485	97.0	73-134	WG346688
1,1,1-Trichloroethane	mg/kg	.05	0.0493	98.7	62-135	WG346688
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0478	95.5	74-129	WG346688

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1,1,2-Trichloroethane	mg/kg	.05	0.0472	94.4	77-124	WG346688

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0402	80.3	49-155	WG346688
1,1-Dichloroethane	mg/kg	.05	0.0481	96.2	61-134	WG346688
1,1-Dichloroethene	mg/kg	.05	0.0492	98.4	53-136	WG346688
1,1-Dichloropropene	mg/kg	.05	0.0480	95.9	63-132	WG346688
1,2,3-Trichlorobenzene	mg/kg	.05	0.0451	90.2	62-146	WG346688
1,2,3-Trichloropropane	mg/kg	.05	0.0488	97.6	70-133	WG346688
1,2,3-Trimethylbenzene	mg/kg	.05	0.0490	98.1	73-126	WG346688
1,2,4-Trichlorobenzene	mg/kg	.05	0.0453	90.6	61-148	WG346688
1,2,4-Trimethylbenzene	mg/kg	.05	0.0496	99.2	68-135	WG346688
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0513	103.	61-134	WG346688
1,2-Dibromoethane	mg/kg	.05	0.0466	93.1	76-127	WG346688
1,2-Dichlorobenzene	mg/kg	.05	0.0481	96.3	77-123	WG346688
1,2-Dichloroethane	mg/kg	.05	0.0467	93.5	58-141	WG346688
1,2-Dichloropropane	mg/kg	.05	0.0485	97.0	71-128	WG346688
1,3,5-Trimethylbenzene	mg/kg	.05	0.0505	101.	71-133	WG346688
1,3-Dichlorobenzene	mg/kg	.05	0.0470	93.9	71-132	WG346688
1,3-Dichloropropane	mg/kg	.05	0.0464	92.8	76-120	WG346688
1,4-Dichlorobenzene	mg/kg	.05	0.0473	94.5	72-123	WG346688
2,2-Dichloropropane	mg/kg	.05	0.0431	86.1	50-147	WG346688
2-Butanone (MEK)	mg/kg	.25	0.238	95.2	51-131	WG346688
2-Chloroethyl vinyl ether	mg/kg	.25	0.157	62.7	0-188	WG346688
2-Chlorotoluene	mg/kg	.05	0.0491	98.1	73-128	WG346688
4-Chlorotoluene	mg/kg	.05	0.0476	95.3	72-129	WG346688
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.258	103.	61-143	WG346688
Acetone	mg/kg	.25	0.244	97.7	44-140	WG346688
Acrylonitrile	mg/kg	.25	0.236	94.3	55-143	WG346688
Benzene	mg/kg	.05	0.0450	90.0	65-128	WG346688
Bromobenzene	mg/kg	.05	0.0472	94.5	75-123	WG346688
Bromodichloromethane	mg/kg	.05	0.0487	97.5	66-126	WG346688
Bromoform	mg/kg	.05	0.0516	103.	64-139	WG346688
Bromomethane	mg/kg	.05	0.0633	127.	41-175	WG346688
Carbon tetrachloride	mg/kg	.05	0.0487	97.4	60-140	WG346688
Chlorobenzene	mg/kg	.05	0.0478	95.6	75-125	WG346688
Chlorodibromomethane	mg/kg	.05	0.0482	96.5	72-137	WG346688
Chloroethane	mg/kg	.05	0.0495	99.0	44-159	WG346688
Chloroform	mg/kg	.05	0.0469	93.8	63-123	WG346688
Chloromethane	mg/kg	.05	0.0422	84.4	42-149	WG346688
cis-1,2-Dichloroethene	mg/kg	.05	0.0464	92.7	71-129	WG346688
cis-1,3-Dichloropropene	mg/kg	.05	0.0483	96.6	73-132	WG346688
Di-isopropyl ether	mg/kg	.05	0.0484	96.9	59-143	WG346688
Dibromomethane	mg/kg	.05	0.0438	87.6	70-130	WG346688
Dichlorodifluoromethane	mg/kg	.05	0.0424	84.9	26-186	WG346688
Ethylbenzene	mg/kg	.05	0.0498	99.7	74-128	WG346688
Hexachlorobutadiene	mg/kg	.05	0.0461	92.3	65-137	WG346688
Isopropylbenzene	mg/kg	.05	0.0505	101.	73-130	WG346688
Methyl tert-butyl ether	mg/kg	.05	0.0464	92.8	44-148	WG346688
Methylene Chloride	mg/kg	.05	0.0431	86.3	57-129	WG346688
n-Butylbenzene	mg/kg	.05	0.0506	101.	60-145	WG346688
n-Propylbenzene	mg/kg	.05	0.0514	103.	71-132	WG346688
Naphthalene	mg/kg	.05	0.0460	92.0	61-142	WG346688
p-Isopropyltoluene	mg/kg	.05	0.0509	102.	67-138	WG346688
sec-Butylbenzene	mg/kg	.05	0.0510	102.	71-134	WG346688
Styrene	mg/kg	.05	0.0516	103.	76-133	WG346688
tert-Butylbenzene	mg/kg	.05	0.0508	102.	72-132	WG346688
Tetrachloroethene	mg/kg	.05	0.0463	92.6	65-135	WG346688
Toluene	mg/kg	.05	0.0472	94.4	70-120	WG346688
trans-1,2-Dichloroethene	mg/kg	.05	0.0449	89.8	61-133	WG346688
trans-1,3-Dichloropropene	mg/kg	.05	0.0501	100.	70-135	WG346688
Trichloroethene	mg/kg	.05	0.0461	92.1	71-126	WG346688

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March 03, 2008

Trichlorofluoromethane	mg/kg	.05	0.0475	95.1	52-147	WG346688

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Vinyl chloride	mg/kg	.05	0.0465	93.0	50-151	WG346688
Xylenes, Total	mg/kg	.15	0.148	98.4	74-127	WG346688
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0454	90.8	73-134	WG346689
1,1,1-Trichloroethane	mg/kg	.05	0.0408	81.6	62-135	WG346689
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0459	91.9	74-129	WG346689
1,1,2-Trichloroethane	mg/kg	.05	0.0457	91.3	77-124	WG346689
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0365	73.0	49-155	WG346689
1,1-Dichloroethane	mg/kg	.05	0.0456	91.1	61-134	WG346689
1,1-Dichloroethene	mg/kg	.05	0.0421	84.3	53-136	WG346689
1,1-Dichloropropene	mg/kg	.05	0.0429	85.9	63-132	WG346689
1,2,3-Trichlorobenzene	mg/kg	.05	0.0483	96.7	62-146	WG346689
1,2,3-Trichloropropane	mg/kg	.05	0.0470	93.9	70-133	WG346689
1,2,3-Trimethylbenzene	mg/kg	.05	0.0433	86.6	73-126	WG346689
1,2,4-Trichlorobenzene	mg/kg	.05	0.0435	86.9	61-148	WG346689
1,2,4-Trimethylbenzene	mg/kg	.05	0.0476	95.1	68-135	WG346689
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0449	89.8	61-134	WG346689
1,2-Dibromoethane	mg/kg	.05	0.0440	88.0	76-127	WG346689
1,2-Dichlorobenzene	mg/kg	.05	0.0443	88.6	77-123	WG346689
1,2-Dichloroethane	mg/kg	.05	0.0426	85.1	58-141	WG346689
1,2-Dichloropropane	mg/kg	.05	0.0498	99.7	71-128	WG346689
1,3,5-Trimethylbenzene	mg/kg	.05	0.0510	102.	71-133	WG346689
1,3-Dichlorobenzene	mg/kg	.05	0.0487	97.4	71-132	WG346689
1,3-Dichloropropane	mg/kg	.05	0.0461	92.2	76-120	WG346689
1,4-Dichlorobenzene	mg/kg	.05	0.0496	99.2	72-123	WG346689
2,2-Dichloropropane	mg/kg	.05	0.0412	82.5	50-147	WG346689
2-Butanone (MEK)	mg/kg	.25	0.253	101.	51-131	WG346689
2-Chloroethyl vinyl ether	mg/kg	.25	0.244	97.6	0-188	WG346689
2-Chlorotoluene	mg/kg	.05	0.0510	102.	73-128	WG346689
4-Chlorotoluene	mg/kg	.05	0.0428	85.6	72-129	WG346689
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.246	98.4	61-143	WG346689
Acetone	mg/kg	.25	0.212	85.0	44-140	WG346689
Acrylonitrile	mg/kg	.25	0.225	90.0	55-143	WG346689
Benzene	mg/kg	.05	0.0433	86.7	65-128	WG346689
Bromobenzene	mg/kg	.05	0.0503	101.	75-123	WG346689
Bromodichloromethane	mg/kg	.05	0.0450	90.0	66-126	WG346689
Bromoform	mg/kg	.05	0.0439	87.8	64-139	WG346689
Bromomethane	mg/kg	.05	0.0488	97.5	41-175	WG346689
Carbon tetrachloride	mg/kg	.05	0.0417	83.4	60-140	WG346689
Chlorobenzene	mg/kg	.05	0.0512	102.	75-125	WG346689
Chlorodibromomethane	mg/kg	.05	0.0462	92.3	72-137	WG346689
Chloroethane	mg/kg	.05	0.0485	97.1	44-159	WG346689
Chloroform	mg/kg	.05	0.0437	87.5	63-123	WG346689
Chloromethane	mg/kg	.05	0.0380	75.9	42-149	WG346689
cis-1,2-Dichloroethene	mg/kg	.05	0.0444	88.7	71-129	WG346689
cis-1,3-Dichloropropene	mg/kg	.05	0.0445	89.0	73-132	WG346689
Di-isopropyl ether	mg/kg	.05	0.0466	93.2	59-143	WG346689
Dibromomethane	mg/kg	.05	0.0452	90.4	70-130	WG346689
Dichlorodifluoromethane	mg/kg	.05	0.0470	94.1	26-186	WG346689
Ethylbenzene	mg/kg	.05	0.0451	90.2	74-128	WG346689
Hexachlorobutadiene	mg/kg	.05	0.0415	83.1	65-137	WG346689
Isopropylbenzene	mg/kg	.05	0.0453	90.6	73-130	WG346689
Methyl tert-butyl ether	mg/kg	.05	0.0428	85.7	44-148	WG346689
Methylene Chloride	mg/kg	.05	0.0445	89.1	57-129	WG346689
n-Butylbenzene	mg/kg	.05	0.0475	95.0	60-145	WG346689
n-Propylbenzene	mg/kg	.05	0.0442	88.3	71-132	WG346689
Naphthalene	mg/kg	.05	0.0444	88.8	61-142	WG346689
p-Isopropyltoluene	mg/kg	.05	0.0440	88.0	67-138	WG346689
sec-Butylbenzene	mg/kg	.05	0.0458	91.5	71-134	WG346689

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Hart Crowser - Portland, OR
Leon Lahiere
Five Centerpointe Dr, Ste 240

Lake Oswego, OR 97035

Quality Assurance Report
Level II

L332816

March 03, 2008

Styrene	mg/kg	.05	0.0453	90.7	76-133	WG346689

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
tert-Butylbenzene	mg/kg	.05	0.0452	90.4	72-132	WG346689
Tetrachloroethene	mg/kg	.05	0.0444	88.8	65-135	WG346689
Toluene	mg/kg	.05	0.0443	88.7	70-120	WG346689
trans-1,2-Dichloroethene	mg/kg	.05	0.0427	85.4	61-133	WG346689
trans-1,3-Dichloropropene	mg/kg	.05	0.0456	91.1	70-135	WG346689
Trichloroethene	mg/kg	.05	0.0464	92.8	71-126	WG346689
Trichlorofluoromethane	mg/kg	.05	0.0174	34.8	52-147	WG346689
Vinyl chloride	mg/kg	.05	0.0401	80.2	50-151	WG346689
Xylenes, Total	mg/kg	.15	0.135	90.1	74-127	WG346689
Diesel Range Organics (DRO)	mg/kg	30	15.7	52.4	50-150	WG346741
Residual Range Organics (RRO)	mg/kg	30	20.0	66.8	50-150	WG346741
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0498	99.6	73-134	WG346950
1,1,1-Trichloroethane	mg/kg	.05	0.0528	106.	62-135	WG346950
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0514	103.	74-129	WG346950
1,1,2-Trichloroethane	mg/kg	.05	0.0487	97.3	77-124	WG346950
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0404	80.9	49-155	WG346950
1,1-Dichloroethane	mg/kg	.05	0.0522	104.	61-134	WG346950
1,1-Dichloroethene	mg/kg	.05	0.0503	101.	53-136	WG346950
1,1-Dichloropropene	mg/kg	.05	0.0526	105.	63-132	WG346950
1,2,3-Trichlorobenzene	mg/kg	.05	0.0427	85.3	62-146	WG346950
1,2,3-Trichloropropane	mg/kg	.05	0.0522	104.	70-133	WG346950
1,2,3-Trimethylbenzene	mg/kg	.05	0.0502	100.	73-126	WG346950
1,2,4-Trichlorobenzene	mg/kg	.05	0.0426	85.3	61-148	WG346950
1,2,4-Trimethylbenzene	mg/kg	.05	0.0465	93.1	68-135	WG346950
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0498	99.5	61-134	WG346950
1,2-Dibromoethane	mg/kg	.05	0.0492	98.3	76-127	WG346950
1,2-Dichlorobenzene	mg/kg	.05	0.0480	96.1	77-123	WG346950
1,2-Dichloroethane	mg/kg	.05	0.0521	104.	58-141	WG346950
1,2-Dichloropropane	mg/kg	.05	0.0509	102.	71-128	WG346950
1,3,5-Trimethylbenzene	mg/kg	.05	0.0484	96.7	71-133	WG346950
1,3-Dichlorobenzene	mg/kg	.05	0.0516	103.	71-132	WG346950
1,3-Dichloropropane	mg/kg	.05	0.0481	96.2	76-120	WG346950
1,4-Dichlorobenzene	mg/kg	.05	0.0465	93.1	72-123	WG346950
2,2-Dichloropropane	mg/kg	.05	0.0518	104.	50-147	WG346950
2-Butanone (MEK)	mg/kg	.25	0.270	108.	51-131	WG346950
2-Chloroethyl vinyl ether	mg/kg	.25	0.159	63.8	0-188	WG346950
2-Chlorotoluene	mg/kg	.05	0.0516	103.	73-128	WG346950
4-Chlorotoluene	mg/kg	.05	0.0508	102.	72-129	WG346950
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.277	111.	61-143	WG346950
Acetone	mg/kg	.25	0.258	103.	44-140	WG346950
Acrylonitrile	mg/kg	.25	0.266	107.	55-143	WG346950
Benzene	mg/kg	.05	0.0511	102.	65-128	WG346950
Bromobenzene	mg/kg	.05	0.0499	99.8	75-123	WG346950
Bromodichloromethane	mg/kg	.05	0.0520	104.	66-126	WG346950
Bromoform	mg/kg	.05	0.0460	92.0	64-139	WG346950
Bromomethane	mg/kg	.05	0.0549	110.	41-175	WG346950
Carbon tetrachloride	mg/kg	.05	0.0542	108.	60-140	WG346950
Chlorobenzene	mg/kg	.05	0.0505	101.	75-125	WG346950
Chlorodibromomethane	mg/kg	.05	0.0500	100.	72-137	WG346950
Chloroethane	mg/kg	.05	0.0546	109.	44-159	WG346950
Chloroform	mg/kg	.05	0.0520	104.	63-123	WG346950
Chloromethane	mg/kg	.05	0.0514	103.	42-149	WG346950
cis-1,2-Dichloroethene	mg/kg	.05	0.0526	105.	71-129	WG346950
cis-1,3-Dichloropropene	mg/kg	.05	0.0521	104.	73-132	WG346950
Di-isopropyl ether	mg/kg	.05	0.0514	103.	59-143	WG346950
Dibromomethane	mg/kg	.05	0.0467	93.5	70-130	WG346950
Dichlorodifluoromethane	mg/kg	.05	0.0485	97.1	26-186	WG346950

ENVIRONMENTAL
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Quality Assurance Report
Level II

L332816

March 03, 2008

Ethylbenzene	mg/kg	.05	0.0500	100.	74-128	WG346950

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Hexachlorobutadiene	mg/kg	.05	0.0488	97.6	65-137	WG346950
Isopropylbenzene	mg/kg	.05	0.0515	103.	73-130	WG346950
Methyl tert-butyl ether	mg/kg	.05	0.0513	103.	44-148	WG346950
Methylene Chloride	mg/kg	.05	0.0491	98.1	57-129	WG346950
n-Butylbenzene	mg/kg	.05	0.0437	87.4	60-145	WG346950
n-Propylbenzene	mg/kg	.05	0.0502	100.	71-132	WG346950
Naphthalene	mg/kg	.05	0.0412	82.4	61-142	WG346950
p-Isopropyltoluene	mg/kg	.05	0.0453	90.6	67-138	WG346950
sec-Butylbenzene	mg/kg	.05	0.0472	94.5	71-134	WG346950
Styrene	mg/kg	.05	0.0474	94.8	76-133	WG346950
tert-Butylbenzene	mg/kg	.05	0.0462	92.4	72-132	WG346950
Tetrachloroethene	mg/kg	.05	0.0491	98.2	65-135	WG346950
Toluene	mg/kg	.05	0.0495	98.9	70-120	WG346950
trans-1,2-Dichloroethene	mg/kg	.05	0.0522	104.	61-133	WG346950
trans-1,3-Dichloropropene	mg/kg	.05	0.0515	103.	70-135	WG346950
Trichloroethene	mg/kg	.05	0.0497	99.5	71-126	WG346950
Trichlorofluoromethane	mg/kg	.05	0.0536	107.	52-147	WG346950
Vinyl chloride	mg/kg	.05	0.0527	105.	50-151	WG346950
Xylenes, Total	mg/kg	.15	0.151	101.	74-127	WG346950
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0545	109.	73-134	WG347089
1,1,1-Trichloroethane	mg/kg	.05	0.0521	104.	62-135	WG347089
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0470	93.9	74-129	WG347089
1,1,2-Trichloroethane	mg/kg	.05	0.0509	102.	77-124	WG347089
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0448	89.7	49-155	WG347089
1,1-Dichloroethane	mg/kg	.05	0.0504	101.	61-134	WG347089
1,1-Dichloroethene	mg/kg	.05	0.0574	115.	53-136	WG347089
1,1-Dichloropropene	mg/kg	.05	0.0570	114.	63-132	WG347089
1,2,3-Trichlorobenzene	mg/kg	.05	0.0485	97.1	62-146	WG347089
1,2,3-Trichloropropane	mg/kg	.05	0.0502	100.	70-133	WG347089
1,2,3-Trimethylbenzene	mg/kg	.05	0.0514	103.	73-126	WG347089
1,2,4-Trichlorobenzene	mg/kg	.05	0.0456	91.3	61-148	WG347089
1,2,4-Trimethylbenzene	mg/kg	.05	0.0537	107.	68-135	WG347089
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0522	104.	61-134	WG347089
1,2-Dibromoethane	mg/kg	.05	0.0572	114.	76-127	WG347089
1,2-Dichlorobenzene	mg/kg	.05	0.0487	97.5	77-123	WG347089
1,2-Dichloroethane	mg/kg	.05	0.0439	87.7	58-141	WG347089
1,2-Dichloropropane	mg/kg	.05	0.0508	102.	71-128	WG347089
1,3,5-Trimethylbenzene	mg/kg	.05	0.0559	112.	71-133	WG347089
1,3-Dichlorobenzene	mg/kg	.05	0.0481	96.1	71-132	WG347089
1,3-Dichloropropane	mg/kg	.05	0.0540	108.	76-120	WG347089
1,4-Dichlorobenzene	mg/kg	.05	0.0461	92.3	72-123	WG347089
2,2-Dichloropropane	mg/kg	.05	0.0515	103.	50-147	WG347089
2-Butanone (MEK)	mg/kg	.25	0.248	99.2	51-131	WG347089
2-Chloroethyl vinyl ether	mg/kg	.25	0.237	94.7	0-188	WG347089
2-Chlorotoluene	mg/kg	.05	0.0550	110.	73-128	WG347089
4-Chlorotoluene	mg/kg	.05	0.0535	107.	72-129	WG347089
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.226	90.6	61-143	WG347089
Acetone	mg/kg	.25	0.215	85.9	44-140	WG347089
Acrylonitrile	mg/kg	.25	0.242	96.7	55-143	WG347089
Benzene	mg/kg	.05	0.0500	100.	65-128	WG347089
Bromobenzene	mg/kg	.05	0.0516	103.	75-123	WG347089
Bromodichloromethane	mg/kg	.05	0.0502	100.	66-126	WG347089
Bromoform	mg/kg	.05	0.0470	94.0	64-139	WG347089
Bromomethane	mg/kg	.05	0.0429	85.8	41-175	WG347089
Carbon tetrachloride	mg/kg	.05	0.0574	115.	60-140	WG347089
Chlorobenzene	mg/kg	.05	0.0568	114.	75-125	WG347089
Chlorodibromomethane	mg/kg	.05	0.0564	113.	72-137	WG347089
Chloroethane	mg/kg	.05	0.0437	87.5	44-159	WG347089

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Chloroform	mg/kg	.05	0.0478	95.7	63-123	WG347089

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Chloromethane	mg/kg	.05	0.0497	99.4	42-149	WG347089
cis-1,2-Dichloroethene	mg/kg	.05	0.0515	103.	71-129	WG347089
cis-1,3-Dichloropropene	mg/kg	.05	0.0500	100.	73-132	WG347089
Di-isopropyl ether	mg/kg	.05	0.0460	92.0	59-143	WG347089
Dibromomethane	mg/kg	.05	0.0472	94.5	70-130	WG347089
Dichlorodifluoromethane	mg/kg	.05	0.0509	102.	26-186	WG347089
Ethylbenzene	mg/kg	.05	0.0567	113.	74-128	WG347089
Hexachlorobutadiene	mg/kg	.05	0.0578	116.	65-137	WG347089
Isopropylbenzene	mg/kg	.05	0.0592	118.	73-130	WG347089
Methyl tert-butyl ether	mg/kg	.05	0.0459	91.7	44-148	WG347089
Methylene Chloride	mg/kg	.05	0.0506	101.	57-129	WG347089
n-Butylbenzene	mg/kg	.05	0.0543	109.	60-145	WG347089
n-Propylbenzene	mg/kg	.05	0.0559	112.	71-132	WG347089
Naphthalene	mg/kg	.05	0.0479	95.8	61-142	WG347089
p-Isopropyltoluene	mg/kg	.05	0.0540	108.	67-138	WG347089
sec-Butylbenzene	mg/kg	.05	0.0570	114.	71-134	WG347089
Styrene	mg/kg	.05	0.0549	110.	76-133	WG347089
tert-Butylbenzene	mg/kg	.05	0.0527	105.	72-132	WG347089
Tetrachloroethene	mg/kg	.05	0.0631	126.	65-135	WG347089
Toluene	mg/kg	.05	0.0538	108.	70-120	WG347089
trans-1,2-Dichloroethene	mg/kg	.05	0.0553	111.	61-133	WG347089
trans-1,3-Dichloropropene	mg/kg	.05	0.0465	93.0	70-135	WG347089
Trichloroethene	mg/kg	.05	0.0539	108.	71-126	WG347089
Trichlorofluoromethane	mg/kg	.05	0.0486	97.3	52-147	WG347089
Vinyl chloride	mg/kg	.05	0.0509	102.	50-151	WG347089
Xylenes, Total	mg/kg	.15	0.174	116.	74-127	WG347089
Toluene	mg/kg	.05	0.0485	97.1	70-120	WG347350
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.0548	110.	73-134	WG347625
1,1,1-Trichloroethane	mg/kg	.05	0.0564	113.	62-135	WG347625
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.0509	102.	74-129	WG347625
1,1,2-Trichloroethane	mg/kg	.05	0.0510	102.	77-124	WG347625
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.05	0.0429	85.7	49-155	WG347625
1,1-Dichloroethane	mg/kg	.05	0.0527	105.	61-134	WG347625
1,1-Dichloroethene	mg/kg	.05	0.0531	106.	53-136	WG347625
1,1-Dichloropropene	mg/kg	.05	0.0515	103.	63-132	WG347625
1,2,3-Trichlorobenzene	mg/kg	.05	0.0570	114.	62-146	WG347625
1,2,3-Trichloropropane	mg/kg	.05	0.0535	107.	70-133	WG347625
1,2,3-Trimethylbenzene	mg/kg	.05	0.0542	108.	73-126	WG347625
1,2,4-Trichlorobenzene	mg/kg	.05	0.0566	113.	61-148	WG347625
1,2,4-Trimethylbenzene	mg/kg	.05	0.0520	104.	68-135	WG347625
1,2-Dibromo-3-Chloropropane	mg/kg	.05	0.0531	106.	61-134	WG347625
1,2-Dibromoethane	mg/kg	.05	0.0513	103.	76-127	WG347625
1,2-Dichlorobenzene	mg/kg	.05	0.0542	108.	77-123	WG347625
1,2-Dichloroethane	mg/kg	.05	0.0504	101.	58-141	WG347625
1,2-Dichloropropane	mg/kg	.05	0.0522	104.	71-128	WG347625
1,3,5-Trimethylbenzene	mg/kg	.05	0.0515	103.	71-133	WG347625
1,3-Dichlorobenzene	mg/kg	.05	0.0516	103.	71-132	WG347625
1,3-Dichloropropane	mg/kg	.05	0.0502	100.	76-120	WG347625
1,4-Dichlorobenzene	mg/kg	.05	0.0530	106.	72-123	WG347625
2,2-Dichloropropane	mg/kg	.05	0.0655	131.	50-147	WG347625
2-Butanone (MEK)	mg/kg	.25	0.244	97.7	51-131	WG347625
2-Chloroethyl vinyl ether	mg/kg	.25	0.0470	18.8	0-188	WG347625
2-Chlorotoluene	mg/kg	.05	0.0506	101.	73-128	WG347625
4-Chlorotoluene	mg/kg	.05	0.0515	103.	72-129	WG347625
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.254	102.	61-143	WG347625
Acetone	mg/kg	.25	0.241	96.5	44-140	WG347625
Acrylonitrile	mg/kg	.25	0.251	100.	55-143	WG347625

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Benzene	mg/kg	.05	0.0516	103.	65-128	WG347625

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Bromobenzene	mg/kg	.05	0.0519	104.	75-123	WG347625
Bromodichloromethane	mg/kg	.05	0.0534	107.	66-126	WG347625
Bromoform	mg/kg	.05	0.0588	118.	64-139	WG347625
Bromomethane	mg/kg	.05	0.0564	113.	41-175	WG347625
Carbon tetrachloride	mg/kg	.05	0.0666	133.	60-140	WG347625
Chlorobenzene	mg/kg	.05	0.0508	102.	75-125	WG347625
Chlorodibromomethane	mg/kg	.05	0.0554	111.	72-137	WG347625
Chloroethane	mg/kg	.05	0.0664	133.	44-159	WG347625
Chloroform	mg/kg	.05	0.0527	105.	63-123	WG347625
Chloromethane	mg/kg	.05	0.0456	91.3	42-149	WG347625
cis-1,2-Dichloroethene	mg/kg	.05	0.0506	101.	71-129	WG347625
cis-1,3-Dichloropropene	mg/kg	.05	0.0614	123.	73-132	WG347625
Di-isopropyl ether	mg/kg	.05	0.0548	110.	59-143	WG347625
Dibromomethane	mg/kg	.05	0.0508	102.	70-130	WG347625
Dichlorodifluoromethane	mg/kg	.05	0.0584	117.	26-186	WG347625
Ethylbenzene	mg/kg	.05	0.0503	101.	74-128	WG347625
Hexachlorobutadiene	mg/kg	.05	0.0531	106.	65-137	WG347625
Isopropylbenzene	mg/kg	.05	0.0506	101.	73-130	WG347625
Methyl tert-butyl ether	mg/kg	.05	0.0433	86.6	44-148	WG347625
Methylene Chloride	mg/kg	.05	0.0543	109.	57-129	WG347625
n-Butylbenzene	mg/kg	.05	0.0538	108.	60-145	WG347625
n-Propylbenzene	mg/kg	.05	0.0511	102.	71-132	WG347625
Naphthalene	mg/kg	.05	0.0528	106.	61-142	WG347625
p-Isopropyltoluene	mg/kg	.05	0.0514	103.	67-138	WG347625
sec-Butylbenzene	mg/kg	.05	0.0511	102.	71-134	WG347625
Styrene	mg/kg	.05	0.0512	102.	76-133	WG347625
tert-Butylbenzene	mg/kg	.05	0.0507	101.	72-132	WG347625
Tetrachloroethene	mg/kg	.05	0.0497	99.4	65-135	WG347625
Toluene	mg/kg	.05	0.0528	106.	70-120	WG347625
trans-1,2-Dichloroethene	mg/kg	.05	0.0510	102.	61-133	WG347625
trans-1,3-Dichloropropene	mg/kg	.05	0.0600	120.	70-135	WG347625
Trichloroethene	mg/kg	.05	0.0502	100.	71-126	WG347625
Trichlorofluoromethane	mg/kg	.05	0.0514	103.	52-147	WG347625
Vinyl chloride	mg/kg	.05	0.0482	96.4	50-151	WG347625
Xylenes, Total	mg/kg	.15	0.152	101.	74-127	WG347625

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Gasoline Range Organics-NWTPH	mg/kg	4.96	4.88	1.69	20	90	WG346451
1,1,1,2-Tetrachloroethane	mg/kg	0.0505	0.0485	4.00	20	101	WG346688
1,1,1-Trichloroethane	mg/kg	0.0502	0.0493	1.66	20	100	WG346688
1,1,2,2-Tetrachloroethane	mg/kg	0.0496	0.0478	3.86	20	99	WG346688
1,1,2-Trichloroethane	mg/kg	0.0489	0.0472	3.46	20	98	WG346688
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0403	0.0402	0.487	20	81	WG346688
1,1-Dichloroethane	mg/kg	0.0489	0.0481	1.67	20	98	WG346688
1,1-Dichloroethene	mg/kg	0.0481	0.0492	2.27	20	96	WG346688
1,1-Dichloropropene	mg/kg	0.0488	0.0480	1.84	20	98	WG346688
1,2,3-Trichlorobenzene	mg/kg	0.0493	0.0451	8.81	20	99	WG346688
1,2,3-Trichloropropane	mg/kg	0.0506	0.0488	3.64	20	101	WG346688
1,2,3-Trimethylbenzene	mg/kg	0.0515	0.0490	4.81	20	103	WG346688
1,2,4-Trichlorobenzene	mg/kg	0.0488	0.0453	7.41	20	98	WG346688
1,2,4-Trimethylbenzene	mg/kg	0.0529	0.0496	6.51	20	106	WG346688
1,2-Dibromo-3-Chloropropane	mg/kg	0.0539	0.0513	4.90	21	108	WG346688
1,2-Dibromoethane	mg/kg	0.0492	0.0466	5.62	20	98	WG346688
1,2-Dichlorobenzene	mg/kg	0.0502	0.0481	4.29	20	100	WG346688
1,2-Dichloroethane	mg/kg	0.0476	0.0467	1.84	20	95	WG346688
1,2-Dichloropropane	mg/kg	0.0488	0.0485	0.592	20	98	WG346688

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Quality Assurance Report
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1,3,5-Trimethylbenzene	mg/kg	0.0541	0.0505	6.92	20	108	WG346688

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
1,3-Dichlorobenzene	mg/kg	0.0502	0.0470	6.67	20	100	WG346688
1,3-Dichloropropane	mg/kg	0.0485	0.0464	4.36	20	97	WG346688
1,4-Dichlorobenzene	mg/kg	0.0494	0.0473	4.48	20	99	WG346688
2,2-Dichloropropane	mg/kg	0.0420	0.0431	2.53	20	84	WG346688
2-Butanone (MEK)	mg/kg	0.237	0.238	0.291	25	95	WG346688
2-Chloroethyl vinyl ether	mg/kg	0.115	0.157	31.0	39	46	WG346688
2-Chlorotoluene	mg/kg	0.0517	0.0491	5.22	20	103	WG346688
4-Chlorotoluene	mg/kg	0.0501	0.0476	5.05	20	100	WG346688
4-Methyl-2-pentanone (MIBK)	mg/kg	0.262	0.258	1.60	23	105	WG346688
Acetone	mg/kg	0.241	0.244	1.37	25	96	WG346688
Acrylonitrile	mg/kg	0.241	0.236	2.08	20	96	WG346688
Benzene	mg/kg	0.0459	0.0450	1.94	20	92	WG346688
Bromobenzene	mg/kg	0.0497	0.0472	4.97	20	99	WG346688
Bromodichloromethane	mg/kg	0.0500	0.0487	2.48	20	100	WG346688
Bromoform	mg/kg	0.0549	0.0516	6.21	20	110	WG346688
Bromomethane	mg/kg	0.0628	0.0633	0.780	20	126	WG346688
Carbon tetrachloride	mg/kg	0.0494	0.0487	1.55	20	99	WG346688
Chlorobenzene	mg/kg	0.0504	0.0478	5.23	20	101	WG346688
Chlorodibromomethane	mg/kg	0.0509	0.0482	5.30	20	102	WG346688
Chloroethane	mg/kg	0.0479	0.0495	3.27	20	96	WG346688
Chloroform	mg/kg	0.0480	0.0469	2.22	20	96	WG346688
Chloromethane	mg/kg	0.0426	0.0422	0.956	20	85	WG346688
cis-1,2-Dichloroethene	mg/kg	0.0482	0.0464	3.88	20	96	WG346688
cis-1,3-Dichloropropene	mg/kg	0.0498	0.0483	2.92	20	100	WG346688
Di-isopropyl ether	mg/kg	0.0489	0.0484	1.00	20	98	WG346688
Dibromomethane	mg/kg	0.0455	0.0438	3.86	20	91	WG346688
Dichlorodifluoromethane	mg/kg	0.0425	0.0424	0.256	22	85	WG346688
Ethylbenzene	mg/kg	0.0520	0.0498	4.20	20	104	WG346688
Hexachlorobutadiene	mg/kg	0.0497	0.0461	7.52	20	99	WG346688
Isopropylbenzene	mg/kg	0.0529	0.0505	4.67	20	106	WG346688
Methyl tert-butyl ether	mg/kg	0.0476	0.0464	2.60	20	95	WG346688
Methylene Chloride	mg/kg	0.0452	0.0431	4.54	20	90	WG346688
n-Butylbenzene	mg/kg	0.0526	0.0506	3.88	20	105	WG346688
n-Propylbenzene	mg/kg	0.0538	0.0514	4.60	20	108	WG346688
Naphthalene	mg/kg	0.0508	0.0460	9.86	20	102	WG346688
p-Isopropyltoluene	mg/kg	0.0545	0.0509	6.91	20	109	WG346688
sec-Butylbenzene	mg/kg	0.0544	0.0510	6.41	20	109	WG346688
Styrene	mg/kg	0.0544	0.0516	5.29	20	109	WG346688
tert-Butylbenzene	mg/kg	0.0533	0.0508	4.84	20	107	WG346688
Tetrachloroethene	mg/kg	0.0492	0.0463	6.11	20	98	WG346688
Toluene	mg/kg	0.0488	0.0472	3.42	20	98	WG346688
trans-1,2-Dichloroethene	mg/kg	0.0466	0.0449	3.78	20	93	WG346688
trans-1,3-Dichloropropene	mg/kg	0.0516	0.0501	3.03	20	103	WG346688
Trichloroethene	mg/kg	0.0477	0.0461	3.41	20	95	WG346688
Trichlorofluoromethane	mg/kg	0.0462	0.0475	2.79	20	92	WG346688
Vinyl chloride	mg/kg	0.0463	0.0465	0.464	20	93	WG346688
Xylenes, Total	mg/kg	0.156	0.148	5.63	20	104	WG346688
1,1,1,2-Tetrachloroethane	mg/kg	0.0462	0.0454	1.70	20	92	WG346689
1,1,1-Trichloroethane	mg/kg	0.0455	0.0408	11.0	20	91	WG346689
1,1,2,2-Tetrachloroethane	mg/kg	0.0461	0.0459	0.292	20	92	WG346689
1,1,2-Trichloroethane	mg/kg	0.0459	0.0457	0.436	20	92	WG346689
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0354	0.0365	3.20	20	71	WG346689
1,1-Dichloroethane	mg/kg	0.0465	0.0456	2.02	20	93	WG346689
1,1-Dichloroethene	mg/kg	0.0425	0.0421	0.910	20	85	WG346689
1,1-Dichloropropene	mg/kg	0.0450	0.0429	4.61	20	90	WG346689
1,2,3-Trichlorobenzene	mg/kg	0.0530	0.0483	9.15	20	106	WG346689
1,2,3-Trichloropropane	mg/kg	0.0514	0.0470	8.97	20	103	WG346689
1,2,3-Trimethylbenzene	mg/kg	0.0461	0.0433	6.27	20	92	WG346689

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1,2,4-Trichlorobenzene	mg/kg	0.0447	0.0435	2.83	20	89	WG346689

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
1,2,4-Trimethylbenzene	mg/kg	0.0475	0.0476	0.222	20	95	WG346689
1,2-Dibromo-3-Chloropropane	mg/kg	0.0484	0.0449	7.46	21	97	WG346689
1,2-Dibromoethane	mg/kg	0.0439	0.0440	0.196	20	88	WG346689
1,2-Dichlorobenzene	mg/kg	0.0465	0.0443	4.74	20	93	WG346689
1,2-Dichloroethane	mg/kg	0.0454	0.0426	6.52	20	91	WG346689
1,2-Dichloropropane	mg/kg	0.0538	0.0498	7.61	20	108	WG346689
1,3,5-Trimethylbenzene	mg/kg	0.0519	0.0510	1.60	20	104	WG346689
1,3-Dichlorobenzene	mg/kg	0.0495	0.0487	1.59	20	99	WG346689
1,3-Dichloropropane	mg/kg	0.0454	0.0461	1.51	20	91	WG346689
1,4-Dichlorobenzene	mg/kg	0.0515	0.0496	3.84	20	103	WG346689
2,2-Dichloropropane	mg/kg	0.0479	0.0412	15.0	20	96	WG346689
2-Butanone (MEK)	mg/kg	0.297	0.253	15.8	25	119	WG346689
2-Chloroethyl vinyl ether	mg/kg	0.259	0.244	5.87	39	103	WG346689
2-Chlorotoluene	mg/kg	0.0513	0.0510	0.660	20	103	WG346689
4-Chlorotoluene	mg/kg	0.0437	0.0428	2.04	20	87	WG346689
4-Methyl-2-pentanone (MIBK)	mg/kg	0.263	0.246	6.49	23	105	WG346689
Acetone	mg/kg	0.237	0.212	11.1	25	95	WG346689
Acrylonitrile	mg/kg	0.246	0.225	9.08	20	99	WG346689
Benzene	mg/kg	0.0458	0.0433	5.57	20	92	WG346689
Bromobenzene	mg/kg	0.0510	0.0503	1.36	20	102	WG346689
Bromodichloromethane	mg/kg	0.0484	0.0450	7.21	20	97	WG346689
Bromoform	mg/kg	0.0457	0.0439	3.91	20	91	WG346689
Bromomethane	mg/kg	0.0531	0.0488	8.44	20	106	WG346689
Carbon tetrachloride	mg/kg	0.0452	0.0417	8.05	20	90	WG346689
Chlorobenzene	mg/kg	0.0504	0.0512	1.48	20	101	WG346689
Chlorodibromomethane	mg/kg	0.0479	0.0462	3.61	20	96	WG346689
Chloroethane	mg/kg	0.0556	0.0485	13.5	20	111	WG346689
Chloroform	mg/kg	0.0458	0.0437	4.52	20	92	WG346689
Chloromethane	mg/kg	0.0396	0.0380	4.36	20	79	WG346689
cis-1,2-Dichloroethene	mg/kg	0.0470	0.0444	5.76	20	94	WG346689
cis-1,3-Dichloropropene	mg/kg	0.0471	0.0445	5.66	20	94	WG346689
Di-isopropyl ether	mg/kg	0.0469	0.0466	0.578	20	94	WG346689
Dibromomethane	mg/kg	0.0491	0.0452	8.24	20	98	WG346689
Dichlorodifluoromethane	mg/kg	0.0525	0.0470	11.0	22	105	WG346689
Ethylbenzene	mg/kg	0.0444	0.0451	1.62	20	89	WG346689
Hexachlorobutadiene	mg/kg	0.0458	0.0415	9.79	20	92	WG346689
Isopropylbenzene	mg/kg	0.0448	0.0453	1.15	20	90	WG346689
Methyl tert-butyl ether	mg/kg	0.0469	0.0428	9.06	20	94	WG346689
Methylene Chloride	mg/kg	0.0459	0.0445	3.08	20	92	WG346689
n-Butylbenzene	mg/kg	0.0484	0.0475	1.90	20	97	WG346689
n-Propylbenzene	mg/kg	0.0432	0.0442	2.14	20	86	WG346689
Naphthalene	mg/kg	0.0487	0.0444	9.34	20	97	WG346689
p-Isopropyltoluene	mg/kg	0.0447	0.0440	1.53	20	89	WG346689
sec-Butylbenzene	mg/kg	0.0458	0.0458	0.0821	20	92	WG346689
Styrene	mg/kg	0.0442	0.0453	2.53	20	88	WG346689
tert-Butylbenzene	mg/kg	0.0460	0.0452	1.62	20	92	WG346689
Tetrachloroethene	mg/kg	0.0437	0.0444	1.71	20	87	WG346689
Toluene	mg/kg	0.0464	0.0443	4.43	20	93	WG346689
trans-1,2-Dichloroethene	mg/kg	0.0440	0.0427	2.92	20	88	WG346689
trans-1,3-Dichloropropene	mg/kg	0.0482	0.0456	5.55	20	96	WG346689
Trichloroethene	mg/kg	0.0494	0.0464	6.33	20	99	WG346689
Trichlorofluoromethane	mg/kg	0.0488	0.0174	94.8	20	98	WG346689
Vinyl chloride	mg/kg	0.0408	0.0401	1.77	20	82	WG346689
Xylenes, Total	mg/kg	0.133	0.135	1.84	20	89	WG346689
Diesel Range Organics (DRO)	mg/kg	14.8	15.7	5.83	20	49	WG346741
Residual Range Organics (RRO)	mg/kg	17.8	20.0	11.6	0	59	WG346741
1,1,1,2-Tetrachloroethane	mg/kg	0.0535	0.0498	7.05	20	107	WG346950

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1,1,1-Trichloroethane	mg/kg	0.0567	0.0528	7.00	20	113	WG346950

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
1,1,2,2-Tetrachloroethane	mg/kg	0.0548	0.0514	6.33	20	110	WG346950
1,1,2-Trichloroethane	mg/kg	0.0534	0.0487	9.21	20	107	WG346950
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0433	0.0404	6.87	20	87	WG346950
1,1-Dichloroethane	mg/kg	0.0562	0.0522	7.49	20	112	WG346950
1,1-Dichloroethene	mg/kg	0.0554	0.0503	9.75	20	111	WG346950
1,1-Dichloropropene	mg/kg	0.0567	0.0526	7.49	20	113	WG346950
1,2,3-Trichlorobenzene	mg/kg	0.0475	0.0427	10.8	20	95	WG346950
1,2,3-Trichloropropane	mg/kg	0.0550	0.0522	5.13	20	110	WG346950
1,2,3-Trimethylbenzene	mg/kg	0.0542	0.0502	7.56	20	108	WG346950
1,2,4-Trichlorobenzene	mg/kg	0.0482	0.0426	12.2	20	96	WG346950
1,2,4-Trimethylbenzene	mg/kg	0.0499	0.0465	6.96	20	100	WG346950
1,2-Dibromo-3-Chloropropane	mg/kg	0.0535	0.0498	7.20	21	107	WG346950
1,2-Dibromoethane	mg/kg	0.0533	0.0492	8.04	20	107	WG346950
1,2-Dichlorobenzene	mg/kg	0.0519	0.0480	7.81	20	104	WG346950
1,2-Dichloroethane	mg/kg	0.0548	0.0521	5.21	20	110	WG346950
1,2-Dichloropropane	mg/kg	0.0540	0.0509	6.02	20	108	WG346950
1,3,5-Trimethylbenzene	mg/kg	0.0518	0.0484	6.80	20	104	WG346950
1,3-Dichlorobenzene	mg/kg	0.0555	0.0516	7.25	20	111	WG346950
1,3-Dichloropropane	mg/kg	0.0512	0.0481	6.25	20	102	WG346950
1,4-Dichlorobenzene	mg/kg	0.0496	0.0465	6.44	20	99	WG346950
2,2-Dichloropropane	mg/kg	0.0554	0.0518	6.83	20	111	WG346950
2-Butanone (MEK)	mg/kg	0.291	0.270	7.42	25	116	WG346950
2-Chloroethyl vinyl ether	mg/kg	0.161	0.159	0.810	39	64	WG346950
2-Chlorotoluene	mg/kg	0.0551	0.0516	6.61	20	110	WG346950
4-Chlorotoluene	mg/kg	0.0554	0.0508	8.59	20	111	WG346950
4-Methyl-2-pentanone (MIBK)	mg/kg	0.300	0.277	7.99	23	120	WG346950
Acetone	mg/kg	0.272	0.258	5.30	25	109	WG346950
Acrylonitrile	mg/kg	0.285	0.266	6.77	20	114	WG346950
Benzene	mg/kg	0.0549	0.0511	7.25	20	110	WG346950
Bromobenzene	mg/kg	0.0530	0.0499	5.99	20	106	WG346950
Bromodichloromethane	mg/kg	0.0554	0.0520	6.19	20	111	WG346950
Bromoform	mg/kg	0.0491	0.0460	6.58	20	98	WG346950
Bromomethane	mg/kg	0.0576	0.0549	4.83	20	115	WG346950
Carbon tetrachloride	mg/kg	0.0580	0.0542	6.85	20	116	WG346950
Chlorobenzene	mg/kg	0.0542	0.0505	7.19	20	108	WG346950
Chlorodibromomethane	mg/kg	0.0536	0.0500	6.84	20	107	WG346950
Chloroethane	mg/kg	0.0586	0.0546	7.11	20	117	WG346950
Chloroform	mg/kg	0.0553	0.0520	6.18	20	111	WG346950
Chloromethane	mg/kg	0.0540	0.0514	4.87	20	108	WG346950
cis-1,2-Dichloroethene	mg/kg	0.0566	0.0526	7.21	20	113	WG346950
cis-1,3-Dichloropropene	mg/kg	0.0555	0.0521	6.26	20	111	WG346950
Di-isopropyl ether	mg/kg	0.0548	0.0514	6.44	20	110	WG346950
Dibromomethane	mg/kg	0.0504	0.0467	7.66	20	101	WG346950
Dichlorodifluoromethane	mg/kg	0.0523	0.0485	7.46	22	105	WG346950
Ethylbenzene	mg/kg	0.0540	0.0500	7.60	20	108	WG346950
Hexachlorobutadiene	mg/kg	0.0555	0.0488	12.9	20	111	WG346950
Isopropylbenzene	mg/kg	0.0559	0.0515	8.22	20	112	WG346950
Methyl tert-butyl ether	mg/kg	0.0536	0.0513	4.45	20	107	WG346950
Methylene Chloride	mg/kg	0.0517	0.0491	5.31	20	103	WG346950
n-Butylbenzene	mg/kg	0.0481	0.0437	9.54	20	96	WG346950
n-Propylbenzene	mg/kg	0.0541	0.0502	7.62	20	108	WG346950
Naphthalene	mg/kg	0.0469	0.0412	13.0	20	94	WG346950
p-Isopropyltoluene	mg/kg	0.0488	0.0453	7.45	20	98	WG346950
sec-Butylbenzene	mg/kg	0.0510	0.0472	7.72	20	102	WG346950
Styrene	mg/kg	0.0507	0.0474	6.77	20	101	WG346950
tert-Butylbenzene	mg/kg	0.0493	0.0462	6.51	20	99	WG346950
Tetrachloroethene	mg/kg	0.0532	0.0491	7.99	20	106	WG346950
Toluene	mg/kg	0.0540	0.0495	8.69	20	108	WG346950
trans-1,2-Dichloroethene	mg/kg	0.0558	0.0522	6.81	20	112	WG346950

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trans-1,3-Dichloropropene	mg/kg	0.0556	0.0515	7.74	20	111	WG346950

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Trichloroethene	mg/kg	0.0550	0.0497	10.0	20	110	WG346950
Trichlorofluoromethane	mg/kg	0.0569	0.0536	5.95	20	114	WG346950
Vinyl chloride	mg/kg	0.0558	0.0527	5.75	20	112	WG346950
Xylenes, Total	mg/kg	0.162	0.151	7.11	20	108	WG346950
1,1,1,2-Tetrachloroethane	mg/kg	0.0525	0.0545	3.80	20	105	WG347089
1,1,1-Trichloroethane	mg/kg	0.0530	0.0521	1.84	20	106	WG347089
1,1,2,2-Tetrachloroethane	mg/kg	0.0485	0.0470	3.33	20	97	WG347089
1,1,2-Trichloroethane	mg/kg	0.0495	0.0509	2.77	20	99	WG347089
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0424	0.0448	5.55	20	85	WG347089
1,1-Dichloroethane	mg/kg	0.0541	0.0504	7.13	20	108	WG347089
1,1-Dichloroethene	mg/kg	0.0567	0.0574	1.21	20	113	WG347089
1,1-Dichloropropene	mg/kg	0.0560	0.0570	1.85	20	112	WG347089
1,2,3-Trichlorobenzene	mg/kg	0.0554	0.0485	13.2	20	111	WG347089
1,2,3-Trichloropropane	mg/kg	0.0518	0.0502	3.17	20	104	WG347089
1,2,3-Trimethylbenzene	mg/kg	0.0489	0.0514	5.05	20	98	WG347089
1,2,4-Trichlorobenzene	mg/kg	0.0549	0.0456	18.4	20	110	WG347089
1,2,4-Trimethylbenzene	mg/kg	0.0533	0.0537	0.699	20	107	WG347089
1,2-Dibromo-3-Chloropropane	mg/kg	0.0467	0.0522	11.1	21	93	WG347089
1,2-Dibromoethane	mg/kg	0.0552	0.0572	3.46	20	110	WG347089
1,2-Dichlorobenzene	mg/kg	0.0472	0.0487	3.30	20	94	WG347089
1,2-Dichloroethane	mg/kg	0.0518	0.0439	16.6	20	104	WG347089
1,2-Dichloropropane	mg/kg	0.0497	0.0508	2.14	20	99	WG347089
1,3,5-Trimethylbenzene	mg/kg	0.0526	0.0559	6.21	20	105	WG347089
1,3-Dichlorobenzene	mg/kg	0.0508	0.0481	5.51	20	102	WG347089
1,3-Dichloropropane	mg/kg	0.0523	0.0540	3.15	20	105	WG347089
1,4-Dichlorobenzene	mg/kg	0.0469	0.0461	1.57	20	94	WG347089
2,2-Dichloropropane	mg/kg	0.0595	0.0515	14.3	20	119	WG347089
2-Butanone (MEK)	mg/kg	0.258	0.248	4.04	25	103	WG347089
2-Chloroethyl vinyl ether	mg/kg	0.252	0.237	6.12	39	101	WG347089
2-Chlorotoluene	mg/kg	0.0527	0.0550	4.23	20	105	WG347089
4-Chlorotoluene	mg/kg	0.0543	0.0535	1.50	20	109	WG347089
4-Methyl-2-pentanone (MIBK)	mg/kg	0.227	0.226	0.357	23	91	WG347089
Acetone	mg/kg	0.212	0.215	1.17	25	85	WG347089
Acrylonitrile	mg/kg	0.253	0.242	4.42	20	101	WG347089
Benzene	mg/kg	0.0520	0.0500	3.97	20	104	WG347089
Bromobenzene	mg/kg	0.0519	0.0516	0.478	20	104	WG347089
Bromodichloromethane	mg/kg	0.0533	0.0502	6.00	20	107	WG347089
Bromoform	mg/kg	0.0488	0.0470	3.81	20	98	WG347089
Bromomethane	mg/kg	0.0436	0.0429	1.70	20	87	WG347089
Carbon tetrachloride	mg/kg	0.0541	0.0574	5.92	20	108	WG347089
Chlorobenzene	mg/kg	0.0526	0.0568	7.63	20	105	WG347089
Chlorodibromomethane	mg/kg	0.0557	0.0564	1.35	20	111	WG347089
Chloroethane	mg/kg	0.0450	0.0437	2.85	20	90	WG347089
Chloroform	mg/kg	0.0531	0.0478	10.5	20	106	WG347089
Chloromethane	mg/kg	0.0486	0.0497	2.18	20	97	WG347089
cis-1,2-Dichloroethene	mg/kg	0.0560	0.0515	8.52	20	112	WG347089
cis-1,3-Dichloropropene	mg/kg	0.0529	0.0500	5.59	20	106	WG347089
Di-isopropyl ether	mg/kg	0.0535	0.0460	15.1	20	107	WG347089
Dibromomethane	mg/kg	0.0524	0.0472	10.4	20	105	WG347089
Dichlorodifluoromethane	mg/kg	0.0463	0.0509	9.52	22	93	WG347089
Ethylbenzene	mg/kg	0.0489	0.0567	14.7	20	98	WG347089
Hexachlorobutadiene	mg/kg	0.0503	0.0578	13.9	20	101	WG347089
Isopropylbenzene	mg/kg	0.0506	0.0592	15.8	20	101	WG347089
Methyl tert-butyl ether	mg/kg	0.0565	0.0459	20.9	20	113	WG347089
Methylene Chloride	mg/kg	0.0561	0.0506	10.4	20	112	WG347089
n-Butylbenzene	mg/kg	0.0487	0.0543	11.0	20	97	WG347089
n-Propylbenzene	mg/kg	0.0508	0.0559	9.64	20	102	WG347089
Naphthalene	mg/kg	0.0495	0.0479	3.28	20	99	WG347089

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Level II

L332816

March 03, 2008

p-Isopropyltoluene	mg/kg	0.0503	0.0540	7.14	20	101	WG347089

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
sec-Butylbenzene	mg/kg	0.0486	0.0570	15.9	20	97	WG347089
Styrene	mg/kg	0.0537	0.0549	2.15	20	107	WG347089
tert-Butylbenzene	mg/kg	0.0447	0.0527	16.5	20	89	WG347089
Tetrachloroethene	mg/kg	0.0538	0.0631	16.0	20	108	WG347089
Toluene	mg/kg	0.0512	0.0538	4.89	20	102	WG347089
trans-1,2-Dichloroethene	mg/kg	0.0569	0.0553	2.87	20	114	WG347089
trans-1,3-Dichloropropene	mg/kg	0.0529	0.0465	12.9	20	106	WG347089
Trichloroethene	mg/kg	0.0514	0.0539	4.77	20	103	WG347089
Trichlorofluoromethane	mg/kg	0.0463	0.0486	4.93	20	93	WG347089
Vinyl chloride	mg/kg	0.0495	0.0509	2.84	20	99	WG347089
Xylenes, Total	mg/kg	0.153	0.174	12.7	20	102	WG347089
Toluene	mg/kg	0.0490	0.0485	0.852	20	98	WG347350
1,1,1,2-Tetrachloroethane	mg/kg	0.0612	0.0548	11.1	20	122	WG347625
1,1,1-Trichloroethane	mg/kg	0.0634	0.0564	11.7	20	127	WG347625
1,1,2,2-Tetrachloroethane	mg/kg	0.0572	0.0509	11.5	20	114	WG347625
1,1,2-Trichloroethane	mg/kg	0.0576	0.0510	12.3	20	115	WG347625
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0475	0.0429	10.4	20	95	WG347625
1,1-Dichloroethane	mg/kg	0.0583	0.0527	10.1	20	117	WG347625
1,1-Dichloroethene	mg/kg	0.0594	0.0531	11.1	20	119	WG347625
1,1-Dichloropropene	mg/kg	0.0567	0.0515	9.74	20	113	WG347625
1,2,3-Trichlorobenzene	mg/kg	0.0596	0.0570	4.43	20	119	WG347625
1,2,3-Trichloropropane	mg/kg	0.0575	0.0535	7.36	20	115	WG347625
1,2,3-Trimethylbenzene	mg/kg	0.0591	0.0542	8.63	20	118	WG347625
1,2,4-Trichlorobenzene	mg/kg	0.0606	0.0566	6.79	20	121	WG347625
1,2,4-Trimethylbenzene	mg/kg	0.0575	0.0520	10.1	20	115	WG347625
1,2-Dibromo-3-Chloropropane	mg/kg	0.0575	0.0531	8.05	21	115	WG347625
1,2-Dibromoethane	mg/kg	0.0586	0.0513	13.3	20	117	WG347625
1,2-Dichlorobenzene	mg/kg	0.0587	0.0542	7.86	20	117	WG347625
1,2-Dichloroethane	mg/kg	0.0568	0.0504	11.9	20	114	WG347625
1,2-Dichloropropane	mg/kg	0.0580	0.0522	10.4	20	116	WG347625
1,3,5-Trimethylbenzene	mg/kg	0.0576	0.0515	11.1	20	115	WG347625
1,3-Dichlorobenzene	mg/kg	0.0576	0.0516	11.0	20	115	WG347625
1,3-Dichloropropane	mg/kg	0.0570	0.0502	12.7	20	114	WG347625
1,4-Dichlorobenzene	mg/kg	0.0578	0.0530	8.67	20	116	WG347625
2,2-Dichloropropane	mg/kg	0.0719	0.0655	9.30	20	144	WG347625
2-Butanone (MEK)	mg/kg	0.270	0.244	10.1	25	108	WG347625
2-Chloroethyl vinyl ether	mg/kg	0.0501	0.0470	6.42	39	20	WG347625
2-Chlorotoluene	mg/kg	0.0566	0.0506	11.2	20	113	WG347625
4-Chlorotoluene	mg/kg	0.0577	0.0515	11.5	20	115	WG347625
4-Methyl-2-pentanone (MIBK)	mg/kg	0.280	0.254	9.47	23	112	WG347625
Acetone	mg/kg	0.263	0.241	8.52	25	105	WG347625
Acrylonitrile	mg/kg	0.278	0.251	10.3	20	111	WG347625
Benzene	mg/kg	0.0572	0.0516	10.3	20	114	WG347625
Bromobenzene	mg/kg	0.0583	0.0519	11.5	20	117	WG347625
Bromodichloromethane	mg/kg	0.0592	0.0534	10.4	20	118	WG347625
Bromoform	mg/kg	0.0648	0.0588	9.64	20	130	WG347625
Bromomethane	mg/kg	0.0567	0.0564	0.501	20	113	WG347625
Carbon tetrachloride	mg/kg	0.0757	0.0666	12.9	20	151	WG347625
Chlorobenzene	mg/kg	0.0569	0.0508	11.2	20	114	WG347625
Chlorodibromomethane	mg/kg	0.0621	0.0554	11.3	20	124	WG347625
Chloroethane	mg/kg	0.0664	0.0664	0.141	20	133	WG347625
Chloroform	mg/kg	0.0581	0.0527	9.78	20	116	WG347625
Chloromethane	mg/kg	0.0463	0.0456	1.42	20	93	WG347625
cis-1,2-Dichloroethene	mg/kg	0.0561	0.0506	10.2	20	112	WG347625
cis-1,3-Dichloropropene	mg/kg	0.0682	0.0614	10.4	20	136	WG347625
Di-isopropyl ether	mg/kg	0.0601	0.0548	9.25	20	120	WG347625
Dibromomethane	mg/kg	0.0569	0.0508	11.2	20	114	WG347625

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Quality Assurance Report
Level II

L332816

March 03, 2008

Dichlorodifluoromethane	mg/kg	0.0578	0.0584	1.10	22	116	WG347625

Laboratory Control Sample Duplicate

Analyte	Units	LCSD Res	Ref Res	RPD	Limit	%Rec	Batch
Ethylbenzene	mg/kg	0.0558	0.0503	10.4	20	112	WG347625
Hexachlorobutadiene	mg/kg	0.0570	0.0531	7.11	20	114	WG347625
Isopropylbenzene	mg/kg	0.0569	0.0506	11.7	20	114	WG347625
Methyl tert-butyl ether	mg/kg	0.0482	0.0433	10.8	20	96	WG347625
Methylene Chloride	mg/kg	0.0604	0.0543	10.7	20	121	WG347625
n-Butylbenzene	mg/kg	0.0588	0.0538	8.97	20	118	WG347625
n-Propylbenzene	mg/kg	0.0571	0.0511	11.1	20	114	WG347625
Naphthalene	mg/kg	0.0564	0.0528	6.72	20	113	WG347625
p-Isopropyltoluene	mg/kg	0.0571	0.0514	10.4	20	114	WG347625
sec-Butylbenzene	mg/kg	0.0567	0.0511	10.5	20	113	WG347625
Styrene	mg/kg	0.0575	0.0512	11.5	20	115	WG347625
tert-Butylbenzene	mg/kg	0.0563	0.0507	10.6	20	113	WG347625
Tetrachloroethene	mg/kg	0.0555	0.0497	11.0	20	111	WG347625
Toluene	mg/kg	0.0587	0.0528	10.6	20	117	WG347625
trans-1,2-Dichloroethene	mg/kg	0.0561	0.0510	9.53	20	112	WG347625
trans-1,3-Dichloropropene	mg/kg	0.0667	0.0600	10.5	20	133	WG347625
Trichloroethene	mg/kg	0.0560	0.0502	11.0	20	112	WG347625
Trichlorofluoromethane	mg/kg	0.0518	0.0514	0.799	20	104	WG347625
Vinyl chloride	mg/kg	0.0478	0.0482	0.773	20	96	WG347625
Xylenes, Total	mg/kg	0.170	0.152	11.4	20	113	WG347625

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Gasoline Range Organics-NWTPH	mg/kg	23.9	0.0648	5.5	86.8	55-109	L332742-02	WG346451
1,1,1,2-Tetrachloroethane	mg/kg	0.251	0.00	.05	100.	29-145	L332799-37	WG346688
1,1,1-Trichloroethane	mg/kg	0.253	0.00	.05	101.	23-147	L332799-37	WG346688
1,1,2,2-Tetrachloroethane	mg/kg	0.233	0.00	.05	93.3	18-150	L332799-37	WG346688
1,1,2-Trichloroethane	mg/kg	0.241	0.00	.05	96.4	35-140	L332799-37	WG346688
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.232	0.00	.05	92.9	10-145	L332799-37	WG346688
1,1-Dichloroethane	mg/kg	0.238	0.00	.05	95.2	24-148	L332799-37	WG346688
1,1-Dichloroethene	mg/kg	0.264	0.00	.05	106.	10-149	L332799-37	WG346688
1,1-Dichloropropene	mg/kg	0.226	0.00	.05	90.5	10-141	L332799-37	WG346688
1,2,3-Trichlorobenzene	mg/kg	0.182	0.00	.05	73.0	10-129	L332799-37	WG346688
1,2,3-Trichloropropane	mg/kg	0.240	0.00	.05	96.2	30-148	L332799-37	WG346688
1,2,3-Trimethylbenzene	mg/kg	0.231	0.00	.05	92.4	10-137	L332799-37	WG346688
1,2,4-Trichlorobenzene	mg/kg	0.158	0.00	.05	63.0	10-119	L332799-37	WG346688
1,2,4-Trimethylbenzene	mg/kg	0.216	0.00	.05	86.4	10-145	L332799-37	WG346688
1,2-Dibromo-3-Chloropropane	mg/kg	0.257	0.00	.05	103.	19-145	L332799-37	WG346688
1,2-Dibromoethane	mg/kg	0.241	0.00	.05	96.3	24-145	L332799-37	WG346688
1,2-Dichlorobenzene	mg/kg	0.218	0.00	.05	87.4	12-130	L332799-37	WG346688
1,2-Dichloroethane	mg/kg	0.239	0.00	.05	95.6	21-155	L332799-37	WG346688
1,2-Dichloropropane	mg/kg	0.246	0.00	.05	98.3	28-144	L332799-37	WG346688
1,3,5-Trimethylbenzene	mg/kg	0.224	0.00	.05	89.7	10-135	L332799-37	WG346688
1,3-Dichlorobenzene	mg/kg	0.196	0.00	.05	78.5	10-129	L332799-37	WG346688
1,3-Dichloropropane	mg/kg	0.240	0.00	.05	96.0	31-137	L332799-37	WG346688
1,4-Dichlorobenzene	mg/kg	0.196	0.00	.05	78.3	10-121	L332799-37	WG346688
2,2-Dichloropropane	mg/kg	0.217	0.00	.05	86.9	18-144	L332799-37	WG346688
2-Butanone (MEK)	mg/kg	1.11	0.00	.25	89.2	21-143	L332799-37	WG346688
2-Chloroethyl vinyl ether	mg/kg	0.851	0.00	.25	68.1	0-176	L332799-37	WG346688
2-Chlorotoluene	mg/kg	0.219	0.00	.05	87.5	10-132	L332799-37	WG346688
4-Chlorotoluene	mg/kg	0.201	0.00	.05	80.3	10-129	L332799-37	WG346688
4-Methyl-2-pentanone (MIBK)	mg/kg	1.25	0.00	.25	99.6	31-151	L332799-37	WG346688
Acetone	mg/kg	1.17	0.00	.25	93.4	13-158	L332799-37	WG346688
Acrylonitrile	mg/kg	1.17	0.00	.25	94.0	20-154	L332799-37	WG346688
Benzene	mg/kg	0.226	0.00	.05	90.3	16-143	L332799-37	WG346688
Bromobenzene	mg/kg	0.219	0.00	.05	87.7	14-135	L332799-37	WG346688
Bromodichloromethane	mg/kg	0.250	0.00	.05	100.	27-139	L332799-37	WG346688

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Bromoform	mg/kg	0.266	0.00	.05	106.	21-144	L332799-37	WG346688

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Bromomethane	mg/kg	0.341	0.00	.05	137.	0-180	L332799-37	WG346688
Carbon tetrachloride	mg/kg	0.246	0.00	.05	98.3	12-149	L332799-37	WG346688
Chlorobenzene	mg/kg	0.230	0.00	.05	92.1	17-134	L332799-37	WG346688
Chlorodibromomethane	mg/kg	0.251	0.00	.05	101.	28-147	L332799-37	WG346688
Chloroethane	mg/kg	0.279	0.00	.05	111.	0-172	L332799-37	WG346688
Chloroform	mg/kg	0.232	0.00	.05	92.7	28-138	L332799-37	WG346688
Chloromethane	mg/kg	0.224	0.00	.05	89.6	10-158	L332799-37	WG346688
cis-1,2-Dichloroethene	mg/kg	0.232	0.00	.05	92.7	21-147	L332799-37	WG346688
cis-1,3-Dichloropropene	mg/kg	0.241	0.00	.05	96.4	17-145	L332799-37	WG346688
Di-isopropyl ether	mg/kg	0.255	0.00	.05	102.	31-153	L332799-37	WG346688
Dibromomethane	mg/kg	0.223	0.00	.05	89.3	24-147	L332799-37	WG346688
Dichlorodifluoromethane	mg/kg	0.200	0.00	.05	80.2	0-192	L332799-37	WG346688
Ethylbenzene	mg/kg	0.232	0.00	.05	92.9	12-137	L332799-37	WG346688
Hexachlorobutadiene	mg/kg	0.172	0.00	.05	68.8	10-123	L332799-37	WG346688
Isopropylbenzene	mg/kg	0.234	0.00	.05	93.7	14-134	L332799-37	WG346688
Methyl tert-butyl ether	mg/kg	0.246	0.00	.05	98.3	21-157	L332799-37	WG346688
Methylene Chloride	mg/kg	0.220	0.00	.05	88.2	12-149	L332799-37	WG346688
n-Butylbenzene	mg/kg	0.179	0.00	.05	71.8	10-130	L332799-37	WG346688
n-Propylbenzene	mg/kg	0.218	0.00	.05	87.1	10-130	L332799-37	WG346688
Naphthalene	mg/kg	0.221	0.00	.05	88.2	0-146	L332799-37	WG346688
p-Isopropyltoluene	mg/kg	0.206	0.00	.05	82.2	10-131	L332799-37	WG346688
sec-Butylbenzene	mg/kg	0.223	0.00	.05	89.3	10-134	L332799-37	WG346688
Styrene	mg/kg	0.245	0.00	.05	97.9	10-140	L332799-37	WG346688
tert-Butylbenzene	mg/kg	0.240	0.00	.05	96.0	11-137	L332799-37	WG346688
Tetrachloroethene	mg/kg	0.202	0.00	.05	81.0	10-131	L332799-37	WG346688
Toluene	mg/kg	0.231	0.00	.05	92.4	12-136	L332799-37	WG346688
trans-1,2-Dichloroethene	mg/kg	0.217	0.00	.05	86.9	10-143	L332799-37	WG346688
trans-1,3-Dichloropropene	mg/kg	0.246	0.00	.05	98.6	16-147	L332799-37	WG346688
Trichloroethene	mg/kg	0.220	0.00	.05	88.2	10-155	L332799-37	WG346688
Trichlorofluoromethane	mg/kg	0.249	0.00	.05	99.5	10-154	L332799-37	WG346688
Vinyl chloride	mg/kg	0.244	0.00	.05	97.6	10-159	L332799-37	WG346688
Xylenes, Total	mg/kg	0.693	0.00	.15	92.4	10-138	L332799-37	WG346688
1,1,1,2-Tetrachloroethane	mg/kg	0.196	0.00	.05	78.6	29-145	L333023-02	WG346689
1,1,1-Trichloroethane	mg/kg	0.192	0.00	.05	76.9	23-147	L333023-02	WG346689
1,1,2,2-Tetrachloroethane	mg/kg	0.178	0.00	.05	71.4	18-150	L333023-02	WG346689
1,1,2-Trichloroethane	mg/kg	0.195	0.00	.05	78.1	35-140	L333023-02	WG346689
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.158	0.00	.05	63.3	10-145	L333023-02	WG346689
1,1-Dichloroethane	mg/kg	0.204	0.00	.05	81.6	24-148	L333023-02	WG346689
1,1-Dichloroethene	mg/kg	0.186	0.00	.05	74.2	10-149	L333023-02	WG346689
1,1-Dichloropropene	mg/kg	0.188	0.00	.05	75.1	10-141	L333023-02	WG346689
1,2,3-Trichlorobenzene	mg/kg	0.133	0.00	.05	53.2	10-129	L333023-02	WG346689
1,2,3-Trichloropropane	mg/kg	0.199	0.00	.05	79.7	30-148	L333023-02	WG346689
1,2,3-Trimethylbenzene	mg/kg	0.221	0.00	.05	88.3	10-137	L333023-02	WG346689
1,2,4-Trichlorobenzene	mg/kg	0.137	0.00	.05	54.6	10-119	L333023-02	WG346689
1,2,4-Trimethylbenzene	mg/kg	0.186	0.00	.05	74.2	10-145	L333023-02	WG346689
1,2-Dibromo-3-Chloropropane	mg/kg	0.201	0.00	.05	80.3	19-145	L333023-02	WG346689
1,2-Dibromoethane	mg/kg	0.180	0.00	.05	71.9	24-145	L333023-02	WG346689
1,2-Dichlorobenzene	mg/kg	0.193	0.00	.05	77.3	12-130	L333023-02	WG346689
1,2-Dichloroethane	mg/kg	0.194	0.00	.05	77.8	21-155	L333023-02	WG346689
1,2-Dichloropropane	mg/kg	0.241	0.00	.05	96.3	28-144	L333023-02	WG346689
1,3,5-Trimethylbenzene	mg/kg	0.202	0.00	.05	80.9	10-135	L333023-02	WG346689
1,3-Dichlorobenzene	mg/kg	0.176	0.00	.05	70.5	10-129	L333023-02	WG346689
1,3-Dichloropropane	mg/kg	0.192	0.00	.05	76.9	31-137	L333023-02	WG346689
1,4-Dichlorobenzene	mg/kg	0.226	0.00	.05	90.2	10-121	L333023-02	WG346689
2,2-Dichloropropane	mg/kg	0.207	0.00	.05	82.7	18-144	L333023-02	WG346689
2-Butanone (MEK)	mg/kg	1.13	0.00	.25	90.7	21-143	L333023-02	WG346689
2-Chloroethyl vinyl ether	mg/kg	1.08	0.00	.25	86.1	0-176	L333023-02	WG346689
2-Chlorotoluene	mg/kg	0.207	0.00	.05	82.8	10-132	L333023-02	WG346689

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Quality Assurance Report
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4-Chlorotoluene	mg/kg	0.169	0.00	.05	67.7	10-129	L333023-02	WG346689

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
4-Methyl-2-pentanone (MIBK)	mg/kg	1.10	0.00	.25	88.1	31-151	L333023-02	WG346689
Acetone	mg/kg	0.945	0.00	.25	75.6	13-158	L333023-02	WG346689
Acrylonitrile	mg/kg	0.948	0.00	.25	75.8	20-154	L333023-02	WG346689
Benzene	mg/kg	0.196	0.00	.05	78.3	16-143	L333023-02	WG346689
Bromobenzene	mg/kg	0.198	0.00	.05	79.3	14-135	L333023-02	WG346689
Bromodichloromethane	mg/kg	0.204	0.00	.05	81.8	27-139	L333023-02	WG346689
Bromoform	mg/kg	0.173	0.00	.05	69.1	21-144	L333023-02	WG346689
Bromomethane	mg/kg	0.196	0.00	.05	78.6	0-180	L333023-02	WG346689
Carbon tetrachloride	mg/kg	0.190	0.00	.05	76.0	12-149	L333023-02	WG346689
Chlorobenzene	mg/kg	0.208	0.00	.05	83.2	17-134	L333023-02	WG346689
Chlorodibromomethane	mg/kg	0.193	0.00	.05	77.0	28-147	L333023-02	WG346689
Chloroethane	mg/kg	0.208	0.00	.05	83.4	0-172	L333023-02	WG346689
Chloroform	mg/kg	0.198	0.00	.05	79.2	28-138	L333023-02	WG346689
Chloromethane	mg/kg	0.156	0.00	.05	62.2	10-158	L333023-02	WG346689
cis-1,2-Dichloroethene	mg/kg	0.202	0.00	.05	80.6	21-147	L333023-02	WG346689
cis-1,3-Dichloropropene	mg/kg	0.188	0.00	.05	75.1	17-145	L333023-02	WG346689
Di-isopropyl ether	mg/kg	0.212	0.00	.05	84.9	31-153	L333023-02	WG346689
Dibromomethane	mg/kg	0.208	0.00	.05	83.1	24-147	L333023-02	WG346689
Dichlorodifluoromethane	mg/kg	0.192	0.00	.05	76.8	0-192	L333023-02	WG346689
Ethylbenzene	mg/kg	0.184	0.00	.05	73.4	12-137	L333023-02	WG346689
Hexachlorobutadiene	mg/kg	0.139	0.00	.05	55.4	10-123	L333023-02	WG346689
Isopropylbenzene	mg/kg	0.182	0.00	.05	72.7	14-134	L333023-02	WG346689
Methyl tert-butyl ether	mg/kg	0.208	0.00	.05	83.3	21-157	L333023-02	WG346689
Methylene Chloride	mg/kg	0.203	0.00	.05	81.1	12-149	L333023-02	WG346689
n-Butylbenzene	mg/kg	0.206	0.00	.05	82.4	10-130	L333023-02	WG346689
n-Propylbenzene	mg/kg	0.171	0.00	.05	68.4	10-130	L333023-02	WG346689
Naphthalene	mg/kg	0.140	0.00	.05	56.1	0-146	L333023-02	WG346689
p-Isopropyltoluene	mg/kg	0.168	0.00	.05	67.2	10-131	L333023-02	WG346689
sec-Butylbenzene	mg/kg	0.173	0.00	.05	69.4	10-134	L333023-02	WG346689
Styrene	mg/kg	0.176	0.00	.05	70.2	10-140	L333023-02	WG346689
tert-Butylbenzene	mg/kg	0.180	0.00	.05	71.9	11-137	L333023-02	WG346689
Tetrachloroethene	mg/kg	0.183	0.00	.05	73.3	10-131	L333023-02	WG346689
Toluene	mg/kg	0.200	0.00	.05	79.9	12-136	L333023-02	WG346689
trans-1,2-Dichloroethene	mg/kg	0.188	0.00	.05	75.3	10-143	L333023-02	WG346689
trans-1,3-Dichloropropene	mg/kg	0.197	0.00	.05	78.9	16-147	L333023-02	WG346689
Trichloroethene	mg/kg	0.207	0.00	.05	82.9	10-155	L333023-02	WG346689
Trichlorofluoromethane	mg/kg	0.0722	0.00	.05	28.9	10-154	L333023-02	WG346689
Vinyl chloride	mg/kg	0.175	0.00	.05	70.0	10-159	L333023-02	WG346689
Xylenes, Total	mg/kg	0.562	0.00	.15	74.9	10-138	L333023-02	WG346689
Diesel Range Organics (DRO)	mg/kg	29.5	0.00	30	98.2	50-150	L333145-02	WG346741
Residual Range Organics (RRO)	mg/kg	54.0	0.00	30	180.	50-150	L333145-02	WG346741
1,1,1,2-Tetrachloroethane	mg/kg	0.225	0.00	.05	89.9	29-145	L332799-16	WG346950
1,1,1-Trichloroethane	mg/kg	0.207	0.00	.05	82.8	23-147	L332799-16	WG346950
1,1,2,2-Tetrachloroethane	mg/kg	0.236	0.00	.05	94.5	18-150	L332799-16	WG346950
1,1,2-Trichloroethane	mg/kg	0.223	0.00	.05	89.1	35-140	L332799-16	WG346950
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.189	0.00	.05	75.6	10-145	L332799-16	WG346950
1,1-Dichloroethane	mg/kg	0.209	0.00	.05	83.8	24-148	L332799-16	WG346950
1,1-Dichloroethene	mg/kg	0.196	0.00	.05	78.3	10-149	L332799-16	WG346950
1,1-Dichloropropene	mg/kg	0.205	0.00	.05	82.1	10-141	L332799-16	WG346950
1,2,3-Trichlorobenzene	mg/kg	0.213	0.00	.05	85.1	10-129	L332799-16	WG346950
1,2,3-Trichloropropane	mg/kg	0.230	0.00	.05	92.0	30-148	L332799-16	WG346950
1,2,3-Trimethylbenzene	mg/kg	0.229	0.00	.05	91.4	10-137	L332799-16	WG346950
1,2,4-Trichlorobenzene	mg/kg	0.216	0.00	.05	86.4	10-119	L332799-16	WG346950
1,2,4-Trimethylbenzene	mg/kg	0.208	0.00	.05	83.4	10-145	L332799-16	WG346950
1,2-Dibromo-3-Chloropropane	mg/kg	0.225	0.00	.05	90.1	19-145	L332799-16	WG346950
1,2-Dibromoethane	mg/kg	0.219	0.00	.05	87.7	24-145	L332799-16	WG346950
1,2-Dichlorobenzene	mg/kg	0.232	0.00	.05	92.7	12-130	L332799-16	WG346950

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1,2-Dichloroethane	mg/kg	0.225	0.00	.05	90.0	21-155	L332799-16	WG346950

		Matrix Spike						
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dichloropropane	mg/kg	0.214	0.00	.05	85.6	28-144	L332799-16	WG346950
1,3,5-Trimethylbenzene	mg/kg	0.211	0.00	.05	84.4	10-135	L332799-16	WG346950
1,3-Dichlorobenzene	mg/kg	0.244	0.00	.05	97.6	10-129	L332799-16	WG346950
1,3-Dichloropropane	mg/kg	0.214	0.00	.05	85.8	31-137	L332799-16	WG346950
1,4-Dichlorobenzene	mg/kg	0.221	0.00	.05	88.3	10-121	L332799-16	WG346950
2,2-Dichloropropane	mg/kg	0.207	0.00	.05	82.6	18-144	L332799-16	WG346950
2-Butanone (MEK)	mg/kg	1.12	0.00	.25	90.0	21-143	L332799-16	WG346950
2-Chloroethyl vinyl ether	mg/kg	0.803	0.00	.25	64.2	0-176	L332799-16	WG346950
2-Chlorotoluene	mg/kg	0.226	0.00	.05	90.5	10-132	L332799-16	WG346950
4-Chlorotoluene	mg/kg	0.232	0.00	.05	92.7	10-129	L332799-16	WG346950
4-Methyl-2-pentanone (MIBK)	mg/kg	1.24	0.00	.25	99.0	31-151	L332799-16	WG346950
Acetone	mg/kg	1.07	0.00	.25	85.7	13-158	L332799-16	WG346950
Acrylonitrile	mg/kg	1.13	0.00	.25	90.2	20-154	L332799-16	WG346950
Benzene	mg/kg	0.208	0.00	.05	83.2	16-143	L332799-16	WG346950
Bromobenzene	mg/kg	0.223	0.00	.05	89.3	14-135	L332799-16	WG346950
Bromodichloromethane	mg/kg	0.228	0.00	.05	91.2	27-139	L332799-16	WG346950
Bromoform	mg/kg	0.216	0.00	.05	86.6	21-144	L332799-16	WG346950
Bromomethane	mg/kg	0.233	0.00	.05	93.0	0-180	L332799-16	WG346950
Carbon tetrachloride	mg/kg	0.211	0.00	.05	84.5	12-149	L332799-16	WG346950
Chlorobenzene	mg/kg	0.219	0.00	.05	87.6	17-134	L332799-16	WG346950
Chlorodibromomethane	mg/kg	0.229	0.00	.05	91.7	28-147	L332799-16	WG346950
Chloroethane	mg/kg	0.229	0.00	.05	91.6	0-172	L332799-16	WG346950
Chloroform	mg/kg	0.214	0.00	.05	85.4	28-138	L332799-16	WG346950
Chloromethane	mg/kg	0.218	0.00	.05	87.1	10-158	L332799-16	WG346950
cis-1,2-Dichloroethene	mg/kg	0.215	0.00	.05	86.0	21-147	L332799-16	WG346950
cis-1,3-Dichloropropene	mg/kg	0.235	0.00	.05	94.0	17-145	L332799-16	WG346950
Di-isopropyl ether	mg/kg	0.222	0.00	.05	88.8	31-153	L332799-16	WG346950
Dibromomethane	mg/kg	0.215	0.00	.05	86.1	24-147	L332799-16	WG346950
Dichlorodifluoromethane	mg/kg	0.209	0.00	.05	83.7	0-192	L332799-16	WG346950
Ethylbenzene	mg/kg	0.210	0.00	.05	84.2	12-137	L332799-16	WG346950
Hexachlorobutadiene	mg/kg	0.220	0.00	.05	88.0	10-123	L332799-16	WG346950
Isopropylbenzene	mg/kg	0.218	0.00	.05	87.1	14-134	L332799-16	WG346950
Methyl tert-butyl ether	mg/kg	0.234	0.00	.05	93.5	21-157	L332799-16	WG346950
Methylene Chloride	mg/kg	0.201	0.00	.05	80.5	12-149	L332799-16	WG346950
n-Butylbenzene	mg/kg	0.195	0.00	.05	77.9	10-130	L332799-16	WG346950
n-Propylbenzene	mg/kg	0.212	0.00	.05	85.0	10-130	L332799-16	WG346950
Naphthalene	mg/kg	0.194	0.0350	.05	63.4	0-146	L332799-16	WG346950
p-Isopropyltoluene	mg/kg	0.201	0.00	.05	80.2	10-131	L332799-16	WG346950
sec-Butylbenzene	mg/kg	0.201	0.00	.05	80.2	10-134	L332799-16	WG346950
Styrene	mg/kg	0.214	0.00	.05	85.7	10-140	L332799-16	WG346950
tert-Butylbenzene	mg/kg	0.197	0.00	.05	78.9	11-137	L332799-16	WG346950
Tetrachloroethene	mg/kg	0.202	0.00	.05	80.7	10-131	L332799-16	WG346950
Toluene	mg/kg	0.211	0.00	.05	84.3	12-136	L332799-16	WG346950
trans-1,2-Dichloroethene	mg/kg	0.205	0.00	.05	81.8	10-143	L332799-16	WG346950
trans-1,3-Dichloropropene	mg/kg	0.241	0.00	.05	96.4	16-147	L332799-16	WG346950
Trichloroethene	mg/kg	0.208	0.00	.05	83.3	10-155	L332799-16	WG346950
Trichlorofluoromethane	mg/kg	0.217	0.00	.05	86.6	10-154	L332799-16	WG346950
Vinyl chloride	mg/kg	0.222	0.00	.05	88.8	10-159	L332799-16	WG346950
Xylenes, Total	mg/kg	0.650	0.00	.15	86.6	10-138	L332799-16	WG346950
1,1,1,2-Tetrachloroethane	mg/kg	2.11	0.00	.05	92.8	29-145	L333091-09	WG347089
1,1,1-Trichloroethane	mg/kg	1.40	0.00	.05	61.4	23-147	L333091-09	WG347089
1,1,2,2-Tetrachloroethane	mg/kg	2.10	0.00	.05	92.3	18-150	L333091-09	WG347089
1,1,2-Trichloroethane	mg/kg	2.10	0.00	.05	92.3	35-140	L333091-09	WG347089
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	1.68	0.00	.05	73.7	10-145	L333091-09	WG347089
1,1-Dichloroethane	mg/kg	1.47	0.00	.05	64.8	24-148	L333091-09	WG347089
1,1-Dichloroethene	mg/kg	1.82	0.00	.05	80.2	10-149	L333091-09	WG347089
1,1-Dichloropropene	mg/kg	1.64	0.00	.05	72.2	10-141	L333091-09	WG347089
1,2,3-Trichlorobenzene	mg/kg	2.12	0.00	.05	93.4	10-129	L333091-09	WG347089

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1,2,3-Trichloropropane	mg/kg	2.36	0.00	.05	104.	30-148	L333091-09	WG347089

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2,3-Trimethylbenzene	mg/kg	2.07	0.00	.05	91.0	10-137	L333091-09	WG347089
1,2,4-Trichlorobenzene	mg/kg	2.20	0.00	.05	96.9	10-119	L333091-09	WG347089
1,2,4-Trimethylbenzene	mg/kg	2.30	0.00	.05	101.	10-145	L333091-09	WG347089
1,2-Dibromo-3-Chloropropane	mg/kg	2.44	0.00	.05	107.	19-145	L333091-09	WG347089
1,2-Dibromoethane	mg/kg	2.31	0.00	.05	102.	24-145	L333091-09	WG347089
1,2-Dichlorobenzene	mg/kg	2.07	0.00	.05	91.1	12-130	L333091-09	WG347089
1,2-Dichloroethane	mg/kg	1.23	0.00	.05	54.1	21-155	L333091-09	WG347089
1,2-Dichloropropane	mg/kg	1.53	0.00	.05	67.3	28-144	L333091-09	WG347089
1,3,5-Trimethylbenzene	mg/kg	2.28	0.00	.05	100.	10-135	L333091-09	WG347089
1,3-Dichlorobenzene	mg/kg	2.21	0.00	.05	97.3	10-129	L333091-09	WG347089
1,3-Dichloropropane	mg/kg	2.11	0.00	.05	92.9	31-137	L333091-09	WG347089
1,4-Dichlorobenzene	mg/kg	2.07	0.00	.05	90.8	10-121	L333091-09	WG347089
2,2-Dichloropropane	mg/kg	1.41	0.00	.05	62.0	18-144	L333091-09	WG347089
2-Butanone (MEK)	mg/kg	9.94	0.00	.25	87.4	21-143	L333091-09	WG347089
2-Chloroethyl vinyl ether	mg/kg	7.56	0.00	.25	66.5	0-176	L333091-09	WG347089
2-Chlorotoluene	mg/kg	2.36	0.00	.05	104.	10-132	L333091-09	WG347089
4-Chlorotoluene	mg/kg	2.41	0.00	.05	106.	10-129	L333091-09	WG347089
4-Methyl-2-pentanone (MIBK)	mg/kg	8.06	0.00	.25	70.8	31-151	L333091-09	WG347089
Acetone	mg/kg	8.22	0.00	.25	72.2	13-158	L333091-09	WG347089
Acrylonitrile	mg/kg	9.08	0.00	.25	79.9	20-154	L333091-09	WG347089
Benzene	mg/kg	1.48	0.00	.05	64.9	16-143	L333091-09	WG347089
Bromobenzene	mg/kg	2.15	0.00	.05	94.3	14-135	L333091-09	WG347089
Bromodichloromethane	mg/kg	1.48	0.00	.05	65.2	27-139	L333091-09	WG347089
Bromoform	mg/kg	1.86	0.00	.05	81.9	21-144	L333091-09	WG347089
Bromomethane	mg/kg	0.794	0.00	.05	34.9	0-180	L333091-09	WG347089
Carbon tetrachloride	mg/kg	1.43	0.00	.05	63.0	12-149	L333091-09	WG347089
Chlorobenzene	mg/kg	2.36	0.00	.05	104.	17-134	L333091-09	WG347089
Chlorodibromomethane	mg/kg	2.12	0.00	.05	93.3	28-147	L333091-09	WG347089
Chloroethane	mg/kg	0.916	0.00	.05	40.3	0-172	L333091-09	WG347089
Chloroform	mg/kg	1.42	0.00	.05	62.3	28-138	L333091-09	WG347089
Chloromethane	mg/kg	1.39	0.00	.05	61.2	10-158	L333091-09	WG347089
cis-1,2-Dichloroethene	mg/kg	1.57	0.00	.05	68.9	21-147	L333091-09	WG347089
cis-1,3-Dichloropropene	mg/kg	1.51	0.00	.05	66.3	17-145	L333091-09	WG347089
Di-isopropyl ether	mg/kg	1.37	0.00	.05	60.2	31-153	L333091-09	WG347089
Dibromomethane	mg/kg	1.47	0.00	.05	64.8	24-147	L333091-09	WG347089
Dichlorodifluoromethane	mg/kg	1.58	0.00	.05	69.5	0-192	L333091-09	WG347089
Ethylbenzene	mg/kg	2.25	0.00	.05	98.9	12-137	L333091-09	WG347089
Hexachlorobutadiene	mg/kg	2.15	0.00	.05	94.5	10-123	L333091-09	WG347089
Isopropylbenzene	mg/kg	2.33	0.00	.05	103.	14-134	L333091-09	WG347089
Methyl tert-butyl ether	mg/kg	1.38	0.00	.05	60.6	21-157	L333091-09	WG347089
Methylene Chloride	mg/kg	1.57	0.00	.05	69.1	12-149	L333091-09	WG347089
n-Butylbenzene	mg/kg	2.22	0.00	.05	97.5	10-130	L333091-09	WG347089
n-Propylbenzene	mg/kg	2.29	0.00	.05	101.	10-130	L333091-09	WG347089
Naphthalene	mg/kg	2.08	0.00	.05	91.3	0-146	L333091-09	WG347089
p-Isopropyltoluene	mg/kg	2.23	0.00	.05	98.2	10-131	L333091-09	WG347089
sec-Butylbenzene	mg/kg	2.13	0.00	.05	93.5	10-134	L333091-09	WG347089
Styrene	mg/kg	2.32	0.00	.05	102.	10-140	L333091-09	WG347089
tert-Butylbenzene	mg/kg	2.00	0.00	.05	87.9	11-137	L333091-09	WG347089
Tetrachloroethene	mg/kg	2.58	0.00	.05	114.	10-131	L333091-09	WG347089
Toluene	mg/kg	1.63	0.00	.05	71.9	12-136	L333091-09	WG347089
trans-1,2-Dichloroethene	mg/kg	1.66	0.00	.05	73.0	10-143	L333091-09	WG347089
trans-1,3-Dichloropropene	mg/kg	1.44	0.00	.05	63.2	16-147	L333091-09	WG347089
Trichloroethene	mg/kg	1.70	0.00	.05	74.7	10-155	L333091-09	WG347089
Trichlorofluoromethane	mg/kg	1.25	0.00	.05	55.0	10-154	L333091-09	WG347089
Vinyl chloride	mg/kg	1.40	0.00	.05	61.4	10-159	L333091-09	WG347089
Xylenes, Total	mg/kg	7.06	0.00	.15	104.	10-138	L333091-09	WG347089
Toluene	mg/kg	2.38	0.00	.05	102.	12-136	L332983-01	WG347350

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Lake Oswego, OR 97035

Quality Assurance Report
Level II

L332816

March 03, 2008

1,1,1,2-Tetrachloroethane	mg/kg	2.09	0.00	.05	95.9	29-145	L333083-01	WG347625

		Matrix Spike						
Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/kg	1.87	0.00	.05	85.8	23-147	L333083-01	WG347625
1,1,2,2-Tetrachloroethane	mg/kg	2.18	0.00	.05	100.	18-150	L333083-01	WG347625
1,1,2-Trichloroethane	mg/kg	2.04	0.00	.05	93.6	35-140	L333083-01	WG347625
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.626	0.00	.05	28.8	10-145	L333083-01	WG347625
1,1-Dichloroethane	mg/kg	1.81	0.00	.05	83.2	24-148	L333083-01	WG347625
1,1-Dichloroethene	mg/kg	0.618	0.00	.05	28.4	10-149	L333083-01	WG347625
1,1-Dichloropropene	mg/kg	1.63	0.00	.05	75.0	10-141	L333083-01	WG347625
1,2,3-Trichlorobenzene	mg/kg	2.29	0.00	.05	105.	10-129	L333083-01	WG347625
1,2,3-Trichloropropane	mg/kg	2.17	0.00	.05	99.8	30-148	L333083-01	WG347625
1,2,3-Trimethylbenzene	mg/kg	2.13	0.00	.05	97.8	10-137	L333083-01	WG347625
1,2,4-Trichlorobenzene	mg/kg	2.36	0.00	.05	108.	10-119	L333083-01	WG347625
1,2,4-Trimethylbenzene	mg/kg	2.04	0.00	.05	94.0	10-145	L333083-01	WG347625
1,2-Dibromo-3-Chloropropane	mg/kg	2.10	0.00	.05	96.5	19-145	L333083-01	WG347625
1,2-Dibromoethane	mg/kg	1.98	0.00	.05	91.1	24-145	L333083-01	WG347625
1,2-Dichlorobenzene	mg/kg	2.17	0.00	.05	99.7	12-130	L333083-01	WG347625
1,2-Dichloroethane	mg/kg	1.81	0.00	.05	83.0	21-155	L333083-01	WG347625
1,2-Dichloropropane	mg/kg	1.88	0.00	.05	86.5	28-144	L333083-01	WG347625
1,3,5-Trimethylbenzene	mg/kg	2.01	0.00	.05	92.4	10-135	L333083-01	WG347625
1,3-Dichlorobenzene	mg/kg	2.11	0.00	.05	97.0	10-129	L333083-01	WG347625
1,3-Dichloropropane	mg/kg	1.99	0.00	.05	91.5	31-137	L333083-01	WG347625
1,4-Dichlorobenzene	mg/kg	2.13	0.00	.05	97.8	10-121	L333083-01	WG347625
2,2-Dichloropropane	mg/kg	2.31	0.00	.05	106.	18-144	L333083-01	WG347625
2-Butanone (MEK)	mg/kg	9.26	0.00	.25	85.2	21-143	L333083-01	WG347625
2-Chloroethyl vinyl ether	mg/kg	4.30	0.00	.25	39.6	0-176	L333083-01	WG347625
2-Chlorotoluene	mg/kg	2.01	0.00	.05	92.6	10-132	L333083-01	WG347625
4-Chlorotoluene	mg/kg	2.06	0.00	.05	94.8	10-129	L333083-01	WG347625
4-Methyl-2-pentanone (MIBK)	mg/kg	10.5	0.00	.25	96.6	31-151	L333083-01	WG347625
Acetone	mg/kg	8.90	0.00	.25	81.8	13-158	L333083-01	WG347625
Acrylonitrile	mg/kg	7.37	0.00	.25	67.8	20-154	L333083-01	WG347625
Benzene	mg/kg	1.73	0.00	.05	79.7	16-143	L333083-01	WG347625
Bromobenzene	mg/kg	2.07	0.00	.05	95.0	14-135	L333083-01	WG347625
Bromodichloromethane	mg/kg	1.86	0.00	.05	85.3	27-139	L333083-01	WG347625
Bromoform	mg/kg	2.05	0.00	.05	94.5	21-144	L333083-01	WG347625
Bromomethane	mg/kg	1.37	0.00	.05	62.8	0-180	L333083-01	WG347625
Carbon tetrachloride	mg/kg	1.80	0.00	.05	82.8	12-149	L333083-01	WG347625
Chlorobenzene	mg/kg	1.93	0.00	.05	88.8	17-134	L333083-01	WG347625
Chlorodibromomethane	mg/kg	2.02	0.00	.05	92.7	28-147	L333083-01	WG347625
Chloroethane	mg/kg	0.552	0.00	.05	25.4	0-172	L333083-01	WG347625
Chloroform	mg/kg	1.88	0.00	.05	86.4	28-138	L333083-01	WG347625
Chloromethane	mg/kg	1.88	0.00	.05	86.3	10-158	L333083-01	WG347625
cis-1,2-Dichloroethene	mg/kg	1.74	0.00	.05	80.2	21-147	L333083-01	WG347625
cis-1,3-Dichloropropene	mg/kg	2.19	0.00	.05	101.	17-145	L333083-01	WG347625
Di-isopropyl ether	mg/kg	2.08	0.00	.05	95.6	31-153	L333083-01	WG347625
Dibromomethane	mg/kg	1.81	0.00	.05	83.4	24-147	L333083-01	WG347625
Dichlorodifluoromethane	mg/kg	0.982	0.00	.05	45.1	0-192	L333083-01	WG347625
Ethylbenzene	mg/kg	1.86	0.00	.05	85.4	12-137	L333083-01	WG347625
Hexachlorobutadiene	mg/kg	2.15	0.00	.05	98.9	10-123	L333083-01	WG347625
Isopropylbenzene	mg/kg	1.95	0.00	.05	89.7	14-134	L333083-01	WG347625
Methyl tert-butyl ether	mg/kg	2.07	0.00	.05	95.3	21-157	L333083-01	WG347625
Methylene Chloride	mg/kg	1.42	0.00	.05	65.5	12-149	L333083-01	WG347625
n-Butylbenzene	mg/kg	2.13	0.00	.05	97.7	10-130	L333083-01	WG347625
n-Propylbenzene	mg/kg	1.99	0.00	.05	91.3	10-130	L333083-01	WG347625
Naphthalene	mg/kg	2.15	0.00	.05	99.0	0-146	L333083-01	WG347625
p-Isopropyltoluene	mg/kg	2.06	0.00	.05	94.7	10-131	L333083-01	WG347625
sec-Butylbenzene	mg/kg	2.03	0.00	.05	93.3	10-134	L333083-01	WG347625
Styrene	mg/kg	2.04	0.00	.05	93.6	10-140	L333083-01	WG347625
tert-Butylbenzene	mg/kg	2.02	0.00	.05	93.1	11-137	L333083-01	WG347625
Tetrachloroethene	mg/kg	1.67	0.00	.05	76.9	10-131	L333083-01	WG347625
Toluene	mg/kg	1.85	0.00	.05	84.9	12-136	L333083-01	WG347625

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Quality Assurance Report
Level II

March 03, 2008

L332816

trans-1,2-Dichloroethene	mg/kg	1.52	0.00	.05	69.8	10-143	L333083-01	WG347625

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
trans-1,3-Dichloropropene	mg/kg	2.24	0.00	.05	103.	16-147	L333083-01	WG347625
Trichloroethene	mg/kg	1.69	0.00	.05	77.5	10-155	L333083-01	WG347625
Trichlorofluoromethane	mg/kg	1.26	0.00	.05	57.9	10-154	L333083-01	WG347625
Vinyl chloride	mg/kg	0.913	0.00	.05	42.0	10-159	L333083-01	WG347625
Xylenes, Total	mg/kg	5.71	0.00	.15	87.5	10-138	L333083-01	WG347625

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Gasoline Range Organics-NWTPH	mg/kg	22.7	23.9	5.50	20	82.2	L332742-02	WG346451
1,1,1,2-Tetrachloroethane	mg/kg	0.261	0.251	4.14	31	104.	L332799-37	WG346688
1,1,1-Trichloroethane	mg/kg	0.252	0.253	0.214	32	101.	L332799-37	WG346688
1,1,2,2-Tetrachloroethane	mg/kg	0.237	0.233	1.59	33	94.8	L332799-37	WG346688
1,1,2-Trichloroethane	mg/kg	0.244	0.241	1.39	29	97.8	L332799-37	WG346688
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.229	0.232	1.50	35	91.5	L332799-37	WG346688
1,1-Dichloroethane	mg/kg	0.240	0.238	0.671	31	95.9	L332799-37	WG346688
1,1-Dichloroethene	mg/kg	0.240	0.264	9.72	34	96.0	L332799-37	WG346688
1,1-Dichloropropene	mg/kg	0.230	0.226	1.42	34	91.8	L332799-37	WG346688
1,2,3-Trichlorobenzene	mg/kg	0.185	0.182	1.60	43	74.1	L332799-37	WG346688
1,2,3-Trichloropropane	mg/kg	0.242	0.240	0.563	32	96.7	L332799-37	WG346688
1,2,3-Trimethylbenzene	mg/kg	0.232	0.231	0.316	36	92.7	L332799-37	WG346688
1,2,4-Trichlorobenzene	mg/kg	0.158	0.158	0.360	44	63.3	L332799-37	WG346688
1,2,4-Trimethylbenzene	mg/kg	0.224	0.216	3.80	41	89.8	L332799-37	WG346688
1,2-Dibromo-3-Chloropropane	mg/kg	0.253	0.257	1.53	35	101.	L332799-37	WG346688
1,2-Dibromoethane	mg/kg	0.241	0.241	0.0247	31	96.3	L332799-37	WG346688
1,2-Dichlorobenzene	mg/kg	0.223	0.218	2.15	35	89.3	L332799-37	WG346688
1,2-Dichloroethane	mg/kg	0.233	0.239	2.49	29	93.3	L332799-37	WG346688
1,2-Dichloropropane	mg/kg	0.251	0.246	2.27	30	101.	L332799-37	WG346688
1,3,5-Trimethylbenzene	mg/kg	0.235	0.224	4.79	39	94.1	L332799-37	WG346688
1,3-Dichlorobenzene	mg/kg	0.203	0.196	3.26	38	81.1	L332799-37	WG346688
1,3-Dichloropropane	mg/kg	0.241	0.240	0.246	29	96.2	L332799-37	WG346688
1,4-Dichlorobenzene	mg/kg	0.195	0.196	0.376	36	78.0	L332799-37	WG346688
2,2-Dichloropropane	mg/kg	0.209	0.217	4.03	32	83.5	L332799-37	WG346688
2-Butanone (MEK)	mg/kg	1.04	1.11	7.26	37	82.9	L332799-37	WG346688
2-Chloroethyl vinyl ether	mg/kg	0.672	0.851	23.5	50	53.8	L332799-37	WG346688
2-Chlorotoluene	mg/kg	0.226	0.219	3.12	37	90.2	L332799-37	WG346688
4-Chlorotoluene	mg/kg	0.208	0.201	3.52	38	83.2	L332799-37	WG346688
4-Methyl-2-pentanone (MIBK)	mg/kg	1.18	1.25	5.45	36	94.3	L332799-37	WG346688
Acetone	mg/kg	1.08	1.17	8.21	34	86.0	L332799-37	WG346688
Acrylonitrile	mg/kg	1.08	1.17	8.35	35	86.4	L332799-37	WG346688
Benzene	mg/kg	0.227	0.226	0.620	31	90.9	L332799-37	WG346688
Bromobenzene	mg/kg	0.229	0.219	4.46	39	91.7	L332799-37	WG346688
Bromodichloromethane	mg/kg	0.254	0.250	1.46	30	102.	L332799-37	WG346688
Bromoform	mg/kg	0.269	0.266	1.26	34	108.	L332799-37	WG346688
Bromomethane	mg/kg	0.332	0.341	2.77	41	133.	L332799-37	WG346688
Carbon tetrachloride	mg/kg	0.243	0.246	1.21	34	97.2	L332799-37	WG346688
Chlorobenzene	mg/kg	0.239	0.230	3.69	34	95.6	L332799-37	WG346688
Chlorodibromomethane	mg/kg	0.259	0.251	3.04	32	104.	L332799-37	WG346688
Chloroethane	mg/kg	0.259	0.279	7.14	38	104.	L332799-37	WG346688
Chloroform	mg/kg	0.239	0.232	2.99	30	95.6	L332799-37	WG346688
Chloromethane	mg/kg	0.225	0.224	0.572	35	90.1	L332799-37	WG346688
cis-1,2-Dichloroethene	mg/kg	0.231	0.232	0.413	31	92.3	L332799-37	WG346688
cis-1,3-Dichloropropene	mg/kg	0.246	0.241	2.13	32	98.5	L332799-37	WG346688
Di-isopropyl ether	mg/kg	0.250	0.255	1.66	29	100.	L332799-37	WG346688
Dibromomethane	mg/kg	0.224	0.223	0.388	30	89.6	L332799-37	WG346688
Dichlorodifluoromethane	mg/kg	0.208	0.200	3.61	38	83.1	L332799-37	WG346688
Ethylbenzene	mg/kg	0.242	0.232	4.21	36	96.9	L332799-37	WG346688
Hexachlorobutadiene	mg/kg	0.175	0.172	1.93	50	70.1	L332799-37	WG346688

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Quality Assurance Report
Level II

L332816

March 03, 2008

Isopropylbenzene	mg/kg	0.246	0.234	4.76	37	98.3	L332799-37	WG346688

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Methyl tert-butyl ether	mg/kg	0.238	0.246	3.33	31	95.1	L332799-37	WG346688
Methylene Chloride	mg/kg	0.222	0.220	0.582	31	88.7	L332799-37	WG346688
n-Butylbenzene	mg/kg	0.179	0.179	0.105	48	71.7	L332799-37	WG346688
n-Propylbenzene	mg/kg	0.226	0.218	3.86	40	90.5	L332799-37	WG346688
Naphthalene	mg/kg	0.224	0.221	1.58	43	89.6	L332799-37	WG346688
p-Isopropyltoluene	mg/kg	0.212	0.206	3.14	43	84.8	L332799-37	WG346688
sec-Butylbenzene	mg/kg	0.232	0.223	3.63	43	92.6	L332799-37	WG346688
Styrene	mg/kg	0.251	0.245	2.45	35	100.	L332799-37	WG346688
tert-Butylbenzene	mg/kg	0.251	0.240	4.34	39	100.	L332799-37	WG346688
Tetrachloroethene	mg/kg	0.216	0.202	6.32	35	86.3	L332799-37	WG346688
Toluene	mg/kg	0.239	0.231	3.37	32	95.6	L332799-37	WG346688
trans-1,2-Dichloroethene	mg/kg	0.223	0.217	2.57	33	89.1	L332799-37	WG346688
trans-1,3-Dichloropropene	mg/kg	0.247	0.246	0.182	32	98.7	L332799-37	WG346688
Trichloroethene	mg/kg	0.231	0.220	4.88	33	92.6	L332799-37	WG346688
Trichlorofluoromethane	mg/kg	0.236	0.249	5.12	32	94.5	L332799-37	WG346688
Vinyl chloride	mg/kg	0.244	0.244	0.104	36	97.7	L332799-37	WG346688
Xylenes, Total	mg/kg	0.722	0.693	4.12	36	96.3	L332799-37	WG346688
1,1,1,2-Tetrachloroethane	mg/kg	0.210	0.196	6.70	31	84.0	L333023-02	WG346689
1,1,1-Trichloroethane	mg/kg	0.213	0.192	10.3	32	85.3	L333023-02	WG346689
1,1,2,2-Tetrachloroethane	mg/kg	0.191	0.178	6.99	33	76.5	L333023-02	WG346689
1,1,2-Trichloroethane	mg/kg	0.209	0.195	7.02	29	83.8	L333023-02	WG346689
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.165	0.158	4.04	35	66.0	L333023-02	WG346689
1,1-Dichloroethane	mg/kg	0.213	0.204	4.24	31	85.2	L333023-02	WG346689
1,1-Dichloroethene	mg/kg	0.191	0.186	2.96	34	76.5	L333023-02	WG346689
1,1-Dichloropropene	mg/kg	0.201	0.188	6.99	34	80.5	L333023-02	WG346689
1,2,3-Trichlorobenzene	mg/kg	0.124	0.133	7.06	43	49.6	L333023-02	WG346689
1,2,3-Trichloropropane	mg/kg	0.196	0.199	1.52	32	78.5	L333023-02	WG346689
1,2,3-Trimethylbenzene	mg/kg	0.224	0.221	1.50	36	89.7	L333023-02	WG346689
1,2,4-Trichlorobenzene	mg/kg	0.128	0.137	6.68	44	51.1	L333023-02	WG346689
1,2,4-Trimethylbenzene	mg/kg	0.188	0.186	1.56	41	75.4	L333023-02	WG346689
1,2-Dibromo-3-Chloropropane	mg/kg	0.218	0.201	8.24	35	87.2	L333023-02	WG346689
1,2-Dibromoethane	mg/kg	0.190	0.180	5.40	31	75.9	L333023-02	WG346689
1,2-Dichlorobenzene	mg/kg	0.195	0.193	0.691	35	77.9	L333023-02	WG346689
1,2-Dichloroethane	mg/kg	0.214	0.194	9.66	29	85.7	L333023-02	WG346689
1,2-Dichloropropane	mg/kg	0.251	0.241	4.22	30	100.	L333023-02	WG346689
1,3,5-Trimethylbenzene	mg/kg	0.204	0.202	0.916	39	81.6	L333023-02	WG346689
1,3-Dichlorobenzene	mg/kg	0.176	0.176	0.0032	38	70.5	L333023-02	WG346689
1,3-Dichloropropane	mg/kg	0.207	0.192	7.53	29	83.0	L333023-02	WG346689
1,4-Dichlorobenzene	mg/kg	0.235	0.226	4.18	36	94.1	L333023-02	WG346689
2,2-Dichloropropane	mg/kg	0.226	0.207	8.84	32	90.3	L333023-02	WG346689
2-Butanone (MEK)	mg/kg	1.19	1.13	4.43	37	94.8	L333023-02	WG346689
2-Chloroethyl vinyl ether	mg/kg	1.12	1.08	4.09	50	89.7	L333023-02	WG346689
2-Chlorotoluene	mg/kg	0.208	0.207	0.546	37	83.3	L333023-02	WG346689
4-Chlorotoluene	mg/kg	0.170	0.169	0.352	38	68.0	L333023-02	WG346689
4-Methyl-2-pentanone (MIBK)	mg/kg	1.14	1.10	3.36	36	91.2	L333023-02	WG346689
Acetone	mg/kg	0.967	0.945	2.28	34	77.3	L333023-02	WG346689
Acrylonitrile	mg/kg	0.948	0.948	0.0871	35	75.9	L333023-02	WG346689
Benzene	mg/kg	0.206	0.196	4.96	31	82.3	L333023-02	WG346689
Bromobenzene	mg/kg	0.203	0.198	2.56	39	81.4	L333023-02	WG346689
Bromodichloromethane	mg/kg	0.216	0.204	5.71	30	86.6	L333023-02	WG346689
Bromoform	mg/kg	0.182	0.173	5.38	34	73.0	L333023-02	WG346689
Bromomethane	mg/kg	0.224	0.196	12.9	41	89.5	L333023-02	WG346689
Carbon tetrachloride	mg/kg	0.204	0.190	7.04	34	81.5	L333023-02	WG346689
Chlorobenzene	mg/kg	0.221	0.208	5.89	34	88.2	L333023-02	WG346689
Chlorodibromomethane	mg/kg	0.208	0.193	7.52	32	83.0	L333023-02	WG346689
Chloroethane	mg/kg	0.234	0.208	11.6	38	93.6	L333023-02	WG346689
Chloroform	mg/kg	0.219	0.198	9.80	30	87.4	L333023-02	WG346689
Chloromethane	mg/kg	0.175	0.156	11.7	35	70.0	L333023-02	WG346689

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Quality Assurance Report
Level II

L332816

March 03, 2008

cis-1,2-Dichloroethene	mg/kg	0.217	0.202	7.42	31	86.8	L333023-02	WG346689

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
cis-1,3-Dichloropropene	mg/kg	0.194	0.188	3.04	32	77.5	L333023-02	WG346689
Di-isopropyl ether	mg/kg	0.221	0.212	4.10	29	88.4	L333023-02	WG346689
Dibromomethane	mg/kg	0.206	0.208	0.753	30	82.5	L333023-02	WG346689
Dichlorodifluoromethane	mg/kg	0.210	0.192	9.22	38	84.2	L333023-02	WG346689
Ethylbenzene	mg/kg	0.198	0.184	7.75	36	79.3	L333023-02	WG346689
Hexachlorobutadiene	mg/kg	0.152	0.139	9.38	50	60.9	L333023-02	WG346689
Isopropylbenzene	mg/kg	0.187	0.182	2.66	37	74.6	L333023-02	WG346689
Methyl tert-butyl ether	mg/kg	0.222	0.208	6.30	31	88.7	L333023-02	WG346689
Methylene Chloride	mg/kg	0.217	0.203	6.70	31	86.7	L333023-02	WG346689
n-Butylbenzene	mg/kg	0.216	0.206	4.59	48	86.3	L333023-02	WG346689
n-Propylbenzene	mg/kg	0.180	0.171	5.07	40	72.0	L333023-02	WG346689
Naphthalene	mg/kg	0.135	0.140	3.41	43	54.2	L333023-02	WG346689
p-Isopropyltoluene	mg/kg	0.166	0.168	1.46	43	66.2	L333023-02	WG346689
sec-Butylbenzene	mg/kg	0.176	0.173	1.25	43	70.3	L333023-02	WG346689
Styrene	mg/kg	0.186	0.176	5.50	35	74.2	L333023-02	WG346689
tert-Butylbenzene	mg/kg	0.180	0.180	0.0245	39	71.9	L333023-02	WG346689
Tetrachloroethene	mg/kg	0.189	0.183	3.00	35	75.5	L333023-02	WG346689
Toluene	mg/kg	0.200	0.200	0.0854	32	80.0	L333023-02	WG346689
trans-1,2-Dichloroethene	mg/kg	0.206	0.188	8.97	33	82.4	L333023-02	WG346689
trans-1,3-Dichloropropene	mg/kg	0.196	0.197	0.842	32	78.3	L333023-02	WG346689
Trichloroethene	mg/kg	0.220	0.207	5.84	33	87.9	L333023-02	WG346689
Trichlorofluoromethane	mg/kg	0.224	0.0722	102.	32	89.6	L333023-02	WG346689
Vinyl chloride	mg/kg	0.181	0.175	3.27	36	72.3	L333023-02	WG346689
Xylenes, Total	mg/kg	0.585	0.562	3.99	36	78.0	L333023-02	WG346689
Diesel Range Organics (DRO)	mg/kg	24.0	29.5	20.6	20	79.9	L333145-02	WG346741
Residual Range Organics (RRO)	mg/kg	54.2	54.0	0.484	20	181.	L333145-02	WG346741
1,1,1,2-Tetrachloroethane	mg/kg	0.231	0.225	2.73	31	92.4	L332799-16	WG346950
1,1,1-Trichloroethane	mg/kg	0.214	0.207	3.28	32	85.5	L332799-16	WG346950
1,1,2,2-Tetrachloroethane	mg/kg	0.257	0.236	8.31	33	103.	L332799-16	WG346950
1,1,2-Trichloroethane	mg/kg	0.235	0.223	5.39	29	94.0	L332799-16	WG346950
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.191	0.189	1.09	35	76.4	L332799-16	WG346950
1,1-Dichloroethane	mg/kg	0.220	0.209	4.89	31	88.0	L332799-16	WG346950
1,1-Dichloroethene	mg/kg	0.204	0.196	4.09	34	81.5	L332799-16	WG346950
1,1-Dichloropropene	mg/kg	0.212	0.205	3.02	34	84.6	L332799-16	WG346950
1,2,3-Trichlorobenzene	mg/kg	0.230	0.213	7.90	43	92.1	L332799-16	WG346950
1,2,3-Trichloropropane	mg/kg	0.254	0.230	9.93	32	102.	L332799-16	WG346950
1,2,3-Trimethylbenzene	mg/kg	0.235	0.229	2.86	36	94.1	L332799-16	WG346950
1,2,4-Trichlorobenzene	mg/kg	0.228	0.216	5.54	44	91.3	L332799-16	WG346950
1,2,4-Trimethylbenzene	mg/kg	0.213	0.208	2.26	41	85.3	L332799-16	WG346950
1,2-Dibromo-3-Chloropropane	mg/kg	0.259	0.225	13.8	35	103.	L332799-16	WG346950
1,2-Dibromoethane	mg/kg	0.235	0.219	6.80	31	93.9	L332799-16	WG346950
1,2-Dichlorobenzene	mg/kg	0.232	0.232	0.135	35	92.8	L332799-16	WG346950
1,2-Dichloroethane	mg/kg	0.234	0.225	4.00	29	93.6	L332799-16	WG346950
1,2-Dichloropropane	mg/kg	0.220	0.214	2.99	30	88.2	L332799-16	WG346950
1,3,5-Trimethylbenzene	mg/kg	0.215	0.211	1.96	39	86.1	L332799-16	WG346950
1,3-Dichlorobenzene	mg/kg	0.250	0.244	2.22	38	99.8	L332799-16	WG346950
1,3-Dichloropropane	mg/kg	0.227	0.214	5.81	29	90.9	L332799-16	WG346950
1,4-Dichlorobenzene	mg/kg	0.222	0.221	0.513	36	88.8	L332799-16	WG346950
2,2-Dichloropropane	mg/kg	0.213	0.207	3.02	32	85.2	L332799-16	WG346950
2-Butanone (MEK)	mg/kg	1.29	1.12	13.4	37	103.	L332799-16	WG346950
2-Chloroethyl vinyl ether	mg/kg	0.805	0.803	0.296	50	64.4	L332799-16	WG346950
2-Chlorotoluene	mg/kg	0.233	0.226	2.71	37	93.0	L332799-16	WG346950
4-Chlorotoluene	mg/kg	0.237	0.232	2.04	38	94.6	L332799-16	WG346950
4-Methyl-2-pentanone (MIBK)	mg/kg	1.39	1.24	11.9	36	112.	L332799-16	WG346950
Acetone	mg/kg	1.20	1.07	11.2	34	95.9	L332799-16	WG346950
Acrylonitrile	mg/kg	1.25	1.13	10.3	35	99.9	L332799-16	WG346950
Benzene	mg/kg	0.217	0.208	4.39	31	87.0	L332799-16	WG346950

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Lake Oswego, OR 97035

Quality Assurance Report
Level II

L332816

March 03, 2008

Bromobenzene	mg/kg	0.234	0.223	4.68	39	93.6	L332799-16	WG346950

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
Bromodichloromethane	mg/kg	0.237	0.228	3.82	30	94.8	L332799-16	WG346950
Bromoform	mg/kg	0.230	0.216	6.13	34	92.0	L332799-16	WG346950
Bromomethane	mg/kg	0.242	0.233	3.77	41	96.6	L332799-16	WG346950
Carbon tetrachloride	mg/kg	0.219	0.211	3.35	34	87.4	L332799-16	WG346950
Chlorobenzene	mg/kg	0.228	0.219	4.11	34	91.3	L332799-16	WG346950
Chlorodibromomethane	mg/kg	0.241	0.229	4.93	32	96.3	L332799-16	WG346950
Chloroethane	mg/kg	0.235	0.229	2.58	38	94.0	L332799-16	WG346950
Chloroform	mg/kg	0.226	0.214	5.63	30	90.4	L332799-16	WG346950
Chloromethane	mg/kg	0.228	0.218	4.71	35	91.3	L332799-16	WG346950
cis-1,2-Dichloroethene	mg/kg	0.229	0.215	6.39	31	91.7	L332799-16	WG346950
cis-1,3-Dichloropropene	mg/kg	0.243	0.235	3.48	32	97.3	L332799-16	WG346950
Di-isopropyl ether	mg/kg	0.229	0.222	3.05	29	91.6	L332799-16	WG346950
Dibromomethane	mg/kg	0.228	0.215	5.78	30	91.2	L332799-16	WG346950
Dichlorodifluoromethane	mg/kg	0.212	0.209	1.51	38	85.0	L332799-16	WG346950
Ethylbenzene	mg/kg	0.217	0.210	2.88	36	86.6	L332799-16	WG346950
Hexachlorobutadiene	mg/kg	0.223	0.220	1.21	50	89.1	L332799-16	WG346950
Isopropylbenzene	mg/kg	0.224	0.218	2.98	37	89.8	L332799-16	WG346950
Methyl tert-butyl ether	mg/kg	0.250	0.234	6.68	31	100.	L332799-16	WG346950
Methylene Chloride	mg/kg	0.209	0.201	3.58	31	83.5	L332799-16	WG346950
n-Butylbenzene	mg/kg	0.196	0.195	0.509	48	78.3	L332799-16	WG346950
n-Propylbenzene	mg/kg	0.218	0.212	2.52	40	87.1	L332799-16	WG346950
Naphthalene	mg/kg	0.226	0.194	15.3	43	76.2	L332799-16	WG346950
p-Isopropyltoluene	mg/kg	0.205	0.201	2.22	43	82.0	L332799-16	WG346950
sec-Butylbenzene	mg/kg	0.207	0.201	2.99	43	82.7	L332799-16	WG346950
Styrene	mg/kg	0.219	0.214	2.11	35	87.6	L332799-16	WG346950
tert-Butylbenzene	mg/kg	0.203	0.197	2.85	39	81.2	L332799-16	WG346950
Tetrachloroethene	mg/kg	0.204	0.202	0.969	35	81.5	L332799-16	WG346950
Toluene	mg/kg	0.218	0.211	3.16	32	87.0	L332799-16	WG346950
trans-1,2-Dichloroethene	mg/kg	0.213	0.205	3.84	33	85.0	L332799-16	WG346950
trans-1,3-Dichloropropene	mg/kg	0.247	0.241	2.61	32	99.0	L332799-16	WG346950
Trichloroethene	mg/kg	0.213	0.208	2.30	33	85.2	L332799-16	WG346950
Trichlorofluoromethane	mg/kg	0.221	0.217	2.07	32	88.4	L332799-16	WG346950
Vinyl chloride	mg/kg	0.232	0.222	4.35	36	92.7	L332799-16	WG346950
Xylenes, Total	mg/kg	0.667	0.650	2.67	36	89.0	L332799-16	WG346950
1,1,1,2-Tetrachloroethane	mg/kg	2.23	2.11	5.61	31	98.2	L333091-09	WG347089
1,1,1-Trichloroethane	mg/kg	1.93	1.40	32.2	32	85.0	L333091-09	WG347089
1,1,2,2-Tetrachloroethane	mg/kg	2.22	2.10	5.36	33	97.4	L333091-09	WG347089
1,1,2-Trichloroethane	mg/kg	2.30	2.10	9.32	29	101.	L333091-09	WG347089
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	2.36	1.68	33.9	35	104.	L333091-09	WG347089
1,1-Dichloroethane	mg/kg	2.07	1.47	33.6	31	90.9	L333091-09	WG347089
1,1-Dichloroethene	mg/kg	2.34	1.82	24.7	34	103.	L333091-09	WG347089
1,1-Dichloropropene	mg/kg	2.12	1.64	25.4	34	93.2	L333091-09	WG347089
1,2,3-Trichlorobenzene	mg/kg	2.36	2.12	10.5	43	104.	L333091-09	WG347089
1,2,3-Trichloropropane	mg/kg	2.39	2.36	1.35	32	105.	L333091-09	WG347089
1,2,3-Trimethylbenzene	mg/kg	2.19	2.07	5.76	36	96.3	L333091-09	WG347089
1,2,4-Trichlorobenzene	mg/kg	2.46	2.20	11.1	44	108.	L333091-09	WG347089
1,2,4-Trimethylbenzene	mg/kg	2.26	2.30	1.66	41	99.3	L333091-09	WG347089
1,2-Dibromo-3-Chloropropane	mg/kg	2.36	2.44	3.36	35	104.	L333091-09	WG347089
1,2-Dibromoethane	mg/kg	2.56	2.31	10.2	31	113.	L333091-09	WG347089
1,2-Dichlorobenzene	mg/kg	2.19	2.07	5.75	35	96.5	L333091-09	WG347089
1,2-Dichloroethane	mg/kg	1.92	1.23	43.7	29	84.5	L333091-09	WG347089
1,2-Dichloropropane	mg/kg	2.16	1.53	33.9	30	94.8	L333091-09	WG347089
1,3,5-Trimethylbenzene	mg/kg	2.22	2.28	2.73	39	97.6	L333091-09	WG347089
1,3-Dichlorobenzene	mg/kg	2.25	2.21	1.50	38	98.7	L333091-09	WG347089
1,3-Dichloropropane	mg/kg	2.35	2.11	10.4	29	103.	L333091-09	WG347089
1,4-Dichlorobenzene	mg/kg	2.17	2.07	4.75	36	95.2	L333091-09	WG347089
2,2-Dichloropropane	mg/kg	2.00	1.41	34.6	32	87.9	L333091-09	WG347089
2-Butanone (MEK)	mg/kg	11.6	9.94	15.2	37	102.	L333091-09	WG347089

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2-Chloroethyl vinyl ether	mg/kg	11.6	7.56	42.0	50	102.	L333091-09	WG347089

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
2-Chlorotoluene	mg/kg	2.25	2.36	4.62	37	98.9	L333091-09	WG347089
4-Chlorotoluene	mg/kg	2.32	2.41	3.82	38	102.	L333091-09	WG347089
4-Methyl-2-pentanone (MIBK)	mg/kg	10.9	8.06	29.9	36	95.7	L333091-09	WG347089
Acetone	mg/kg	9.01	8.22	9.22	34	79.2	L333091-09	WG347089
Acrylonitrile	mg/kg	11.3	9.08	21.5	35	99.0	L333091-09	WG347089
Benzene	mg/kg	2.10	1.48	35.0	31	92.5	L333091-09	WG347089
Bromobenzene	mg/kg	2.21	2.15	3.20	39	97.4	L333091-09	WG347089
Bromodichloromethane	mg/kg	2.10	1.48	34.5	30	92.4	L333091-09	WG347089
Bromoform	mg/kg	2.07	1.86	10.3	34	90.8	L333091-09	WG347089
Bromomethane	mg/kg	0.889	0.794	11.3	41	39.1	L333091-09	WG347089
Carbon tetrachloride	mg/kg	1.87	1.43	26.6	34	82.3	L333091-09	WG347089
Chlorobenzene	mg/kg	2.36	2.36	0.313	34	104.	L333091-09	WG347089
Chlorodibromomethane	mg/kg	2.35	2.12	9.99	32	103.	L333091-09	WG347089
Chloroethane	mg/kg	0.876	0.916	4.45	38	38.5	L333091-09	WG347089
Chloroform	mg/kg	2.00	1.42	34.1	30	87.9	L333091-09	WG347089
Chloromethane	mg/kg	1.73	1.39	21.7	35	76.1	L333091-09	WG347089
cis-1,2-Dichloroethene	mg/kg	2.20	1.57	33.6	31	96.8	L333091-09	WG347089
cis-1,3-Dichloropropene	mg/kg	2.19	1.51	36.9	32	96.3	L333091-09	WG347089
Di-isopropyl ether	mg/kg	2.19	1.37	46.0	29	96.2	L333091-09	WG347089
Dibromomethane	mg/kg	2.17	1.47	38.1	30	95.3	L333091-09	WG347089
Dichlorodifluoromethane	mg/kg	1.89	1.58	17.9	38	83.2	L333091-09	WG347089
Ethylbenzene	mg/kg	2.21	2.25	1.66	36	97.2	L333091-09	WG347089
Hexachlorobutadiene	mg/kg	2.20	2.15	2.18	50	96.5	L333091-09	WG347089
Isopropylbenzene	mg/kg	2.20	2.33	5.94	37	96.6	L333091-09	WG347089
Methyl tert-butyl ether	mg/kg	2.35	1.38	52.2	31	103.	L333091-09	WG347089
Methylene Chloride	mg/kg	2.26	1.57	35.9	31	99.4	L333091-09	WG347089
n-Butylbenzene	mg/kg	2.17	2.22	2.16	48	95.4	L333091-09	WG347089
n-Propylbenzene	mg/kg	2.17	2.29	5.38	40	95.4	L333091-09	WG347089
Naphthalene	mg/kg	2.19	2.08	5.44	43	96.4	L333091-09	WG347089
p-Isopropyltoluene	mg/kg	2.16	2.23	3.21	43	95.1	L333091-09	WG347089
sec-Butylbenzene	mg/kg	2.08	2.13	2.42	43	91.2	L333091-09	WG347089
Styrene	mg/kg	2.36	2.32	1.90	35	104.	L333091-09	WG347089
tert-Butylbenzene	mg/kg	1.91	2.00	4.44	39	84.1	L333091-09	WG347089
Tetrachloroethene	mg/kg	2.34	2.58	9.74	35	103.	L333091-09	WG347089
Toluene	mg/kg	2.17	1.63	28.2	32	95.5	L333091-09	WG347089
trans-1,2-Dichloroethene	mg/kg	2.27	1.66	31.1	33	99.9	L333091-09	WG347089
trans-1,3-Dichloropropene	mg/kg	2.17	1.44	40.6	32	95.3	L333091-09	WG347089
Trichloroethene	mg/kg	2.11	1.70	21.7	33	92.8	L333091-09	WG347089
Trichlorofluoromethane	mg/kg	1.46	1.25	15.5	32	64.3	L333091-09	WG347089
Vinyl chloride	mg/kg	1.68	1.40	18.6	36	74.0	L333091-09	WG347089
Xylenes, Total	mg/kg	6.79	7.06	3.93	36	99.5	L333091-09	WG347089
Toluene	mg/kg	2.51	2.38	5.09	32	108.	L332983-01	WG347350
1,1,1,2-Tetrachloroethane	mg/kg	2.13	2.09	2.10	31	97.9	L333083-01	WG347625
1,1,1-Trichloroethane	mg/kg	1.96	1.87	4.84	32	90.1	L333083-01	WG347625
1,1,2,2-Tetrachloroethane	mg/kg	2.22	2.18	1.63	33	102.	L333083-01	WG347625
1,1,2-Trichloroethane	mg/kg	2.07	2.04	1.89	29	95.4	L333083-01	WG347625
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.677	0.626	7.80	35	31.1	L333083-01	WG347625
1,1-Dichloroethane	mg/kg	1.89	1.81	4.49	31	87.1	L333083-01	WG347625
1,1-Dichloroethene	mg/kg	0.668	0.618	7.74	34	30.7	L333083-01	WG347625
1,1-Dichloropropene	mg/kg	1.72	1.63	5.49	34	79.3	L333083-01	WG347625
1,2,3-Trichlorobenzene	mg/kg	2.56	2.29	11.1	43	118.	L333083-01	WG347625
1,2,3-Trichloropropane	mg/kg	2.20	2.17	1.28	32	101.	L333083-01	WG347625
1,2,3-Trimethylbenzene	mg/kg	2.23	2.13	4.51	36	102.	L333083-01	WG347625
1,2,4-Trichlorobenzene	mg/kg	2.55	2.36	7.95	44	117.	L333083-01	WG347625
1,2,4-Trimethylbenzene	mg/kg	2.11	2.04	3.12	41	97.0	L333083-01	WG347625
1,2-Dibromo-3-Chloropropane	mg/kg	2.11	2.10	0.769	35	97.2	L333083-01	WG347625
1,2-Dibromoethane	mg/kg	2.02	1.98	2.00	31	92.9	L333083-01	WG347625

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Quality Assurance Report
Level II

L332816

March 03, 2008

1,2-Dichlorobenzene	mg/kg	2.31	2.17	6.37	35	106.	L333083-01	WG347625

Matrix Spike Duplicate

Analyte	Units	MSD Res	Ref Res	RPD	Limit	%Rec	Ref Samp	Batch
1,2-Dichloroethane	mg/kg	1.92	1.81	5.99	29	88.2	L333083-01	WG347625
1,2-Dichloropropane	mg/kg	2.03	1.88	7.61	30	93.3	L333083-01	WG347625
1,3,5-Trimethylbenzene	mg/kg	2.07	2.01	3.18	39	95.4	L333083-01	WG347625
1,3-Dichlorobenzene	mg/kg	2.17	2.11	2.95	38	99.9	L333083-01	WG347625
1,3-Dichloropropane	mg/kg	2.03	1.99	1.84	29	93.2	L333083-01	WG347625
1,4-Dichlorobenzene	mg/kg	2.21	2.13	3.82	36	102.	L333083-01	WG347625
2,2-Dichloropropane	mg/kg	2.40	2.31	3.54	32	110.	L333083-01	WG347625
2-Butanone (MEK)	mg/kg	9.35	9.26	0.952	37	86.0	L333083-01	WG347625
2-Chloroethyl vinyl ether	mg/kg	5.51	4.30	24.6	50	50.7	L333083-01	WG347625
2-Chlorotoluene	mg/kg	2.07	2.01	2.56	37	95.0	L333083-01	WG347625
4-Chlorotoluene	mg/kg	2.11	2.06	2.59	38	97.2	L333083-01	WG347625
4-Methyl-2-pentanone (MIBK)	mg/kg	10.7	10.5	1.43	36	98.0	L333083-01	WG347625
Acetone	mg/kg	9.00	8.90	1.14	34	82.8	L333083-01	WG347625
Acrylonitrile	mg/kg	7.70	7.37	4.38	35	70.8	L333083-01	WG347625
Benzene	mg/kg	1.84	1.73	5.78	31	84.4	L333083-01	WG347625
Bromobenzene	mg/kg	2.16	2.07	4.35	39	99.2	L333083-01	WG347625
Bromodichloromethane	mg/kg	1.96	1.86	5.68	30	90.3	L333083-01	WG347625
Bromoform	mg/kg	2.09	2.05	1.69	34	96.1	L333083-01	WG347625
Bromomethane	mg/kg	2.06	1.37	40.7	41	94.9	L333083-01	WG347625
Carbon tetrachloride	mg/kg	1.87	1.80	3.80	34	86.0	L333083-01	WG347625
Chlorobenzene	mg/kg	1.99	1.93	3.02	34	91.5	L333083-01	WG347625
Chlorodibromomethane	mg/kg	2.06	2.02	2.34	32	94.9	L333083-01	WG347625
Chloroethane	mg/kg	0.661	0.552	17.9	38	30.4	L333083-01	WG347625
Chloroform	mg/kg	1.97	1.88	4.60	30	90.4	L333083-01	WG347625
Chloromethane	mg/kg	1.95	1.88	3.70	35	89.6	L333083-01	WG347625
cis-1,2-Dichloroethene	mg/kg	1.83	1.74	4.78	31	84.1	L333083-01	WG347625
cis-1,3-Dichloropropene	mg/kg	2.33	2.19	6.41	32	107.	L333083-01	WG347625
Di-isopropyl ether	mg/kg	2.20	2.08	5.61	29	101.	L333083-01	WG347625
Dibromomethane	mg/kg	1.94	1.81	6.85	30	89.3	L333083-01	WG347625
Dichlorodifluoromethane	mg/kg	1.18	0.982	18.4	38	54.3	L333083-01	WG347625
Ethylbenzene	mg/kg	1.92	1.86	3.14	36	88.1	L333083-01	WG347625
Hexachlorobutadiene	mg/kg	2.30	2.15	6.76	50	106.	L333083-01	WG347625
Isopropylbenzene	mg/kg	2.01	1.95	3.04	37	92.5	L333083-01	WG347625
Methyl tert-butyl ether	mg/kg	2.22	2.07	6.89	31	102.	L333083-01	WG347625
Methylene Chloride	mg/kg	1.88	1.42	27.8	31	86.6	L333083-01	WG347625
n-Butylbenzene	mg/kg	2.23	2.13	4.75	48	102.	L333083-01	WG347625
n-Propylbenzene	mg/kg	2.04	1.99	2.70	40	93.8	L333083-01	WG347625
Naphthalene	mg/kg	2.36	2.15	9.22	43	109.	L333083-01	WG347625
p-Isopropyltoluene	mg/kg	2.12	2.06	2.88	43	97.5	L333083-01	WG347625
sec-Butylbenzene	mg/kg	2.10	2.03	3.65	43	96.8	L333083-01	WG347625
Styrene	mg/kg	2.10	2.04	2.84	35	96.4	L333083-01	WG347625
tert-Butylbenzene	mg/kg	2.08	2.02	2.73	39	95.6	L333083-01	WG347625
Tetrachloroethene	mg/kg	1.70	1.67	1.83	35	78.3	L333083-01	WG347625
Toluene	mg/kg	1.96	1.85	5.87	32	90.1	L333083-01	WG347625
trans-1,2-Dichloroethene	mg/kg	1.61	1.52	5.68	33	73.9	L333083-01	WG347625
trans-1,3-Dichloropropene	mg/kg	2.37	2.24	5.71	32	109.	L333083-01	WG347625
Trichloroethene	mg/kg	1.80	1.69	6.66	33	82.8	L333083-01	WG347625
Trichlorofluoromethane	mg/kg	1.31	1.26	4.17	32	60.4	L333083-01	WG347625
Vinyl chloride	mg/kg	1.27	0.913	32.7	36	58.4	L333083-01	WG347625
Xylenes, Total	mg/kg	5.87	5.71	2.68	36	89.9	L333083-01	WG347625

Batch number /Run number / Sample number cross reference

WG346421: R353978: L332816-11 12 13 14
WG346451: R354044: L332816-11 12 13 14
WG346741: R354424: L332816-11 12 13
WG346688: R354483: L332816-01 03
WG346689: R354527: L332816-05 06 08 09 10

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Leon Lahiere
Five Centerpointe Dr, Ste 240
Lake Oswego, OR 97035

Quality Assurance Report
Level II

L332816

March 03, 2008

WG346950: R354590: L332816-07 10
WG347089: R354651: L332816-02
WG347350: R354984: L332816-07
WG346929: R355009: L332816-14
WG347625: R355099: L332816-04

* * Calculations are performed prior to rounding of reported values .

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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

☐ 1910 Fairview Ave., E., Seattle WA 98102
☐ 2250 Denali St., #705, Anchorage, AK 99503
☐ Five Centerpointe Dr., Lake Oswego, OR 97035
☐ 301 E. Ocean Blvd., #1950, Long Beach CA 90802
☐ 120 3rd Ave S., #110, Edmonds, WA 98020
☐ 811 Church Hill Rd., # 236, Cherry Hill, NJ 08002

Sample Custody Record

HARTCROWSER

Samples Shipped To: ESC

1332816

JOB 15634-00/T8 LAB NUMBER

PROJECT NAME Brix

HART CROWSER CONTACT Leon Lahiere

SAMPLED BY: USA Glover

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	VOCs EPA 5035/8260	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
	CB-A1 upper		2/19/08	1010	S	X	3	-01
	CB-A1 Lower		2/19/08	1036	S	X	3	-02
	CB-A2 upper		2/19/08	1310	S	X	3	-03
	CB-A2 under		2/19/08	1320	S	X	3	-04
	CB-A3 upper		2/19/08	1400	S	X	4	-05
	CB-A3 Lower		2/19/08	1425	S	X	4	-06
	CB-B1 upper		2/19/08	1555	S	X	3	-07
	CB-B1 Lower		2/19/08	1610	S	X	3	-08
	CB-B2 Upper		2/19/08	1620	S	X	3	-09
	CB-B2 Lower		2/19/08	1625	S	X	3	-10

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	2/19/08	SIGNATURE	
PRINT NAME USA Glover	TIME	PRINT NAME	TIME
COMPANY Hart Crowser	1600	COMPANY	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE		SIGNATURE 2/21/08 @ 0900	
PRINT NAME	TIME	PRINT NAME	TIME
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION
CUSTODY SEALS ☐ YES ☐ NO ☐ N/A
GOOD CONDITION ☐ YES ☐ NO
TEMPERATURE 4.2°
SHIPMENT METHOD ☐ HAND ☐ COURIER ☐ OVERNIGHT

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. _____ for Other Contract Requirements

TURNAROUND TIME:
☐ 24 HOURS ☐ 1 WEEK
☐ 48 HOURS ☐ STANDARD
☐ 72 HOURS OTHER _____

NCF

White and Yellow Copies to Lab Pink to Project Manager Lab to Return White Copy to Hart Crowser Gold to Sample Custodian

8615-3287-9579

40 containers

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☐ Five Centerpointe Dr., Lake Oswego, OR 97035
☐ 301 E. Ocean Blvd., #1950, Long Beach CA 90802
☐ 120 3rd Ave S., #110, Edmonds, WA 98020
☐ 811 Church Hill Rd., # 236, Cherry Hill, NJ 08002

Sample Custody Record

HARTCROWSER

Samples Shipped To: ESC

L332816

JOB 15634-00/T8 LAB NUMBER

PROJECT NAME Brix

HART CROWSER CONTACT Leon Lahure

SAMPLED BY: LISA GLONEK

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	Gasoline Large NWTPH-Gx	Diesel Oil Large NWTPH-DX											NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
CB-A	Upper Composite		2/19/08	1420	S	X	X										-11	2	Silica gel Cleanup on Dx+Gx Analyses
CB-A	Lower Composite		2/19/08	1425	S	X	X										-12	2	Silica gel Cleanup on Dx+Gx Analyses
CB-B	Upper Composite		2/19/08	1640	S	X	X										-13	2	Silica gel Cleanup on Dx+Gx Analyses
CB-B	Lower Composite		2/19/08	1645	S	X	X										-14	2	Silica gel Cleanup on Dx+Gx Analyses

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE: Lisa Glonek	2/20/2008	SIGNATURE	
PRINT NAME: LISA GLONEK	TIME: 1600	PRINT NAME	TIME
COMPANY: Hart Crowser		COMPANY	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE		SIGNATURE: [signature] 2/21/08 @ 0900	
PRINT NAME	TIME	PRINT NAME	TIME
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. _____ for Other Contract Requirements

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION
CUSTODY SEALS ☐ YES ☐ NO ☐ N/A
GOOD CONDITION ☐ YES ☐ NO
TEMPERATURE 4.2°
SHIPMENT METHOD ☐ HAND ☐ COURIER ☐ OVERNIGHT

TURNAROUND TIME:
☐ 24 HOURS ☐ 1 WEEK
☐ 48 HOURS ☒ STANDARD
☐ 72 HOURS OTHER _____

NCF

40 containers

White and Yellow Copies to Lab Pink to Project Manager Lab to Return White Copy to Hart Crowser Gold to Sample Custodian

Mark B.

ENVIRONMENTAL SCIENCE CORP.

SAMPLE NON-CONFORMANCE FORM

Sample No. : 1332716

Date: 2/21/08

Evaluated by: Karen

Client: HARCROPOR

Non-Conformance (check applicable items)

	Chain of Custody is missing	(1)(2)	Login Clarification Needed
	Improper container type		Improper preservation
	Chain of custody is incomplete		Container lid not in tact
	Parameter(s) past holding time		Improper temperature
	Broken container(s) **see below**		Broken container: sufficient sample volume remains for analysis requested

- _____ Insufficient packing material around container
- _____ Insufficient packing material inside cooler
- _____ Improper handling by carrier (FedEx / UPS / Courier)
- _____ Sample was frozen

Comments: (1) Client has only sent STIRBARS/METHENOL VIAL for all the samples on page 1, with the exception of the two CB-A3 samples. For these two, we received a 2-oz soil jar in addition to the STIRBARS.

Login Instructions: **TSR Initials:** MB

Client informed by call / email / fax / voice mail date: 2/21/08 time: 1535

Client contact:

1) Run as rec'd

2) Run as rec'd

(2) Client only sent soil jar for the samples listed on page 2 of the COC.

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
Phone: (206)767-5060
Fax: (206)767-5063

Client: Hart Crowser, Inc.
Five Centerpointe Drive, Suite 240
Lake Oswego, OR 97035-8682

ATTN: Leon Lahiere

Project Name: **Brix Maritime-Joint Source Control**

SDG Number: **HCI0801**
Date Received: **10/7/2008 9:00:00AM**
Date Reported: **10/29/2008**

Dear Leon Lahiere,

Enclosed are the analytical results for the sample(s) received by the laboratory on October 7, 2008. The results relate only to the samples included in this report. Unless otherwise instructed all samples with the exception of samples which are consumed during the analysis, such as microbiological samples, will be disposed of on or after January 15, 2009. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

If you have any question concerning the report, please feel free to contact me.

Respectfully submitted,

Pace Analytical Services, Inc.

Kara Godineaux

Kara Godineaux

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
Phone: (206)767-5060
Fax: (206)767-5063

Pace Analytical Services, Inc.

Sample Summary

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

Sample Identification:

Sample Description	Lab Sample ID	Collection Date/Time		Type
Outfall A	HCI0801-001	10/03/2008	13:55	Water
Outfall B	HCI0801-002	10/03/2008	12:55	Water
Trip Blank A	HCI0801-003	10/03/2008		Water
Trip Blank B	HCI0801-004	10/03/2008		Water

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Test Request Summary

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Pace Project No.:		Project Manager:	Leon Lahiere

Samples	Methods									
Client Sample ID	160.2 1	8260B 2	8270-P 3	NWTPH-4	NWTPH-5	8082A 6	8270 7	8	9	10
Outfall A	X	X	X	X	X	X	X			
Outfall B	X	X	X	X	X	X	X			
Trip Blank A					X					
Trip Blank B					X					

Determinations:

1 = 160.2 Total Suspended Solids, Water

2 = 8260-1 VOAs Water Full list

3 = 8270 SPE SIM level PNA Water (Routine)

4 = NWTPH Dx Water Low Concentration

5 = NWTPH Gx Water

6 = 8082 PCB Aroclors Water -Low

7 = 8270 SVOAs Water Low level Phthalates

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Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**Outfall A**	Matrix:	Water
Collected On:	10/3/08 13:55	Lab Sample ID:	HCI0801-001
Received On:	10/7/08 9:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Residue, non-filterable, Gravimetric, Dried at 103 (TSS- total Suspended Solids)				Methods (Preparation | Analysis): **NONE | 160.2**					
Suspended Solids, Total	**8**	mg/L	1		2	Q35298	10/08/2008	10/08/2008	
Polychlorinated Biphenyls by Gas Chromatography				Methods (Preparation | Analysis): **3535 | 8082A**					
Aroclor-1016	ND	ug/L	1		0.048	Q35309	10/09/2008	10/14/2008	
Aroclor-1221	ND	ug/L	1		0.048	Q35309	10/09/2008	10/14/2008	
Aroclor-1232	ND	ug/L	1		0.048	Q35309	10/09/2008	10/14/2008	
Aroclor-1242	ND	ug/L	1		0.048	Q35309	10/09/2008	10/14/2008	
Aroclor-1248	ND	ug/L	1		0.048	Q35309	10/09/2008	10/14/2008	
Aroclor-1254	ND	ug/L	1		0.048	Q35309	10/09/2008	10/14/2008	
Aroclor-1260	ND	ug/L	1		0.048	Q35309	10/09/2008	10/14/2008	
Aroclor-1262	ND	ug/L	1		0.048	Q35309	10/09/2008	10/14/2008	
Aroclor-1268	ND	ug/L	1		0.048	Q35309	10/09/2008	10/14/2008	
Surrogates:									
Decachlorobiphenyl	>250	% Rec	1		32-149	Q35309	10/09/2008	10/14/2008	*
Tetrachloro-m-xylene	192	% Rec	1		10-129	Q35309	10/09/2008	10/14/2008	*
Purgeable Organic Compounds by GC/MS				Methods (Preparation | Analysis): **5030B | 8260B**					
Acetone	ND	ug/L	1		20	Q35344	10/10/2008	10/10/2008	
Benzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Bromobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Bromochloromethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Bromodichloromethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Bromoform	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Bromomethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
2-Butanone	ND	ug/L	1		10	Q35344	10/10/2008	10/10/2008	
n-Butylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
sec-Butylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
tert-Butylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Carbon disulfide	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Carbon tetrachloride	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Chlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Chloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Chloroform	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Chloromethane	ND	ug/L	1		5.0	Q35344	10/10/2008	10/10/2008	
2-Chlorotoluene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
4-Chlorotoluene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2-Dibromo-3-chloropropane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Dibromochloromethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2-Dibromoethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Dibromomethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2-Dichlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,3-Dichlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,4-Dichlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Dichlorodifluoromethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1-Dichloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2-Dichloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1-Dichloroethene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	

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Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**Outfall A**	Matrix:	Water
Collected On:	10/3/08 13:55	Lab Sample ID:	HCI0801-001
Received On:	10/7/08 9:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation | Analysis): **5030B | 8260B**					
trans-1,2-Dichloroethene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
cis-1,2-Dichloroethene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2-Dichloropropane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,3-Dichloropropane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
2,2-Dichloropropane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1-Dichloropropene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
cis-1,3-Dichloropropene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
trans-1,3-Dichloropropene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Ethylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Hexachlorobutadiene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
2-Hexanone	ND	ug/L	1		10	Q35344	10/10/2008	10/10/2008	
Isopropylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
4-Isopropyltoluene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
4-Methyl-2-pentanone	ND	ug/L	1		10	Q35344	10/10/2008	10/10/2008	
Methylene chloride	ND	ug/L	1		5.0	Q35344	10/10/2008	10/10/2008	
Naphthalene	ND	ug/L	1		5.0	Q35344	10/10/2008	10/10/2008	
n-Propylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Styrene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Tetrachloroethene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Toluene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2,3-Trichlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2,4-Trichlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1,1-Trichloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1,2-Trichloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Trichloroethene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Trichlorofluoromethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2,3-Trichloropropane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2,4-Trimethylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,3,5-Trimethylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Vinyl chloride	ND	ug/L	1		0.20	Q35344	10/10/2008	10/10/2008	
m,p-Xylene	ND	ug/L	1		2.0	Q35344	10/10/2008	10/10/2008	
o-Xylene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Surrogates:									
4-Bromofluorobenzene	94	% Rec	1		75-120	Q35344	10/10/2008	10/10/2008	
Dibromofluoromethane	109	% Rec	1		85-115	Q35344	10/10/2008	10/10/2008	
1,2-Dichloroethane-d4	116	% Rec	1		70-120	Q35344	10/10/2008	10/10/2008	
Toluene-d8	89	% Rec	1		85-120	Q35344	10/10/2008	10/10/2008	
Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3510C | 8270**					
Bis(2-ethylhexyl)phthalate	**1.3**	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	
Butylbenzylphthalate	ND	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	
Di-n-butylphthalate	ND	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	
Di-n-octylphthalate	ND	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	
Diethylphthalate	ND	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	
Dimethylphthalate	ND	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	

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Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**Outfall A**	Matrix:	Water
Collected On:	10/3/08 13:55	Lab Sample ID:	HCI0801-001
Received On:	10/7/08 9:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3510C | 8270**					
Surrogates:									
2-Fluorobiphenyl	72	% Rec	1		50-110	Q35266	10/08/2008	10/20/2008	
2-Fluorophenol	37	% Rec	1		20-110	Q35266	10/08/2008	10/20/2008	
Nitrobenzene-d5	69	% Rec	1		40-110	Q35266	10/08/2008	10/20/2008	
Phenol-d5	26	% Rec	1		10-115	Q35266	10/08/2008	10/20/2008	
Terphenyl-d14	76	% Rec	1		50-135	Q35266	10/08/2008	10/20/2008	
2,4,6-Tribromophenol	85	% Rec	1		40-125	Q35266	10/08/2008	10/20/2008	
SIM Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3535 | 8270-PNA**					
Naphthalene	**0.053**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	J
2-Methylnaphthalene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Acenaphthylene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Acenaphthene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Fluorene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Phenanthrene	**0.067**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	J
Anthracene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Fluoranthene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Pyrene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Benzo(a)anthracene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Chrysene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Benzo(b)fluoranthene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Benzo(k)fluoranthene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Benzo(a)pyrene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Dibenzo(a,h)anthracene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Benzo(g,h,i)perylene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Surrogates:									
1-Fluoronaphthalene	135	% Rec	1		30-110	Q35310	10/09/2008	10/21/2008	*
Fluorene-d10	163	% Rec	1		45-130	Q35310	10/09/2008	10/21/2008	*
Pyrene-d10	153	% Rec	1		50-140	Q35310	10/09/2008	10/21/2008	*
NWTPH Diesel				Methods (Preparation | Analysis): **3510C | NWTPH-D**					
Diesel Range Organics	**0.27**	mg/L	1		0.050	Q35260	10/08/2008	10/09/2008	
Oil Range Organics	**0.32**	mg/L	1		0.20	Q35260	10/08/2008	10/09/2008	
Surrogates:									
o-Terphenyl	91	% Rec	1		50-150	Q35260	10/08/2008	10/09/2008	
NWTPH Gas				Methods (Preparation | Analysis): **5030B | NWTPH-G**					
Gasoline Range Organics	ND	ug/L	1		25.0	Q35329	10/14/2008	10/14/2008	
Surrogates:									
4-Bromofluorobenzene	96	% Rec	1		50-150	Q35329	10/14/2008	10/14/2008	
Trifluorotoluene	100	% Rec	1		50-150	Q35329	10/14/2008	10/14/2008	

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Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**Outfall B**	Matrix:	Water
Collected On:	10/3/08 12:55	Lab Sample ID:	HCI0801-002
Received On:	10/7/08 9:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Residue, non-filterable, Gravimetric, Dried at 103 (TSS- total Suspended Solids)				Methods (Preparation | Analysis): **NONE | 160.2**					
Suspended Solids, Total	**8**	mg/L	1		2	Q35298	10/08/2008	10/08/2008	
Polychlorinated Biphenyls by Gas Chromatography				Methods (Preparation | Analysis): **3535 | 8082A**					
Aroclor-1016	ND	ug/L	1		0.048	Q35309	10/09/2008	10/21/2008	
Aroclor-1221	ND	ug/L	1		0.048	Q35309	10/09/2008	10/21/2008	
Aroclor-1232	ND	ug/L	1		0.048	Q35309	10/09/2008	10/21/2008	
Aroclor-1242	ND	ug/L	1		0.048	Q35309	10/09/2008	10/21/2008	
Aroclor-1248	ND	ug/L	1		0.048	Q35309	10/09/2008	10/21/2008	
Aroclor-1254	ND	ug/L	1		0.048	Q35309	10/09/2008	10/21/2008	
Aroclor-1260	ND	ug/L	1		0.048	Q35309	10/09/2008	10/21/2008	
Aroclor-1262	ND	ug/L	1		0.048	Q35309	10/09/2008	10/21/2008	
Aroclor-1268	ND	ug/L	1		0.048	Q35309	10/09/2008	10/21/2008	
Surrogates:									
Decachlorobiphenyl	171	% Rec	1		32-149	Q35309	10/09/2008	10/21/2008	*
Tetrachloro-m-xylene	60	% Rec	1		10-129	Q35309	10/09/2008	10/21/2008	
Purgeable Organic Compounds by GC/MS				Methods (Preparation | Analysis): **5030B | 8260B**					
Acetone	ND	ug/L	1		20	Q35344	10/10/2008	10/10/2008	
Benzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Bromobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Bromochloromethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Bromodichloromethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Bromoform	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Bromomethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
2-Butanone	ND	ug/L	1		10	Q35344	10/10/2008	10/10/2008	
n-Butylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
sec-Butylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
tert-Butylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Carbon disulfide	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Carbon tetrachloride	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Chlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Chloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Chloroform	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Chloromethane	ND	ug/L	1		5.0	Q35344	10/10/2008	10/10/2008	
2-Chlorotoluene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
4-Chlorotoluene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2-Dibromo-3-chloropropane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Dibromochloromethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2-Dibromoethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Dibromomethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2-Dichlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,3-Dichlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,4-Dichlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Dichlorodifluoromethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1-Dichloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2-Dichloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1-Dichloroethene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	

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Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**Outfall B**	Matrix:	Water
Collected On:	10/3/08 12:55	Lab Sample ID:	HCI0801-002
Received On:	10/7/08 9:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation | Analysis): **5030B | 8260B**					
trans-1,2-Dichloroethene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
cis-1,2-Dichloroethene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2-Dichloropropane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,3-Dichloropropane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
2,2-Dichloropropane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1-Dichloropropene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
cis-1,3-Dichloropropene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
trans-1,3-Dichloropropene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Ethylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Hexachlorobutadiene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
2-Hexanone	ND	ug/L	1		10	Q35344	10/10/2008	10/10/2008	
Isopropylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
4-Isopropyltoluene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
4-Methyl-2-pentanone	ND	ug/L	1		10	Q35344	10/10/2008	10/10/2008	
Methylene chloride	ND	ug/L	1		5.0	Q35344	10/10/2008	10/10/2008	
Naphthalene	ND	ug/L	1		5.0	Q35344	10/10/2008	10/10/2008	
n-Propylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Styrene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Tetrachloroethene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Toluene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2,3-Trichlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2,4-Trichlorobenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1,1-Trichloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,1,2-Trichloroethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Trichloroethene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Trichlorofluoromethane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2,3-Trichloropropane	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,2,4-Trimethylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
1,3,5-Trimethylbenzene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Vinyl chloride	ND	ug/L	1		0.20	Q35344	10/10/2008	10/10/2008	
m,p-Xylene	ND	ug/L	1		2.0	Q35344	10/10/2008	10/10/2008	
o-Xylene	ND	ug/L	1		1.0	Q35344	10/10/2008	10/10/2008	
Surrogates:									
4-Bromofluorobenzene	96	% Rec	1		75-120	Q35344	10/10/2008	10/10/2008	
Dibromofluoromethane	112	% Rec	1		85-115	Q35344	10/10/2008	10/10/2008	
1,2-Dichloroethane-d4	118	% Rec	1		70-120	Q35344	10/10/2008	10/10/2008	
Toluene-d8	90	% Rec	1		85-120	Q35344	10/10/2008	10/10/2008	
Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3510C | 8270**					
Bis(2-ethylhexyl)phthalate	**1.3**	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	
Butylbenzylphthalate	ND	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	
Di-n-butylphthalate	ND	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	
Di-n-octylphthalate	ND	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	
Diethylphthalate	ND	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	
Dimethylphthalate	ND	ug/L	1		0.075	Q35266	10/08/2008	10/20/2008	

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Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**Outfall B**	Matrix:	Water
Collected On:	10/3/08 12:55	Lab Sample ID:	HCI0801-002
Received On:	10/7/08 9:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3510C | 8270**					
Surrogates:									
2-Fluorobiphenyl	81	% Rec	1		50-110	Q35266	10/08/2008	10/20/2008	
2-Fluorophenol	42	% Rec	1		20-110	Q35266	10/08/2008	10/20/2008	
Nitrobenzene-d5	80	% Rec	1		40-110	Q35266	10/08/2008	10/20/2008	
Phenol-d5	32	% Rec	1		10-115	Q35266	10/08/2008	10/20/2008	
Terphenyl-d14	112	% Rec	1		50-135	Q35266	10/08/2008	10/20/2008	
2,4,6-Tribromophenol	84	% Rec	1		40-125	Q35266	10/08/2008	10/20/2008	
SIM Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3535 | 8270-PNA**					
Naphthalene	**0.053**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	J
2-Methylnaphthalene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Acenaphthylene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Acenaphthene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Fluorene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Phenanthrene	**0.091**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	J
Anthracene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Fluoranthene	**0.16**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Pyrene	**0.12**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Benzo(a)anthracene	**0.063**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	J
Chrysene	**0.087**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	J
Benzo(b)fluoranthene	**0.11**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Benzo(k)fluoranthene	**0.077**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	J
Benzo(a)pyrene	**0.077**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	J
Indeno(1,2,3-cd)pyrene	**0.11**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Dibenzo(a,h)anthracene	ND	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	
Benzo(g,h,i)perylene	**0.072**	ug/L	1	0.0087	0.096	Q35310	10/09/2008	10/21/2008	J
Surrogates:									
1-Fluoronaphthalene	146	% Rec	1		30-110	Q35310	10/09/2008	10/21/2008	*
Fluorene-d10	165	% Rec	1		45-130	Q35310	10/09/2008	10/21/2008	*
Pyrene-d10	154	% Rec	1		50-140	Q35310	10/09/2008	10/21/2008	*
NWTPH Diesel				Methods (Preparation | Analysis): **3510C | NWTPH-D**					
Diesel Range Organics	**0.39**	mg/L	1		0.050	Q35260	10/08/2008	10/09/2008	
Oil Range Organics	**0.49**	mg/L	1		0.20	Q35260	10/08/2008	10/09/2008	
Surrogates:									
o-Terphenyl	94	% Rec	1		50-150	Q35260	10/08/2008	10/09/2008	
NWTPH Gas				Methods (Preparation | Analysis): **5030B | NWTPH-G**					
Gasoline Range Organics	ND	ug/L	1		25.0	Q35329	10/14/2008	10/14/2008	
Surrogates:									
4-Bromofluorobenzene	97	% Rec	1		50-150	Q35329	10/14/2008	10/14/2008	
Trifluorotoluene	100	% Rec	1		50-150	Q35329	10/14/2008	10/14/2008	

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Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**Trip Blank A**	Matrix:	Water
Collected On:	10/3/08 0:00	Lab Sample ID:	HCI0801-003
Received On:	10/7/08 9:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
NWTPH Gas				Methods (Preparation | Analysis): **5030B | NWTPH-G**					
Gasoline Range Organics	ND	ug/L	1		25.0	Q35329	10/14/2008	10/14/2008	
Surrogates:									
4-Bromofluorobenzene	91	% Rec	1		50-150	Q35329	10/14/2008	10/14/2008	
Trifluorotoluene	99	% Rec	1		50-150	Q35329	10/14/2008	10/14/2008	

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Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**Trip Blank B**	Matrix:	Water
Collected On:	10/3/08 0:00	Lab Sample ID:	HCI0801-004
Received On:	10/7/08 9:00		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
NWTPH Gas				Methods (Preparation | Analysis): **5030B | NWTPH-G**					
Gasoline Range Organics	ND	ug/L	1		25.0	Q35329	10/14/2008	10/14/2008	
Surrogates:									
4-Bromofluorobenzene	93	% Rec	1		50-150	Q35329	10/14/2008	10/14/2008	
Trifluorotoluene	105	% Rec	1		50-150	Q35329	10/14/2008	10/14/2008	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35260**	Analysis Method:	**NWTPH-D**
QC Batch Method:	3510C (M8015-LC)	Analysis Description:	NWTPH Diesel
Preparation Started:	10/08/2008		

Blank: B100808GSVWLG

Analyte	Blank Result	Units	DF	Detection Limit Threshold		Control Limit	Qualifiers
Diesel Range Organics	ND	mg/L	1			0.025	
Oil Range Organics	ND	mg/L	1			0.1	
Surrogates:					% Rec		
o-Terphenyl			1		88	50-150	

LCS: S100808GSVWLG
LCS Duplicate: S100808GSVWLG2

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	Limits	RPD	RPD Limit	Qualifiers
Diesel Range Organics	0.35	mg/L	1	0.500	70	51-147			
	0.42			0.500	84	51-147	18	50	
Oil Range Organics	0.39	mg/L	1	0.500	78	50-150			
	0.46			0.500	91	50-150	16	50	
Surrogates:									
o-Terphenyl			1		80	50-150			
					87	50-150			

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35266**	Analysis Method:	**8270**
QC Batch Method:	3510C (625)	Analysis Description:	Semivolatile Organic Compounds by GC/MS
Preparation Started:	10/08/2008		

Blank: B100808MSVWLA

Analyte	Blank Result	Units	DF	Detection Limit Threshold		Control Limit	Qualifiers
Bis(2-ethylhexyl)phthalat	ND	ug/L	1			1	
Butylbenzylphthalate	ND	ug/L	1			1	
Di-n-butylphthalate	ND	ug/L	1			1	
Di-n-octylphthalate	ND	ug/L	1			1	
Diethylphthalate	ND	ug/L	1			1	
Dimethylphthalate	ND	ug/L	1			1	
Surrogates:					% Rec		
2-Fluorobiphenyl			1		77	50-110	
2-Fluorophenol			1		52	20-110	
Nitrobenzene-d5			1		79	40-110	
Phenol-d5			1		33	10-115	
Terphenyl-d14			1		148	50-135	*
2,4,6-Tribromophenol			1		72	40-125	

LCS: S100808MSVWLA

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Bis(2-ethylhexyl)phthalat	24	ug/L	1	20.0	121	40-125	
Butylbenzylphthalate	21	ug/L	1	20.0	105	45-115	
Di-n-butylphthalate	19	ug/L	1	20.0	97	55-115	
Di-n-octylphthalate	23	ug/L	1	20.0	115	35-135	
Diethylphthalate	17	ug/L	1	20.0	87	40-120	
Dimethylphthalate	18	ug/L	1	20.0	90	25-125	
Surrogates:							
2-Fluorobiphenyl			1		79	50-110	
2-Fluorophenol			1		51	20-110	
Nitrobenzene-d5			1		81	40-110	
Phenol-d5			1		35	10-115	
Terphenyl-d14			1		100	50-135	
2,4,6-Tribromophenol			1		83	40-125	

LCS: S100808MSVWLA2

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Bis(2-ethylhexyl)phthalat	25	ug/L	1	20.0	124	40-125	
Butylbenzylphthalate	22	ug/L	1	20.0	109	45-115	
Di-n-butylphthalate	20	ug/L	1	20.0	101	55-115	
Di-n-octylphthalate	23	ug/L	1	20.0	115	35-135	
Diethylphthalate	18	ug/L	1	20.0	90	40-120	
Dimethylphthalate	19	ug/L	1	20.0	93	25-125	
Surrogates:							
2-Fluorobiphenyl			1		83	50-110	
2-Fluorophenol			1		56	20-110	
Nitrobenzene-d5			1		93	40-110	
Phenol-d5			1		36	10-115	
Terphenyl-d14			1		82	50-135	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35266**	Analysis Method:	**8270**
QC Batch Method:	3510C (625)	Analysis Description:	Semivolatile Organic Compounds by GC/MS
Preparation Started:	10/08/2008		

LCS: S100808MSVWLA2

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Surrogates:							
2,4,6-Tribromophenol			1		87	40-125	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35298**	Analysis Method:	**160.2**
QC Batch Method:	160.2PR	Analysis Description:	Residue, non-filterable, Gravimetric, Dried at 103
Preparation Started:	10/08/2008		

Blank: B100808TSSW01

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Suspended Solids, Total	ND	mg/L	1		2	

Sample Duplicate: FREE081006-001D Parent Sample: FREE081006-001

Analyte	Duplicate Result	Units	DF	Parent Result	RPD	RPD Limit	Qualifiers
Suspended Solids, Total	**23**	mg/L	1	**28**	19.6	20	

Sample Duplicate: WTOW081002-003D Parent Sample: WTOW081002-003

Analyte	Duplicate Result	Units	DF	Parent Result	RPD	RPD Limit	Qualifiers
Suspended Solids, Total	ND	mg/L	1	ND	0	20	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35309**	Analysis Method:	**8082A**
QC Batch Method:	3535(Pest/PCB)	Analysis Description:	Polychlorinated Biphenyls by Gas Chromatography
Preparation Started:	10/09/2008		

Blank: B100908GPBWLO

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Aroclor-1016	ND	ug/L	1		0.05	
Aroclor-1221	ND	ug/L	1		0.05	
Aroclor-1232	ND	ug/L	1		0.05	
Aroclor-1242	ND	ug/L	1		0.05	
Aroclor-1248	ND	ug/L	1		0.05	
Aroclor-1254	ND	ug/L	1		0.05	
Aroclor-1260	ND	ug/L	1		0.05	
Aroclor-1262	ND	ug/L	1		0.05	
Aroclor-1268	ND	ug/L	1		0.05	
Surrogates:				% Rec		
Decachlorobiphenyl			1	102	32-149	
Tetrachloro-m-xylene			1	56	10-129	

LCS: S100908GPBWLO
LCS Duplicate: S100908GPBWLO2

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	Limits	RPD	RPD Limit	Qualifiers
Aroclor-1016	0.75	ug/L	1	0.500	149	45-150			
	0.72			0.500	145	45-150	3		
Aroclor-1260	0.73	ug/L	1	0.500	145	48-148			
	0.73			0.500	146	48-148	1		
Surrogates:									
Decachlorobiphenyl			1		98	32-149			
					123	32-149			
Tetrachloro-m-xylene			1		47	10-129			
					57	10-129			

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35310**	Analysis Method:	**8270-PNA**
QC Batch Method:	3535(PNA)	Analysis Description:	SIM Semivolatile Organic Compounds by GC/MS
Preparation Started:	10/09/2008		

Blank: B100908MPNWLO

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Naphthalene	ND	ug/L	1	0.0090	0.1	
2-Methylnaphthalene	ND	ug/L	1	0.0090	0.1	
Acenaphthylene	ND	ug/L	1	0.0090	0.1	
Acenaphthene	ND	ug/L	1	0.0090	0.1	
Fluorene	ND	ug/L	1	0.0090	0.1	
Phenanthrene	ND	ug/L	1	0.0090	0.1	
Anthracene	ND	ug/L	1	0.0090	0.1	
Fluoranthene	ND	ug/L	1	0.0090	0.1	
Pyrene	ND	ug/L	1	0.0090	0.1	
Benzo(a)anthracene	ND	ug/L	1	0.0090	0.1	
Chrysene	ND	ug/L	1	0.0090	0.1	
Benzo(b)fluoranthene	ND	ug/L	1	0.0090	0.1	
Benzo(k)fluoranthene	ND	ug/L	1	0.0090	0.1	
Benzo(a)pyrene	ND	ug/L	1	0.0090	0.1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1	0.0090	0.1	
Dibenzo(a,h)anthracene	ND	ug/L	1	0.0090	0.1	
Benzo(g,h,i)perylene	ND	ug/L	1	0.0090	0.1	
Surrogates:				% Rec		
1-Fluoronaphthalene			1	75	30-110	
Fluorene-d10			1	76	45-130	
Pyrene-d10			1	73	50-140	

LCS: S100908MPNWLO
LCS Duplicate: S100908MPNWLO2

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	Limits	RPD	RPD Limit	Qualifiers
Naphthalene	1.0	ug/L	1	1.25	82	40-100			
	1.0			1.25	81	40-100	1	30	
2-Methylnaphthalene	1.0	ug/L	1	1.25	80	45-105			
	1.0			1.25	80	45-105	1	30	
Acenaphthylene	0.97	ug/L	1	1.25	77	50-105			
	1.0			1.25	80	50-105	4	30	
Acenaphthene	0.93	ug/L	1	1.25	74	45-110			
	0.89			1.25	71	45-110	4	30	
Fluorene	1.1	ug/L	1	1.25	91	50-110			
	1.1			1.25	88	50-110	3	30	
Phenanthrene	0.96	ug/L	1	1.25	77	50-115			
	0.94			1.25	75	50-115	3	30	
Anthracene	0.98	ug/L	1	1.25	78	55-110			
	0.97			1.25	77	55-110	2	30	
Fluoranthene	1.1	ug/L	1	1.25	84	55-115			
	1.1			1.25	86	55-115	1	30	
Pyrene	0.92	ug/L	1	1.25	74	50-130			
	0.93			1.25	74	50-130	1	30	
Benzo(a)anthracene	1.1	ug/L	1	1.25	86	55-110			
	1.1			1.25	84	55-110	2	30	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35310**	Analysis Method:	**8270-PNA**
QC Batch Method:	3535(PNA)	Analysis Description:	SIM Semivolatile Organic Compounds by GC/MS
Preparation Started:	10/09/2008		

LCS: S100908MPNWLO
LCS Duplicate: S100908MPNWLO2

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	Limits	RPD	RPD Limit	Qualifiers
Chrysene	0.94	ug/L	1	1.25	75	55-110			
	0.93			1.25	74	55-110	1	30	
Benzo(b)fluoranthene	1.0	ug/L	1	1.25	82	45-120			
	1.0			1.25	81	45-120	1	30	
Benzo(k)fluoranthene	1.0	ug/L	1	1.25	80	45-125			
	0.99			1.25	79	45-125	2	30	
Benzo(a)pyrene	1.0	ug/L	1	1.25	83	55-110			
	1.0			1.25	82	55-110	2	30	
Indeno(1,2,3-cd)pyrene	1.1	ug/L	1	1.25	89	45-125			
	1.1			1.25	92	45-125	3	30	
Dibenzo(a,h)anthracene	1.1	ug/L	1	1.25	91	40-125			
	1.2			1.25	93	40-125	3	30	
Benzo(g,h,i)perylene	1.0	ug/L	1	1.25	83	40-125			
	1.1			1.25	86	40-125	3	30	
Surrogates:									
1-Fluoronaphthalene			1		76	30-110			
					74	30-110			
Fluorene-d10			1		80	45-130			
					77	45-130			
Pyrene-d10			1		68	50-140			
					69	50-140			

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35329**	Analysis Method:	**NWTPH-G**
QC Batch Method:	5030B-GCVOA	Analysis Description:	NWTPH Gas
Preparation Started:	10/14/2008		

Blank: B101408GVOWI02

Analyte	Blank Result	Units	DF	Detection Limit Threshold		Control Limit	Qualifiers
Gasoline Range Organics	ND	ug/L	1			12.5	
Surrogates:					% Rec		
4-Bromofluorobenzene			1		99	50-150	
Trifluorotoluene			1		106	50-150	

LCS: S101408GVOWI01

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Surrogates:							
4-Bromofluorobenzene			1		95	50-150	
Trifluorotoluene			1		101	50-150	

Matrix Spike: ERMP081001-001MS Parent Sample: ERMP081001-001

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	90	ug/L	1	100	ND	77	67-125	
Surrogates:								
4-Bromofluorobenzene			1			98	50-150	
Trifluorotoluene			1			101	50-150	

Sample Duplicate: ERMP081001-001D Parent Sample: ERMP081001-001

Analyte	Duplicate Result	Units	DF	Parent Result			RPD	RPD Limit	Qualifiers
Gasoline Range Organics	ND	ug/L	1	ND				50	
Surrogates:					% Rec				
4-Bromofluorobenzene			1		96	50-150			
Trifluorotoluene			1		106	50-150			

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35344**	Analysis Method:	**8260B**
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:	10/10/2008		

Blank: B101008MVOWY1

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Acetone	ND	ug/L	1		20	
Benzene	ND	ug/L	1		1	
Bromobenzene	ND	ug/L	1		1	
Bromochloromethane	ND	ug/L	1		1	
Bromodichloromethane	ND	ug/L	1		1	
Bromoform	ND	ug/L	1		1	
Bromomethane	ND	ug/L	1		1	
2-Butanone	ND	ug/L	1		10	
n-Butylbenzene	ND	ug/L	1		1	
sec-Butylbenzene	ND	ug/L	1		1	
tert-Butylbenzene	ND	ug/L	1		1	
Carbon disulfide	ND	ug/L	1		1	
Carbon tetrachloride	ND	ug/L	1		1	
Chlorobenzene	ND	ug/L	1		1	
Chloroethane	ND	ug/L	1		1	
Chloroform	ND	ug/L	1		1	
Chloromethane	ND	ug/L	1		5	
2-Chlorotoluene	ND	ug/L	1		1	
4-Chlorotoluene	ND	ug/L	1		1	
1,2-Dibromo-3-chloropro	ND	ug/L	1		1	
Dibromochloromethane	ND	ug/L	1		1	
1,2-Dibromoethane	ND	ug/L	1		1	
Dibromomethane	ND	ug/L	1		1	
1,2-Dichlorobenzene	ND	ug/L	1		1	
1,3-Dichlorobenzene	ND	ug/L	1		1	
1,4-Dichlorobenzene	ND	ug/L	1		1	
Dichlorodifluoromethane	ND	ug/L	1		1	
1,1-Dichloroethane	ND	ug/L	1		1	
1,2-Dichloroethane	ND	ug/L	1		1	
1,1-Dichloroethene	ND	ug/L	1		1	
trans-1,2-Dichloroethene	ND	ug/L	1		1	
cis-1,2-Dichloroethene	ND	ug/L	1		1	
1,2-Dichloropropane	ND	ug/L	1		1	
1,3-Dichloropropane	ND	ug/L	1		1	
2,2-Dichloropropane	ND	ug/L	1		1	
1,1-Dichloropropene	ND	ug/L	1		1	
cis-1,3-Dichloropropene	ND	ug/L	1		1	
trans-1,3-Dichloropropene	ND	ug/L	1		1	
Ethylbenzene	ND	ug/L	1		1	
Hexachlorobutadiene	ND	ug/L	1		1	
2-Hexanone	ND	ug/L	1		10	
Isopropylbenzene	ND	ug/L	1		1	
4-Isopropyltoluene	ND	ug/L	1		1	
Methyl tert-butyl ether	ND	ug/L	1		1	
4-Methyl-2-pentanone	ND	ug/L	1		10	
Methylene chloride	ND	ug/L	1		5	
Naphthalene	ND	ug/L	1		5	
n-Propylbenzene	ND	ug/L	1		1	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35344**	Analysis Method:	**8260B**
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:	10/10/2008		

Blank: B101008MVOWY1

Analyte	Blank Result	Units	DF	Detection Limit Threshold		Control Limit	Qualifiers
Styrene	ND	ug/L	1			1	
1,1,1,2-Tetrachloroethane	ND	ug/L	1			1	
1,1,2,2-Tetrachloroethane	ND	ug/L	1			1	
Tetrachloroethene	ND	ug/L	1			1	
Toluene	ND	ug/L	1			1	
1,2,3-Trichlorobenzene	ND	ug/L	1			1	
1,2,4-Trichlorobenzene	ND	ug/L	1			1	
1,1,1-Trichloroethane	ND	ug/L	1			1	
1,1,2-Trichloroethane	ND	ug/L	1			1	
Trichloroethene	ND	ug/L	1			1	
Trichlorofluoromethane	ND	ug/L	1			1	
1,2,3-Trichloropropane	ND	ug/L	1			1	
1,2,4-Trimethylbenzene	ND	ug/L	1			1	
1,3,5-Trimethylbenzene	ND	ug/L	1			1	
Vinyl chloride	ND	ug/L	1			0.2	
m,p-Xylene	ND	ug/L	1			2	
o-Xylene	ND	ug/L	1			1	
Surrogates:					% Rec		
4-Bromofluorobenzene			1		93	75-120	
Dibromofluoromethane			1		110	85-115	
1,2-Dichloroethane-d4			1		115	70-120	
Toluene-d8			1		88	85-120	

LCS: S101008MVOWY1

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Acetone	54	ug/L	1	50.0	108	40-140	
Benzene	44	ug/L	1	50.0	88	80-120	
Bromobenzene	46	ug/L	1	50.0	91	75-125	
Bromochloromethane	50	ug/L	1	50.0	100	65-130	
Bromodichloromethane	47	ug/L	1	50.0	95	75-120	
Bromoform	51	ug/L	1	50.0	103	70-130	
Bromomethane	51	ug/L	1	50.0	101	30-145	
2-Butanone	41	ug/L	1	50.0	83	30-150	
n-Butylbenzene	47	ug/L	1	50.0	94	70-135	
sec-Butylbenzene	49	ug/L	1	50.0	97	70-125	
tert-Butylbenzene	50	ug/L	1	50.0	101	70-130	
Carbon disulfide	42	ug/L	1	50.0	83	35-160	
Carbon tetrachloride	56	ug/L	1	50.0	112	65-140	
Chlorobenzene	48	ug/L	1	50.0	97	80-120	
Chloroethane	48	ug/L	1	50.0	95	60-135	
Chloroform	51	ug/L	1	50.0	103	65-135	
Chloromethane	49	ug/L	1	50.0	99	40-125	
2-Chlorotoluene	45	ug/L	1	50.0	91	75-125	
4-Chlorotoluene	45	ug/L	1	50.0	91	75-130	
1,2-Dibromo-3-chloropro	53	ug/L	1	50.0	105	50-130	
Dibromochloromethane	52	ug/L	1	50.0	103	60-135	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35344**	Analysis Method:	**8260B**
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:	10/10/2008		

LCS: S101008MVOWY1

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane	45	ug/L	1	50.0	89	80-120	
Dibromomethane	44	ug/L	1	50.0	88	75-125	
1,2-Dichlorobenzene	50	ug/L	1	50.0	99	70-120	
1,3-Dichlorobenzene	47	ug/L	1	50.0	95	75-125	
1,4-Dichlorobenzene	48	ug/L	1	50.0	96	75-125	
Dichlorodifluoromethane	57	ug/L	1	50.0	114	30-155	
1,1-Dichloroethane	49	ug/L	1	50.0	97	70-135	
1,2-Dichloroethane	50	ug/L	1	50.0	100	70-130	
1,1-Dichloroethene	52	ug/L	1	50.0	105	70-130	
trans-1,2-Dichloroethene	49	ug/L	1	50.0	99	60-140	
cis-1,2-Dichloroethene	49	ug/L	1	50.0	98	70-125	
1,2-Dichloropropane	41	ug/L	1	50.0	83	75-125	
1,3-Dichloropropane	42	ug/L	1	50.0	84	75-125	
2,2-Dichloropropane	55	ug/L	1	50.0	110	60-135	
1,1-Dichloropropene	50	ug/L	1	50.0	99	75-130	
cis-1,3-Dichloropropene	44	ug/L	1	50.0	89	70-130	
trans-1,3-Dichloropropene	43	ug/L	1	50.0	86	55-140	
Ethylbenzene	47	ug/L	1	50.0	95	75-125	
Hexachlorobutadiene	48	ug/L	1	50.0	95	50-140	
2-Hexanone	40	ug/L	1	50.0	81	55-130	
Isopropylbenzene	55	ug/L	1	50.0	110	75-125	
4-Isopropyltoluene	50	ug/L	1	50.0	99	75-130	
Methyl tert-butyl ether	50	ug/L	1	50.0	101	65-125	
4-Methyl-2-pentanone	41	ug/L	1	50.0	82	60-135	
Methylene chloride	48	ug/L	1	50.0	97	55-140	
Naphthalene	53	ug/L	1	50.0	107	55-140	
n-Propylbenzene	46	ug/L	1	50.0	91	70-130	
Styrene	50	ug/L	1	50.0	99	65-135	
1,1,1,2-Tetrachloroethane	59	ug/L	1	50.0	117	80-130	
1,1,2,2-Tetrachloroethane	44	ug/L	1	50.0	88	65-130	
Tetrachloroethene	53	ug/L	1	50.0	106	45-150	
Toluene	47	ug/L	1	50.0	93	75-120	
1,2,3-Trichlorobenzene	50	ug/L	1	50.0	100	55-140	
1,2,4-Trichlorobenzene	53	ug/L	1	50.0	106	65-135	
1,1,1-Trichloroethane	55	ug/L	1	50.0	110	65-130	
1,1,2-Trichloroethane	44	ug/L	1	50.0	87	75-125	
Trichloroethene	48	ug/L	1	50.0	95	70-125	
Trichlorofluoromethane	55	ug/L	1	50.0	110	60-145	
1,2,3-Trichloropropane	43	ug/L	1	50.0	86	75-125	
1,2,4-Trimethylbenzene	50	ug/L	1	50.0	99	75-130	
1,3,5-Trimethylbenzene	50	ug/L	1	50.0	99	75-130	
Vinyl chloride	48	ug/L	1	50.0	96	50-145	
m,p-Xylene	96	ug/L	1	100	96	75-130	
o-Xylene	52	ug/L	1	50.0	104	80-120	
Surrogates:							
4-Bromofluorobenzene			1		89	75-120	
Dibromofluoromethane			1		105	85-115	
1,2-Dichloroethane-d4			1		107	70-120	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35344**	Analysis Method:	**8260B**
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:	10/10/2008		

LCS: S101008MVOWY1

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Surrogates:							
Toluene-d8			1		92	85-120	

Matrix Spike: OU815-004MS — Parent Sample: OU815-004

Matrix Spike Duplicate: OU815-004MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
Vinyl chloride	46	ug/L	1	50.0	ND	93	50-145			
	45			50.0		90	50-145	3	30	
1,1-Dichloroethene	53	ug/L	1	50.0	ND	106	70-130			
	50			50.0		100	70-130	5	30	
Benzene	45	ug/L	1	50.0	ND	91	80-120			
	44			50.0		88	80-120	3	30	
1,2-Dichloroethane	52	ug/L	1	50.0	ND	103	70-130			
	49			50.0		99	70-130	4	30	
1,2-Dichloropropane	42	ug/L	1	50.0	ND	83	75-125			
	41			50.0		82	75-125	1	30	
Toluene	46	ug/L	1	50.0	ND	92	75-120			
	46			50.0		92	75-120	0	30	
1,1,2-Trichloroethane	44	ug/L	1	50.0	ND	88	75-125			
	44			50.0		88	75-125	1	30	
1,2-Dibromoethane	44	ug/L	1	50.0	ND	89	80-120			
	46			50.0		91	80-120	3	30	
Ethylbenzene	47	ug/L	1	50.0	ND	95	75-125			
	47			50.0		94	75-125	1	30	
Surrogates:										
Dibromofluoromethane			1			105	85-115			
						103	85-115			
1,2-Dichloroethane-d4			1			111	70-120			
						108	70-120			
Toluene-d8			1			91	85-120			
						92	85-120			
4-Bromofluorobenzene			1			92	75-120			
						93	75-120			

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0801
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q35499**	Analysis Method:	**8082A**
QC Batch Method:	3535(Pest/PCB)	Analysis Description:	Polychlorinated Biphenyls by Gas Chromatography
Preparation Started:	10/16/2008		

Blank: B101608GPBWLO

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Aroclor-1016	ND	ug/L	1		0.05	
Aroclor-1221	ND	ug/L	1		0.05	
Aroclor-1232	ND	ug/L	1		0.05	
Aroclor-1242	ND	ug/L	1		0.05	
Aroclor-1248	ND	ug/L	1		0.05	
Aroclor-1254	ND	ug/L	1		0.05	
Aroclor-1260	ND	ug/L	1		0.05	
Aroclor-1262	ND	ug/L	1		0.05	
Aroclor-1268	ND	ug/L	1		0.05	

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Notes and Definitions

SDG No: **HCI0801**

Report Specific Notes:

ND	The analyte of interest was not detected, to the limit of detection indicated
J	The value reported is below the routine reporting limit and should be considered an estimate

Laboratory Reporting Conventions:

DF	Dilution factor
Detection Limit Threshold	The project or method defined limit that defines the lower bound for estimated results. This may be the MDL or IDL or a project-specified value.
MDL	The project or method defined limit that defines the lower bound for estimated results. This may be the MDL or IDL or a project-specified value. Detection Limit Thresholds are listed on the report only if the data has been evaluated below the Reporting Limit. Results between the Reporting Limit and the Detection Limit Threshold are reported as estimated results.
IDL	Instrument Detection Limit. IDLs are in instrument basis units. Reported results for samples are normalized appropriately using the preparation and analysis steps performed.
Reporting Limit	The minimum detection limit for reporting unqualified results under routine laboratory operating conditions. Typically this is the PQL but it may be a different concentration on a project-specific basis.
QC Batch Group	Quality Control Batch Group. The entity that links analytical results and supporting quality control results.
% Rec	Percent recovery.
Limits	The upper and lower control limits for spike recoveries.
RPD	Relative Percent Difference. The relative difference between duplicate results (matrix spike, blank spike, or sample duplicate) expressed as a percentage.
RPD Limit	The maximum RPD allowed for a set of duplicate measurements (see RPD).
Spike conc.	The measured concentration, in sample basis units, of a spiked sample.
PQL	Practical Quantitation Limit. The quantitation limit achievable by the laboratory under routine operating conditions. The PQL will be normalized for deviations from these conditions such as dilutions, dry weight adjustment, etc.
LCS	Laboratory Control Sample

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HC I0801
LS#8909

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1255418

Section A Required Client Information
Company: Hart Crowser, Inc.
Address: Five Centerpointe #240
Lake Oswego OR 97035
Email To: leon.lahiere@hartcrowser.com
Phone: 971-327-9103 Fax: 503 620 6178
Requested Due Date/TAT: Std

Section B Required Project Information:
Report To: Leon Lahiere
Copy To:
Purchase Order No.: 15684-00/08
Project Name: Brix - Portland
Project Number: 15684-00/08

Section C Invoice Information:
Attention: Leon Lahiere
Company Name: Hart Crowser Inc.
Address: Five Centerpointe Lake Oswego
Pace Quote Reference: Seattle-0922008
Pace Project Manager: Lisa Dameighini
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER JSCS-DRC
Site Location STATE: OR

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓	PCB 8082-Low	PAHs 8270SIM-Low	Phthalates 8270 Ch	All PPL-DX	All PPL-GX	VOCs 8260B	TCL 1					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Outfall A	WT	G	10/3/08	1310	10/3/08	1355	15C	3										X	X	X	X	X	X	X						
2	Outfall B	WT	G	10/3/08	1220	10/3/08	1255	15C	3										X	X	X	X	X	X	X						
3	Trip Blank A	WT							3														X								
4	Trip Blank B	WT							3														X								
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Use Temp Blank for Cooler Temp.	Hart Crowser	10-6-08	1150		10/6/08	1150	
		10-7	900		10-7-08	900	

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Leon Lahiere
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 10-05-08

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Cooler Receipt Form
Pace Analytical Services, Inc.

SDG: HCI0801 Taken By: Client

Cooler: AAF756 Transferred: Courier

COC #: 1255418

Project: Brix Maritime-Joint Source Control (Hart Crowser, Inc.)

Date samples were received at the laboratory: **10/7/2008**

Date cooler was opened: **10/7/2008 9:00AM**

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? ..... **NO**
   if YES, record carrier name and airbill number:
2. Were custody seals unbroken and intact at the date and time of arrival? ..... **INTACT**
   Date On Custody Seal: Custody Seals Description: **1 in front**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... **YES**
4. Did you screen samples for radioactivity using the Geiger Counter? ..... **NO**
5. Were custody papers filled out properly (ink, signed, etc.)? ..... **YES**
6. Did you sign custody papers in the appropriate place? ..... **YES**
7. If required, was enough cooling material present? ..... **NO**
8. Have designated person initial here to acknowledge receipt of cooler: RA

B. LOG-IN PHASE:

Date samples were logged-in: **10/7/2008 10:44AM**

Logged-in by Rachel Frank (sign) [signature]

9. Describe type of packing in cooler:

10. Were all bottles sealed in separate plastic bags? ..... **NO**
11. Were labels in good condition? ..... **YES**
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... **YES**
13. Did all bottle labels agree with custody papers? ..... **YES**
14. Were correct containers used for the tests indicated? ..... **YES**
15. Were the correct pHs observed? ..... **YES**
16. Was a sufficient amount of sample sent for tests indicated? ..... **YES**
17. Were bubbles absent in VOA samples? ..... **NO**
18. Temperatures: **9.7, 9.8, 10.2**

DISCREPANCIES:

Bubble bags for 1000mL Ambers were not sealed. There was no ice in cooler, just water.

Date Printed: 10/7/2008 10:51

Cooler Receipt Form
Pace Analytical Services, Inc.

SDG: HCI0801 Taken By: Client

Cooler: AAN022 Transferred: Courier

COC #: 1255418

Project: Brix Maritime-Joint Source Control (Hart Crowser, Inc.)

Date samples were received at the laboratory: **10/7/2008**

Date cooler was opened: **10/7/2008 9:00AM**

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? ..... **NO**
   if YES, record carrier name and airbill number:
2. Were custody seals unbroken and intact at the date and time of arrival? ..... **INTACT**
   Date On Custody Seal: Custody Seals Description: **1 in front**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... **YES**
4. Did you screen samples for radioactivity using the Geiger Counter? ..... **NO**
5. Were custody papers filled out properly (ink, signed, etc.)? ..... **YES**
6. Did you sign custody papers in the appropriate place? ..... **YES**
7. If required, was enough cooling material present? ..... **NO**
8. Have desiguated person initial bere to acknowledge receipt of cooler: _____

B. LOG-IN PHASE:

Date samples were logged-in: **10/7/2008 10:44AM**

Logged-in by Rachel Frank (sign) _____

9. Describe type of packing in cooler:

10. Were all bottles sealed in separate plastic bags? ..... **NO**
11. Were labels in good condition? ..... **YES**
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... **YES**
13. Did all bottle labels agree with custody papers? ..... **YES**
14. Were correct containers used for the tests indicated? ..... **YES**
15. Were the correct pHs observed? ..... **YES**
16. Was a sufficient amount of sample sent for tests indicated? ..... **YES**
17. Were bubbles absent in VOA samples? ..... **NO**
18. Temperatures: **12.0, 11.7, 11.5**

DISCREPANCIES:

Bubble bags for 1000mL Ambers were not sealed. There was no ice in cooler, just water.

Date Printed: 10/7/2008 10:54

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: HCI0801
Cooler: AAF756
Temperatures: 9.7, 9.8, 10.2
COC #: 1255418

Sample	Bottle #	Bottle Description	pH	Bubbles
HCI0801-001	0001	1000 mL boston round, amber glass	7	N/A
	0002	1000 mL boston round, amber glass	7	N/A
	0003	1000 mL boston round, amber glass	7	N/A
	0004	1000 mL boston round, amber glass	7	N/A
	0005	1000 mL boston round, amber glass, HCl	<2	N/A
	0006	1000 mL boston round, amber glass, HCl	<2	N/A
	0007	1000 mL juice, plastic	7	N/A
	0008	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0009	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0010	40 ml OTWS, clear glass, HCl	N/C	None
	0011	40 ml OTWS, clear glass, HCl	N/C	> 1/4
	0012	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0013	40 ml OTWS, clear glass, HCl	N/C	None
HCI0801-003	0001	40 ml OTWS, clear glass, HCl	N/C	None
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4+/- 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
NC	Not Checked for pH

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: HCI0801
Cooler: AAN022
Temperatures: 12.0, 11.7, 11.5
COC #: 1255418

Sample	Bottle #	Bottle Description	pH	Bubbles
HCI0801-002	0001	1000 mL boston round, amber glass	7	N/A
	0002	1000 mL boston round, amber glass	7	N/A
	0003	1000 mL boston round, amber glass	7	N/A
	0004	1000 mL boston round, amber glass	7	N/A
	0005	1000 mL boston round, amber glass, HCl	<2	N/A
	0006	1000 mL boston round, amber glass, HCl	<2	N/A
	0007	1000 mL juice, plastic	7	N/A
	0008	40 ml OTWS, clear glass, HCl	N/C	None
	0009	40 ml OTWS, clear glass, HCl	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None
	0011	40 ml OTWS, clear glass, HCl	N/C	None
	0012	40 ml OTWS, clear glass, HCl	N/C	None
	0013	40 ml OTWS, clear glass, HCl	N/C	None
HCI0801-004	0001	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0002	40 ml OTWS, clear glass, HCl	N/C	None
	0003	40 ml OTWS, clear glass, HCl	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4+/- 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
NC	Not Checked for pH

Pace Analytical Services, Inc.
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Client: Hart Crowser, Inc.

ATTN: Leon Lahiere

Project Name: **Brix Maritime-Joint Source Control**

SDG Number: **HCI0802**
Date Received: **11/21/2008 8:30:00AM**
Date Reported: **12/09/2008**

Dear Leon Lahiere,

Enclosed are the analytical results for the sample(s) received by the laboratory on November 21, 2008. The results relate only to the samples included in this report. Unless otherwise instructed all samples with the exception of samples which are consumed during the analysis, such as microbiological samples, will be disposed of on or after March 1, 2009. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

If you have any question concerning the report, please feel free to contact me.

Respectfully submitted,
Pace Analytical Services, Inc.

Kara Godineaux

Kara Godineaux

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Pace Analytical Services, Inc.

Sample Summary

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

Sample Identification:

Sample Description	Lab Sample ID	Collection Date/Time		Type
OUTFALL A	HCI0802-001	11/20/2008	09:10	Water
OUTFALL B	HCI0802-002	11/20/2008	08:35	Water

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Pace Analytical Services, Inc.

Test Request Summary

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Pace Project No.:		Project Manager:	Leon Lahiere

Samples	Methods									
Client Sample ID	160.2 1	8260B 2	8270-P 3	NWTPH-4	NWTPH-5	8082A 6	8270 7	8	9	10
OUTFALL A	X	X	X	X	X	X	X			
OUTFALL B	X	X	X	X	X	X	X			

Determinations:

1 = 160.2 Total Suspended Solids, Water

2 = 8260-1 VOAs Water Full list

3 = 8270 SPE SIM level PNA Water (Routine)

4 = NWTPH Dx Water

5 = NWTPH Gx Water

6 = 8082 PCB Aroclors Water -Low

7 = 8270 SVOAs Water Low level Phthalates

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Pace Analytical Services, Inc.

Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**OUTFALL A**	Matrix:	Water
Collected On:	11/20/08 9:10	Lab Sample ID:	HCI0802-001
Received On:	11/21/08 8:30		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Residue, non-filterable, Gravimetric, Dried at 103 (TSS- total Suspended Solids)				Methods (Preparation | Analysis): **NONE | 160.2**					
Suspended Solids, Total	**7**	mg/L	1		2	Q36542	11/24/2008	11/24/2008	
Polychlorinated Biphenyls by Gas Chromatography				Methods (Preparation | Analysis): **3535 | 8082A**					
Aroclor-1016	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1221	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1232	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1242	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1248	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1254	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1260	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1262	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1268	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Surrogates:									
Decachlorobiphenyl	94	% Rec	1		32-149	Q36565	11/26/2008	11/28/2008	
Tetrachloro-m-xylene	94	% Rec	1		10-129	Q36565	11/26/2008	11/28/2008	
Purgeable Organic Compounds by GC/MS				Methods (Preparation | Analysis): **5030B | 8260B**					
Acetone	ND	ug/L	1		20	Q36722	12/03/2008	12/03/2008	
Benzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Bromobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Bromochloromethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Bromodichloromethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Bromoform	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Bromomethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
2-Butanone	ND	ug/L	1		10	Q36722	12/03/2008	12/03/2008	
n-Butylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
sec-Butylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
tert-Butylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Carbon disulfide	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Carbon tetrachloride	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Chlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Chloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Chloroform	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Chloromethane	ND	ug/L	1		5.0	Q36722	12/03/2008	12/03/2008	
2-Chlorotoluene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
4-Chlorotoluene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2-Dibromo-3-chloropropane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Dibromochloromethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2-Dibromoethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Dibromomethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2-Dichlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,3-Dichlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,4-Dichlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Dichlorodifluoromethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1-Dichloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2-Dichloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1-Dichloroethene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	

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Pace Analytical Services, Inc.

Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**OUTFALL A**	Matrix:	Water
Collected On:	11/20/08 9:10	Lab Sample ID:	HCI0802-001
Received On:	11/21/08 8:30		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation | Analysis): **5030B | 8260B**					
trans-1,2-Dichloroethene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
cis-1,2-Dichloroethene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2-Dichloropropane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,3-Dichloropropane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
2,2-Dichloropropane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1-Dichloropropene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
cis-1,3-Dichloropropene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
trans-1,3-Dichloropropene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Ethylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Hexachlorobutadiene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
2-Hexanone	ND	ug/L	1		10	Q36722	12/03/2008	12/03/2008	
Isopropylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
4-Isopropyltoluene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
4-Methyl-2-pentanone	ND	ug/L	1		10	Q36722	12/03/2008	12/03/2008	
Methylene chloride	ND	ug/L	1		5.0	Q36722	12/03/2008	12/03/2008	
Naphthalene	ND	ug/L	1		5.0	Q36722	12/03/2008	12/03/2008	
n-Propylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Styrene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Tetrachloroethene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Toluene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2,3-Trichlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2,4-Trichlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1,1-Trichloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1,2-Trichloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Trichloroethene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Trichlorofluoromethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2,3-Trichloropropane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2,4-Trimethylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,3,5-Trimethylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Vinyl chloride	ND	ug/L	1		0.20	Q36722	12/03/2008	12/03/2008	
m,p-Xylene	ND	ug/L	1		2.0	Q36722	12/03/2008	12/03/2008	
o-Xylene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Surrogates:									
4-Bromofluorobenzene	101	% Rec	1		75-120	Q36722	12/03/2008	12/03/2008	
Dibromofluoromethane	104	% Rec	1		85-115	Q36722	12/03/2008	12/03/2008	
1,2-Dichloroethane-d4	96	% Rec	1		70-120	Q36722	12/03/2008	12/03/2008	
Toluene-d8	100	% Rec	1		85-120	Q36722	12/03/2008	12/03/2008	
Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3510C | 8270**					
Bis(2-ethylhexyl)phthalate	**4.1**	ug/L	1		0.077	Q36561	11/26/2008	12/03/2008	
Butylbenzylphthalate	ND	ug/L	1		0.077	Q36561	11/26/2008	12/03/2008	
Di-n-butylphthalate	**1.4**	ug/L	1		0.077	Q36561	11/26/2008	12/03/2008	
Di-n-octylphthalate	ND	ug/L	1		0.077	Q36561	11/26/2008	12/03/2008	
Diethylphthalate	ND	ug/L	1		0.077	Q36561	11/26/2008	12/03/2008	
Dimethylphthalate	ND	ug/L	1		0.077	Q36561	11/26/2008	12/03/2008	

Pace Analytical Seattle Laboratory

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Pace Analytical Services, Inc.

Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**OUTFALL A**	Matrix:	Water
Collected On:	11/20/08 9:10	Lab Sample ID:	HCI0802-001
Received On:	11/21/08 8:30		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3510C | 8270**					
Surrogates:									
2-Fluorobiphenyl	80	% Rec	1		50-110	Q36561	11/26/2008	12/03/2008	
2-Fluorophenol	48	% Rec	1		20-110	Q36561	11/26/2008	12/03/2008	
Nitrobenzene-d5	83	% Rec	1		40-110	Q36561	11/26/2008	12/03/2008	
Phenol-d5	29	% Rec	1		10-115	Q36561	11/26/2008	12/03/2008	
Terphenyl-d14	104	% Rec	1		50-135	Q36561	11/26/2008	12/03/2008	
2,4,6-Tribromophenol	102	% Rec	1		40-125	Q36561	11/26/2008	12/03/2008	
SIM Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3535 | 8270-PNA**					
Naphthalene	**0.071**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	J
2-Methylnaphthalene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Acenaphthylene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Acenaphthene	**0.076**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	J
Fluorene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Phenanthrene	**0.11**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Anthracene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Fluoranthene	**0.067**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	J
Pyrene	**0.057**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	J
Benzo(a)anthracene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Chrysene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Benzo(b)fluoranthene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Benzo(k)fluoranthene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Benzo(a)pyrene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Dibenzo(a,h)anthracene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Benzo(g,h,i)perylene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Surrogates:									
1-Fluoronaphthalene	62	% Rec	1		30-110	Q36503	11/24/2008	12/05/2008	
Fluorene-d10	88	% Rec	1		45-130	Q36503	11/24/2008	12/05/2008	
Pyrene-d10	69	% Rec	1		50-140	Q36503	11/24/2008	12/05/2008	
NWTPH Diesel				Methods (Preparation | Analysis): **3510C | NWTPH-D**					
Diesel Range Organics	**0.11**	mg/L	1		0.052	Q36539	11/25/2008	12/06/2008	
Oil Range Organics	ND	mg/L	1		0.21	Q36539	11/25/2008	12/06/2008	
Surrogates:									
o-Terphenyl	74	% Rec	1		50-150	Q36539	11/25/2008	12/06/2008	
NWTPH Gas				Methods (Preparation | Analysis): **5030B | NWTPH-G**					
Gasoline Range Organics	ND	ug/L	1		25.0	Q36488	11/21/2008	11/21/2008	
Surrogates:									
4-Bromofluorobenzene	92	% Rec	1		50-150	Q36488	11/21/2008	11/21/2008	
Trifluorotoluene	99	% Rec	1		50-150	Q36488	11/21/2008	11/21/2008	

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Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**OUTFALL B**	Matrix:	Water
Collected On:	11/20/08 8:35	Lab Sample ID:	HCI0802-002
Received On:	11/21/08 8:30		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Residue, non-filterable, Gravimetric, Dried at 103 (TSS- total Suspended Solids)				Methods (Preparation | Analysis): **NONE | 160.2**					
Suspended Solids, Total	**27**	mg/L	1		2	Q36542	11/24/2008	11/24/2008	
Polychlorinated Biphenyls by Gas Chromatography				Methods (Preparation | Analysis): **3535 | 8082A**					
Aroclor-1016	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1221	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1232	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1242	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1248	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1254	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1260	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1262	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Aroclor-1268	ND	ug/L	1		0.048	Q36565	11/26/2008	11/28/2008	
Surrogates:									
Decachlorobiphenyl	126	% Rec	1		32-149	Q36565	11/26/2008	11/28/2008	
Tetrachloro-m-xylene	129	% Rec	1		10-129	Q36565	11/26/2008	11/28/2008	
Purgeable Organic Compounds by GC/MS				Methods (Preparation | Analysis): **5030B | 8260B**					
Acetone	ND	ug/L	1		20	Q36722	12/03/2008	12/03/2008	
Benzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Bromobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Bromochloromethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Bromodichloromethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Bromoform	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Bromomethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
2-Butanone	ND	ug/L	1		10	Q36722	12/03/2008	12/03/2008	
n-Butylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
sec-Butylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
tert-Butylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Carbon disulfide	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Carbon tetrachloride	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Chlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Chloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Chloroform	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Chloromethane	ND	ug/L	1		5.0	Q36722	12/03/2008	12/03/2008	
2-Chlorotoluene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
4-Chlorotoluene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2-Dibromo-3-chloropropane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Dibromochloromethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2-Dibromoethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Dibromomethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2-Dichlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,3-Dichlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,4-Dichlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Dichlorodifluoromethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1-Dichloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2-Dichloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1-Dichloroethene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	

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Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**OUTFALL B**	Matrix:	Water
Collected On:	11/20/08 8:35	Lab Sample ID:	HCI0802-002
Received On:	11/21/08 8:30		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Purgeable Organic Compounds by GC/MS				Methods (Preparation | Analysis): **5030B | 8260B**					
trans-1,2-Dichloroethene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
cis-1,2-Dichloroethene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2-Dichloropropane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,3-Dichloropropane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
2,2-Dichloropropane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1-Dichloropropene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
cis-1,3-Dichloropropene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
trans-1,3-Dichloropropene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Ethylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Hexachlorobutadiene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
2-Hexanone	ND	ug/L	1		10	Q36722	12/03/2008	12/03/2008	
Isopropylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
4-Isopropyltoluene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Methyl tert-butyl ether	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
4-Methyl-2-pentanone	ND	ug/L	1		10	Q36722	12/03/2008	12/03/2008	
Methylene chloride	ND	ug/L	1		5.0	Q36722	12/03/2008	12/03/2008	
Naphthalene	ND	ug/L	1		5.0	Q36722	12/03/2008	12/03/2008	
n-Propylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Styrene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Tetrachloroethene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Toluene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2,3-Trichlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2,4-Trichlorobenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1,1-Trichloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,1,2-Trichloroethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Trichloroethene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Trichlorofluoromethane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2,3-Trichloropropane	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,2,4-Trimethylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
1,3,5-Trimethylbenzene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Vinyl chloride	ND	ug/L	1		0.20	Q36722	12/03/2008	12/03/2008	
m,p-Xylene	ND	ug/L	1		2.0	Q36722	12/03/2008	12/03/2008	
o-Xylene	ND	ug/L	1		1.0	Q36722	12/03/2008	12/03/2008	
Surrogates:									
4-Bromofluorobenzene	100	% Rec	1		75-120	Q36722	12/03/2008	12/03/2008	
Dibromofluoromethane	104	% Rec	1		85-115	Q36722	12/03/2008	12/03/2008	
1,2-Dichloroethane-d4	96	% Rec	1		70-120	Q36722	12/03/2008	12/03/2008	
Toluene-d8	98	% Rec	1		85-120	Q36722	12/03/2008	12/03/2008	
Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3510C | 8270**					
Bis(2-ethylhexyl)phthalate	**3.6**	ug/L	1		0.076	Q36561	11/26/2008	12/03/2008	
Butylbenzylphthalate	ND	ug/L	1		0.076	Q36561	11/26/2008	12/03/2008	
Di-n-butylphthalate	ND	ug/L	1		0.076	Q36561	11/26/2008	12/03/2008	
Di-n-octylphthalate	ND	ug/L	1		0.076	Q36561	11/26/2008	12/03/2008	
Diethylphthalate	ND	ug/L	1		0.076	Q36561	11/26/2008	12/03/2008	
Dimethylphthalate	ND	ug/L	1		0.076	Q36561	11/26/2008	12/03/2008	

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Analytical Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

Client Sample ID:	**OUTFALL B**	Matrix:	Water
Collected On:	11/20/08 8:35	Lab Sample ID:	HCI0802-002
Received On:	11/21/08 8:30		

Analyte	Result	Units	DF	Detection Limit Threshold	Reporting Limit	QC Batch Group	Prepared	Analyzed	Qualifiers
Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3510C | 8270**					
Surrogates:									
2-Fluorobiphenyl	79	% Rec	1		50-110	Q36561	11/26/2008	12/03/2008	
2-Fluorophenol	45	% Rec	1		20-110	Q36561	11/26/2008	12/03/2008	
Nitrobenzene-d5	81	% Rec	1		40-110	Q36561	11/26/2008	12/03/2008	
Phenol-d5	28	% Rec	1		10-115	Q36561	11/26/2008	12/03/2008	
Terphenyl-d14	103	% Rec	1		50-135	Q36561	11/26/2008	12/03/2008	
2,4,6-Tribromophenol	100	% Rec	1		40-125	Q36561	11/26/2008	12/03/2008	
SIM Semivolatile Organic Compounds by GC/MS				Methods (Preparation | Analysis): **3535 | 8270-PNA**					
Naphthalene	**0.095**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
2-Methylnaphthalene	**0.048**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	J
Acenaphthylene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Acenaphthene	**0.14**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Fluorene	**0.10**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Phenanthrene	**0.49**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Anthracene	**0.067**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	J
Fluoranthene	**0.79**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Pyrene	**0.65**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Benzo(a)anthracene	**0.25**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Chrysene	**0.43**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Benzo(b)fluoranthene	**0.50**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Benzo(k)fluoranthene	**0.32**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Benzo(a)pyrene	**0.36**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Indeno(1,2,3-cd)pyrene	**0.39**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Dibenzo(a,h)anthracene	ND	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Benzo(g,h,i)perylene	**0.31**	ug/L	1	0.0086	0.095	Q36503	11/24/2008	12/05/2008	
Surrogates:									
1-Fluoronaphthalene	58	% Rec	1		30-110	Q36503	11/24/2008	12/05/2008	
Fluorene-d10	81	% Rec	1		45-130	Q36503	11/24/2008	12/05/2008	
Pyrene-d10	70	% Rec	1		50-140	Q36503	11/24/2008	12/05/2008	
NWTPH Diesel				Methods (Preparation | Analysis): **3510C | NWTPH-D**					
Diesel Range Organics	**0.35**	mg/L	1		0.052	Q36539	11/25/2008	12/06/2008	
Oil Range Organics	**0.53**	mg/L	1		0.21	Q36539	11/25/2008	12/06/2008	
Surrogates:									
o-Terphenyl	100	% Rec	1		50-150	Q36539	11/25/2008	12/06/2008	
NWTPH Gas				Methods (Preparation | Analysis): **5030B | NWTPH-G**					
Gasoline Range Organics	ND	ug/L	1		25.0	Q36488	11/21/2008	11/21/2008	
Surrogates:									
4-Bromofluorobenzene	91	% Rec	1		50-150	Q36488	11/21/2008	11/21/2008	
Trifluorotoluene	98	% Rec	1		50-150	Q36488	11/21/2008	11/21/2008	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36488**	Analysis Method:	**NWTPH-G**
QC Batch Method:	5030B-GCVOA	Analysis Description:	NWTPH Gas
Preparation Started:	11/21/2008		

Blank: B112108GVOWI1

Analyte	Blank Result	Units	DF	Detection Limit Threshold		Control Limit	Qualifiers
Gasoline Range Organics	ND	ug/L	1			12.5	
Surrogates:					% Rec		
4-Bromofluorobenzene			1		88	50-150	
Trifluorotoluene			1		94	50-150	

LCS: S112108GVOWI1

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	83.1	ug/L	1	100	83	71-122	
Surrogates:							
4-Bromofluorobenzene			1		89	50-150	
Trifluorotoluene			1		93	50-150	

Matrix Spike: HODOT0806-001MS — Parent Sample: HODOT0806-001

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	100	ug/L	1	100	ND	105	67-125	
Surrogates:								
4-Bromofluorobenzene			1			93	50-150	
Trifluorotoluene			1			98	50-150	

Sample Duplicate: HODOT0806-001D — Parent Sample: HODOT0806-001

Analyte	Duplicate Result	Units	DF	Parent Result			RPD	RPD Limit	Qualifiers
Gasoline Range Organics	ND	ug/L	1	ND			23.6	50	
Surrogates:					% Rec				
4-Bromofluorobenzene			1		89	50-150			
Trifluorotoluene			1		98	50-150			

Sample Duplicate: LAQA0802-003D — Parent Sample: LAQA0802-003

Analyte	Duplicate Result	Units	DF	Parent Result			RPD	RPD Limit	Qualifiers
Gasoline Range Organic	**30**	ug/L	1	**29**			2.6	50	
Surrogates:					% Rec				
4-Bromofluorobenzene			1		88	50-150			
Trifluorotoluene			1		89	50-150			

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36503**	Analysis Method:	**8270-PNA**
QC Batch Method:	3535(PNA)	Analysis Description:	SIM Semivolatile Organic Compounds by GC/MS
Preparation Started:	11/24/2008		

Blank: B112408MPNWLG

Analyte	Blank Result	Units	DF	Detection Limit Threshold		Control Limit	Qualifiers
Naphthalene	ND	ug/L	1	0.0090		0.1	
2-Methylnaphthalene	ND	ug/L	1	0.0090		0.1	
Acenaphthylene	ND	ug/L	1	0.0090		0.1	
Acenaphthene	ND	ug/L	1	0.0090		0.1	
Fluorene	ND	ug/L	1	0.0090		0.1	
Phenanthrene	ND	ug/L	1	0.0090		0.1	
Anthracene	ND	ug/L	1	0.0090		0.1	
Fluoranthene	ND	ug/L	1	0.0090		0.1	
Pyrene	ND	ug/L	1	0.0090		0.1	
Benzo(a)anthracene	ND	ug/L	1	0.0090		0.1	
Chrysene	ND	ug/L	1	0.0090		0.1	
Benzo(b)fluoranthene	ND	ug/L	1	0.0090		0.1	
Benzo(k)fluoranthene	ND	ug/L	1	0.0090		0.1	
Benzo(a)pyrene	ND	ug/L	1	0.0090		0.1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1	0.0090		0.1	
Dibenzo(a,h)anthracene	ND	ug/L	1	0.0090		0.1	
Benzo(g,h,i)perylene	ND	ug/L	1	0.0090		0.1	
Surrogates:					% Rec		
1-Fluoronaphthalene			1		46	30-110	
Fluorene-d10			1		66	45-130	
Pyrene-d10			1		50	50-140	

LCS: S112408MPNWLG

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Naphthalene	0.78	ug/L	1	1.25	62	40-100	
2-Methylnaphthalene	0.75	ug/L	1	1.25	60	45-105	
Acenaphthylene	0.80	ug/L	1	1.25	64	50-105	
Acenaphthene	0.77	ug/L	1	1.25	62	45-110	
Fluorene	0.78	ug/L	1	1.25	62	50-110	
Phenanthrene	0.77	ug/L	1	1.25	62	50-115	
Anthracene	0.80	ug/L	1	1.25	64	55-110	
Fluoranthene	0.82	ug/L	1	1.25	66	55-115	
Pyrene	0.79	ug/L	1	1.25	63	50-130	
Benzo(a)anthracene	0.84	ug/L	1	1.25	67	55-110	
Chrysene	0.86	ug/L	1	1.25	68	55-110	
Benzo(b)fluoranthene	0.92	ug/L	1	1.25	74	45-120	
Benzo(k)fluoranthene	0.88	ug/L	1	1.25	70	45-125	
Benzo(a)pyrene	0.90	ug/L	1	1.25	72	55-110	
Indeno(1,2,3-cd)pyrene	0.92	ug/L	1	1.25	74	45-125	
Dibenzo(a,h)anthracene	0.91	ug/L	1	1.25	73	40-125	
Benzo(g,h,i)perylene	0.89	ug/L	1	1.25	71	40-125	
Surrogates:							
1-Fluoronaphthalene			1		57	30-110	
Fluorene-d10			1		77	45-130	
Pyrene-d10			1		59	50-140	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36503**	Analysis Method:	**8270-PNA**
QC Batch Method:	3535(PNA)	Analysis Description:	SIM Semivolatile Organic Compounds by GC/MS
Preparation Started:			

Matrix Spike: HODOT0806-001MS — Parent Sample: HODOT0806-001
Matrix Spike Duplicate: HODOT0806-001MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
Acenaphthene	0.44	ug/L	1	1.19	ND	37	45-110			*
	0.94			1.30		72	45-110	65	30	#
Acenaphthylene	0.46	ug/L	1	1.19	ND	33	50-105			*
	1.0			1.30		72	50-105	67	30	#
Anthracene	0.41	ug/L	1	1.19	ND	34	55-110			*
	0.92			1.30		71	55-110	69	30	#
Benzo(a)anthracene	0.45	ug/L	1	1.19	ND	38	55-110			*
	0.97			1.30		74	55-110	66	30	#
Benzo(a)pyrene	0.55	ug/L	1	1.19	ND	46	55-110			*
	1.1			1.30		82	55-110	56	30	#
Benzo(b)fluoranthene	0.63	ug/L	1	1.19	ND	53	45-120			
	1.2			1.30		95	45-120	57	30	#
Benzo(g,h,i)perylene	0.48	ug/L	1	1.19	ND	40	40-125			
	0.80			1.30		61	40-125	41	30	#
Benzo(k)fluoranthene	0.48	ug/L	1	1.19	ND	40	45-125			*
	0.95			1.30		73	45-125	59	30	#
Chrysene	0.47	ug/L	1	1.19	ND	39	55-110			*
	1.0			1.30		77	55-110	65	30	#
Dibenzo(a,h)anthracene	0.48	ug/L	1	1.19	ND	40	40-125			
	0.91			1.30		70	40-125	54	30	#
Fluoranthene	0.48	ug/L	1	1.19	ND	35	55-115			*
	0.97			1.30		70	55-115	61	30	#
Fluorene	0.45	ug/L	1	1.19	ND	38	50-110			*
	1.0			1.30		78	50-110	69	30	#
Indeno(1,2,3-cd)pyrene	0.55	ug/L	1	1.19	ND	46	45-125			
	0.97			1.30		74	45-125	46	30	#
2-Methylnaphthalene	0.40	ug/L	1	1.19	ND	33	45-105			*
	0.92			1.30		70	45-105	72	30	#
1-Methylnaphthalene	0.38	ug/L	1	1.19	ND	32	45-105			*
	0.89			1.30		68	45-105	74	30	#
Naphthalene	0.66	ug/L	1	1.19	**0.10**	46	40-100			
	1.1			1.30		73	40-100	38	30	#
Phenanthrene	0.46	ug/L	1	1.19	ND	34	50-115			*
	0.96			1.30		70	50-115	62	30	#
Pyrene	0.53	ug/L	1	1.19	ND	37	50-130			*
	1.1			1.30		75	50-130	60	30	#
Surrogates:										
Fluorene-d10			1			67	45-130			
						76	45-130			
1-Fluoronaphthalene			1			55	30-110			
						67	30-110			
Pyrene-d10			1			63	50-140			
						72	50-140			

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36539**	Analysis Method:	**NWTPH-D**
QC Batch Method:	3510C (M8015-LC)	Analysis Description:	NWTPH Diesel
Preparation Started:	11/25/2008		

Blank: B112508GSVWLT

Analyte	Blank Result	Units	DF	Detection Limit Threshold		Control Limit	Qualifiers
Diesel Range Organics	ND	mg/L	1			0.025	
Oil Range Organics	ND	mg/L	1			0.1	
Surrogates:					% Rec		
o-Terphenyl			1		105	50-150	

LCS: S112508GSVWLT

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Diesel Range Organics	0.93	mg/L	1	1.01	92	51-147	
Oil Range Organics	1.0	mg/L	1	1.03	97	50-150	
Surrogates:							
o-Terphenyl			1		115	50-150	

Matrix Spike: HODOT0806-001MS — Parent Sample: HODOT0806-001

Matrix Spike Duplicate: HODOT0806-001MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
Diesel Range Organics	2.6	mg/L	4	1.04	**1.5**	108	50-150			
	3.3			1.04		176	50-150	24	50	*
Oil Range Organics	8.0	mg/L	4	1.07	**5.9**	191	50-150			*
	8.0			1.07		194	50-150	0	50	*
Surrogates:										
o-Terphenyl			4			111	50-150			
						96	50-150			
n-Octacosane			4			102	50-150			
						97	50-150			

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36542**	Analysis Method:	**160.2**
QC Batch Method:	160.2PR	Analysis Description:	Residue, non-filterable, Gravimetric, Dried at 103 (TSS- total Suspended Solids)
Preparation Started:	11/24/2008		

Blank: B112408TSSW01

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Suspended Solids, Total	ND	mg/L	1		2	

Sample Duplicate: HCI0802-002D Parent Sample: HCI0802-002

Analyte	Duplicate Result	Units	DF	Parent Result	RPD	RPD Limit	Qualifiers
Suspended Solids, Total	**28**	mg/L	1	**27**	3.6	20	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36561**	Analysis Method:	**8270**
QC Batch Method:	3510C (625)	Analysis Description:	Semivolatile Organic Compounds by GC/MS
Preparation Started:	11/26/2008		

Blank: B112608MSVWLS

Analyte	Blank Result	Units	DF	Detection Limit Threshold		Control Limit	Qualifiers
Bis(2-ethylhexyl)phthalat	ND	ug/L	1			1	
Butylbenzylphthalate	ND	ug/L	1			1	
Di-n-butylphthalate	ND	ug/L	1			1	
Di-n-octylphthalate	ND	ug/L	1			1	
Diethylphthalate	ND	ug/L	1			1	
Dimethylphthalate	ND	ug/L	1			1	
Surrogates:					% Rec		
2-Fluorobiphenyl			1		83	50-110	
2-Fluorophenol			1		59	20-110	
Nitrobenzene-d5			1		93	40-110	
Phenol-d5			1		38	10-115	
Terphenyl-d14			1		126	50-135	
2,4,6-Tribromophenol			1		106	40-125	

LCS: S112608MSVWLS

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Bis(2-ethylhexyl)phthalat	21	ug/L	1	20.0	105	40-125	
Butylbenzylphthalate	21	ug/L	1	20.0	104	45-115	
Di-n-butylphthalate	20	ug/L	1	20.0	102	55-115	
Di-n-octylphthalate	21	ug/L	1	20.0	104	35-135	
Diethylphthalate	20	ug/L	1	20.0	102	40-120	
Dimethylphthalate	22	ug/L	1	20.0	108	25-125	
Surrogates:							
2-Fluorobiphenyl			1		89	50-110	
2-Fluorophenol			1		60	20-110	
Nitrobenzene-d5			1		98	40-110	
Phenol-d5			1		39	10-115	
Terphenyl-d14			1		110	50-135	
2,4,6-Tribromophenol			1		108	40-125	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36561**	Analysis Method:	**8270**
QC Batch Method:	3520C (ABN)	Analysis Description:	Semivolatile Organic Compounds by GC/MS
Preparation Started:			

Matrix Spike: LAQA0805-001MS — Parent Sample: LAQA0805-001

Matrix Spike Duplicate: LAQA0805-001MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
N-Nitrosodiphenylamine	15	ug/L	1	18.9	ND	82	20-160			
	16			18.9		83	20-160	1	30	
N-Nitrosodimethylamine	7.8	ug/L	1	18.9	ND	42	25-110			
	7.2			18.9		38	25-110	9	30	
Phenol	7.0	ug/L	1	18.9	ND	37	0-115			
	6.5			18.9		35	0-115	7	30	
Bis(2-Chloroethyl)ether	17	ug/L	1	18.9	ND	91	35-110			
	16			18.9		85	35-110	7	30	
2-Chlorophenol	16	ug/L	1	18.9	ND	86	35-105			
	15			18.9		81	35-105	6	30	
1,3-Dichlorobenzene	13	ug/L	1	18.9	ND	71	30-100			
	13			18.9		70	30-100	2	30	
1,4-Dichlorobenzene	13	ug/L	1	18.9	ND	71	30-100			
	13			18.9		70	30-100	2	30	
Benzyl alcohol	12	ug/L	1	18.9	ND	63	30-110			
	11			18.9		57	30-110	10	30	
1,2-Dichlorobenzene	15	ug/L	1	18.9	ND	77	35-100			
	14			18.9		74	35-100	4	30	
2-Methylphenol	14	ug/L	1	18.9	ND	75	40-110			
	14			18.9		74	40-110	2	30	
2,2'-oxybis(1-chloropropa	18	ug/L	1	18.9	ND	94	35-110			
	17			18.9		89	35-110	6	30	
4-Methylphenol	14	ug/L	1	18.9	ND	76	30-110			
	13			18.9		67	30-110	13	30	
N-Nitroso-di-n-propylami	19	ug/L	1	18.9	ND	98	35-130			
	17			18.9		91	35-130	8	30	
Hexachloroethane	12	ug/L	1	18.9	ND	63	30-95			
	12			18.9		63	30-95	0	30	
Nitrobenzene	17	ug/L	1	18.9	ND	93	45-110			
	17			18.9		91	45-110	2	30	
Isophorone	17	ug/L	1	18.9	ND	89	50-110			
	16			18.9		86	50-110	3	30	
2-Nitrophenol	19	ug/L	1	18.9	ND	99	40-115			
	18			18.9		97	40-115	2	30	
2,4-Dimethylphenol	12	ug/L	1	18.9	ND	62	30-110			
	17			18.9		92	30-110	40	30	P5
Benzoic acid	12	ug/L	1	18.9	ND	62	0-125			
	11			18.9		57	0-125	8	30	
Bis(2-chloroethoxy)metha	19	ug/L	1	18.9	ND	99	45-105			
	18			18.9		94	45-105	5	30	
2,4-Dichlorophenol	18	ug/L	1	18.9	ND	96	50-105			
	18			18.9		95	50-105	2	30	
1,2,4-Trichlorobenzene	14	ug/L	1	18.9	ND	75	35-105			
	14			18.9		75	35-105	1	30	
Naphthalene	16	ug/L	1	18.9	ND	87	40-100			
	16			18.9		85	40-100	2	30	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36561**	Analysis Method:	**8270**
QC Batch Method:	3520C (ABN)	Analysis Description:	Semivolatile Organic Compounds by GC/MS
Preparation Started:			

Matrix Spike: LAQA0805-001MS — Parent Sample: LAQA0805-001

Matrix Spike Duplicate: LAQA0805-001MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
4-Chloroaniline	ND	ug/L	1	18.9	ND	6	15-110			*
	ND			18.9		5	15-110	12	30	*
Hexachlorobutadiene	12	ug/L	1	18.9	ND	63	25-105			
	12			18.9		65	25-105	4	30	
4-Chloro-3-methylphenol	18	ug/L	1	18.9	ND	95	45-110			
	18			18.9		96	45-110	2	30	
2-Methylnaphthalene	17	ug/L	1	18.9	ND	89	45-105			
	16			18.9		87	45-105	3	30	
Hexachlorocyclopentadien	15	ug/L	1	18.9	ND	78	10-85			
	16			18.9		82	10-85	5	30	
2,4,6-Trichlorophenol	20	ug/L	1	18.9	ND	104	50-115			
	19			18.9		102	50-115	2	30	
2,4,5-Trichlorophenol	19	ug/L	1	18.9	ND	103	50-110			
	19			18.9		100	50-110	4	30	
2-Chloronaphthalene	17	ug/L	1	18.9	ND	92	50-105			
	17			18.9		91	50-105	1	30	
2-Nitroaniline	18	ug/L	1	18.9	ND	95	50-115			
	18			18.9		97	50-115	2	30	
Dimethylphthalate	19	ug/L	1	18.9	ND	101	25-125			
	19			18.9		98	25-125	3	30	
2,6-Dinitrotoluene	18	ug/L	1	18.9	ND	96	50-115			
	18			18.9		98	50-115	2	30	
Acenaphthylene	18	ug/L	1	18.9	ND	95	50-105			
	18			18.9		94	50-105	1	30	
3-Nitroaniline	11	ug/L	1	18.9	ND	56	20-125			
	9.9			18.9		52	20-125	7	30	
Acenaphthene	17	ug/L	1	18.9	ND	91	45-110			
	17			18.9		90	45-110	1	30	
2,4-Dinitrophenol	23	ug/L	1	18.9	ND	120	15-140			
	22			18.9		118	15-140	2	30	
4-Nitrophenol	7.4	ug/L	1	18.9	ND	39	0-125			
	7.2			18.9		38	0-125	4	30	
Dibenzofuran	17	ug/L	1	18.9	ND	93	55-105			
	18			18.9		94	55-105	2	30	
2,4-Dinitrotoluene	18	ug/L	1	18.9	ND	95	50-120			
	17			18.9		92	50-120	3	30	
2,3,4,6-Tetrachlorophenol	19	ug/L	1	18.9	ND	102	20-160			
	19			18.9		100	20-160	2	30	
Diethylphthalate	18	ug/L	1	18.9	ND	97	40-120			
	18			18.9		94	40-120	4	30	
Fluorene	18	ug/L	1	18.9	ND	93	50-110			
	18			18.9		93	50-110	0	30	
4-Chlorophenyl-phenylet	18	ug/L	1	18.9	ND	95	50-110			
	18			18.9		93	50-110	2	30	
4-Nitroaniline	16	ug/L	1	18.9	ND	85	35-120			
	15			18.9		80	35-120	6	30	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36561**	Analysis Method:	**8270**
QC Batch Method:	3520C (ABN)	Analysis Description:	Semivolatile Organic Compounds by GC/MS
Preparation Started:			

Matrix Spike: LAQA0805-001MS — Parent Sample: LAQA0805-001
Matrix Spike Duplicate: LAQA0805-001MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
4,6-Dinitro-2-methylphen	21	ug/L	1	18.9	ND	112	40-130			
	21			18.9		111	40-130	1	30	
4-Bromophenyl-phenyl et	19	ug/L	1	18.9	ND	102	50-115			
	19			18.9		100	50-115	2	30	
Hexachlorobenzene	19	ug/L	1	18.9	ND	101	50-110			
	19			18.9		103	50-110	2	30	
Pentachlorophenol	23	ug/L	1	18.9	ND	124	40-115			*
	24			18.9		125	40-115	1	30	*
Phenanthrene	19	ug/L	1	18.9	ND	100	50-115			
	18			18.9		97	50-115	4	30	
Anthracene	19	ug/L	1	18.9	ND	101	55-110			
	18			18.9		97	55-110	4	30	
Carbazole	19	ug/L	1	18.9	ND	100	50-115			
	18			18.9		97	50-115	2	30	
Di-n-butylphthalate	19	ug/L	1	18.9	ND	103	55-115			
	19			18.9		101	55-115	2	30	
Fluoranthene	19	ug/L	1	18.9	ND	102	55-115			
	18			18.9		96	55-115	6	30	
Benzidine	ND	ug/L	1	18.9	ND	0	0-125			
	ND			18.9		0	0-125	0	30	
Pyrene	22	ug/L	1	18.9	ND	118	50-130			
	21			18.9		111	50-130	6	30	
Butylbenzylphthalate	21	ug/L	1	18.9	ND	109	45-115			
	19			18.9		103	45-115	6	30	
3,3'-Dichlorobenzidine	11	ug/L	1	18.9	ND	61	20-110			
	12			18.9		62	20-110	2	30	
Benzo(a)anthracene	22	ug/L	1	18.9	ND	114	55-110			*
	20			18.9		108	55-110	6	30	
Bis(2-ethylhexyl)phthal	22	ug/L	1	18.9	**2.0**	105	40-125			
	22			18.9		104	40-125	1	30	
Chrysene	22	ug/L	1	18.9	ND	114	55-110			*
	20			18.9		104	55-110	9	30	
Di-n-octylphthalate	20	ug/L	1	18.9	ND	106	35-135			
	20			18.9		106	35-135	0	30	
Benzo(b)fluoranthene	20	ug/L	1	18.9	ND	104	45-120			
	19			18.9		101	45-120	3	30	
Benzo(k)fluoranthene	20	ug/L	1	18.9	ND	105	45-125			
	20			18.9		103	45-125	1	30	
Benzo(a)pyrene	20	ug/L	1	18.9	ND	108	55-110			
	19			18.9		100	55-110	7	30	
Indeno(1,2,3-cd)pyrene	19	ug/L	1	18.9	ND	100	45-125			
	19			18.9		101	45-125	1	30	
Dibenzo(a,h)anthracene	19	ug/L	1	18.9	ND	101	40-125			
	18			18.9		96	40-125	5	30	
Benzo(g,h,i)perylene	20	ug/L	1	18.9	ND	106	40-125			
	19			18.9		100	40-125	6	30	

Surrogates:

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36561**	Analysis Method:	**8270**
QC Batch Method:	3520C (ABN)	Analysis Description:	Semivolatile Organic Compounds by GC/MS
Preparation Started:			

Matrix Spike: LAQA0805-001MS — Parent Sample: LAQA0805-001
Matrix Spike Duplicate: LAQA0805-001MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
Surrogates:										
2-Fluorophenol			1			58	20-110			
						53	20-110			
Phenol-d5			1			36	10-115			
						33	10-115			
Nitrobenzene-d5			1			96	40-110			
						93	40-110			
2-Fluorobiphenyl			1			90	50-110			
						86	50-110			
2,4,6-Tribromophenol			1			110	40-125			
						108	40-125			
Terphenyl-d14			1			114	50-135			
						106	50-135			

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36565**	Analysis Method:	**8082A**
QC Batch Method:	3535(Pest/PCB)	Analysis Description:	Polychlorinated Biphenyls by Gas Chromatography
Preparation Started:	11/26/2008		

Blank: B112608GPBWLH

Analyte	Blank Result	Units	DF	Detection Limit Threshold		Control Limit	Qualifiers
Aroclor-1016	ND	ug/L	1			0.05	
Aroclor-1221	ND	ug/L	1			0.05	
Aroclor-1232	ND	ug/L	1			0.05	
Aroclor-1242	ND	ug/L	1			0.05	
Aroclor-1248	ND	ug/L	1			0.05	
Aroclor-1254	ND	ug/L	1			0.05	
Aroclor-1260	ND	ug/L	1			0.05	
Aroclor-1262	ND	ug/L	1			0.05	
Aroclor-1268	ND	ug/L	1			0.05	
Surrogates:					% Rec		
Decachlorobiphenyl			1		89	32-149	
Tetrachloro-m-xylene			1		61	10-129	

LCS: S112608GPBWLH
LCS Duplicate: S112608GPBWLH2

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	Limits	RPD	RPD Limit	Qualifiers
Aroclor-1016	0.64	ug/L	1	0.500	129	45-150			
	0.51			0.500	102	45-150	23	20	#
Aroclor-1260	0.62	ug/L	1	0.500	124	48-148			
	0.52			0.500	105	48-148	17	20	
Surrogates:									
Decachlorobiphenyl			1		129	32-149			
					101	32-149			
Tetrachloro-m-xylene			1		86	10-129			
					72	10-129			

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36722**	Analysis Method:	**8260B**
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:	12/03/2008		

Blank: B120308MVOWY1

Analyte	Blank Result	Units	DF	Detection Limit Threshold	Control Limit	Qualifiers
Acetone	ND	ug/L	1		20	
Benzene	ND	ug/L	1		1	
Bromobenzene	ND	ug/L	1		1	
Bromochloromethane	ND	ug/L	1		1	
Bromodichloromethane	ND	ug/L	1		1	
Bromoform	ND	ug/L	1		1	
Bromomethane	ND	ug/L	1		1	
2-Butanone	ND	ug/L	1		10	
n-Butylbenzene	ND	ug/L	1		1	
sec-Butylbenzene	ND	ug/L	1		1	
tert-Butylbenzene	ND	ug/L	1		1	
Carbon disulfide	ND	ug/L	1		1	
Carbon tetrachloride	ND	ug/L	1		1	
Chlorobenzene	ND	ug/L	1		1	
Chloroethane	ND	ug/L	1		1	
Chloroform	ND	ug/L	1		1	
Chloromethane	ND	ug/L	1		5	
2-Chlorotoluene	ND	ug/L	1		1	
4-Chlorotoluene	ND	ug/L	1		1	
1,2-Dibromo-3-chloropro	ND	ug/L	1		1	
Dibromochloromethane	ND	ug/L	1		1	
1,2-Dibromoethane	ND	ug/L	1		1	
Dibromomethane	ND	ug/L	1		1	
1,2-Dichlorobenzene	ND	ug/L	1		1	
1,3-Dichlorobenzene	ND	ug/L	1		1	
1,4-Dichlorobenzene	ND	ug/L	1		1	
Dichlorodifluoromethane	ND	ug/L	1		1	
1,1-Dichloroethane	ND	ug/L	1		1	
1,2-Dichloroethane	ND	ug/L	1		1	
1,1-Dichloroethene	ND	ug/L	1		1	
trans-1,2-Dichloroethene	ND	ug/L	1		1	
cis-1,2-Dichloroethene	ND	ug/L	1		1	
1,2-Dichloropropane	ND	ug/L	1		1	
1,3-Dichloropropane	ND	ug/L	1		1	
2,2-Dichloropropane	ND	ug/L	1		1	
1,1-Dichloropropene	ND	ug/L	1		1	
cis-1,3-Dichloropropene	ND	ug/L	1		1	
trans-1,3-Dichloropropene	ND	ug/L	1		1	
Ethylbenzene	ND	ug/L	1		1	
Hexachlorobutadiene	ND	ug/L	1		1	
2-Hexanone	ND	ug/L	1		10	
Isopropylbenzene	ND	ug/L	1		1	
4-Isopropyltoluene	ND	ug/L	1		1	
Methyl tert-butyl ether	ND	ug/L	1		1	
4-Methyl-2-pentanone	ND	ug/L	1		10	
Methylene chloride	ND	ug/L	1		5	
Naphthalene	ND	ug/L	1		5	
n-Propylbenzene	ND	ug/L	1		1	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36722**	Analysis Method:	**8260B**
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:	12/03/2008		

Blank: B120308MVOWY1

Analyte	Blank Result	Units	DF	Detection Limit Threshold		Control Limit	Qualifiers
Styrene	ND	ug/L	1			1	
1,1,1,2-Tetrachloroethane	ND	ug/L	1			1	
1,1,2,2-Tetrachloroethane	ND	ug/L	1			1	
Tetrachloroethene	ND	ug/L	1			1	
Toluene	ND	ug/L	1			1	
1,2,3-Trichlorobenzene	ND	ug/L	1			1	
1,2,4-Trichlorobenzene	ND	ug/L	1			1	
1,1,1-Trichloroethane	ND	ug/L	1			1	
1,1,2-Trichloroethane	ND	ug/L	1			1	
Trichloroethene	ND	ug/L	1			1	
Trichlorofluoromethane	ND	ug/L	1			1	
1,2,3-Trichloropropane	ND	ug/L	1			1	
1,2,4-Trimethylbenzene	ND	ug/L	1			1	
1,3,5-Trimethylbenzene	ND	ug/L	1			1	
Vinyl chloride	ND	ug/L	1			0.2	
m,p-Xylene	ND	ug/L	1			2	
o-Xylene	ND	ug/L	1			1	
Surrogates:					% Rec		
4-Bromofluorobenzene			1		99	75-120	
Dibromofluoromethane			1		104	85-115	
1,2-Dichloroethane-d4			1		101	70-120	
Toluene-d8			1		98	85-120	

LCS: S120308MVOWY1

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Acetone	46	ug/L	1	50.0	92	40-140	
Benzene	51	ug/L	1	50.0	103	80-120	
Bromobenzene	53	ug/L	1	50.0	107	75-125	
Bromochloromethane	49	ug/L	1	50.0	98	65-130	
Bromodichloromethane	51	ug/L	1	50.0	102	75-120	
Bromoform	49	ug/L	1	50.0	97	70-130	
Bromomethane	52	ug/L	1	50.0	103	30-145	
2-Butanone	47	ug/L	1	50.0	94	30-150	
n-Butylbenzene	55	ug/L	1	50.0	111	70-135	
sec-Butylbenzene	51	ug/L	1	50.0	102	70-125	
tert-Butylbenzene	50	ug/L	1	50.0	99	70-130	
Carbon disulfide	45	ug/L	1	50.0	91	35-160	
Carbon tetrachloride	54	ug/L	1	50.0	108	65-140	
Chlorobenzene	52	ug/L	1	50.0	105	80-120	
Chloroethane	51	ug/L	1	50.0	102	60-135	
Chloroform	50	ug/L	1	50.0	101	65-135	
Chloromethane	53	ug/L	1	50.0	105	40-125	
2-Chlorotoluene	53	ug/L	1	50.0	106	75-125	
4-Chlorotoluene	53	ug/L	1	50.0	106	75-130	
1,2-Dibromo-3-chloropro	49	ug/L	1	50.0	99	50-130	
Dibromochloromethane	52	ug/L	1	50.0	104	60-135	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36722**	Analysis Method:	**8260B**
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:	12/03/2008		

LCS: S120308MVOWY1

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane	48	ug/L	1	50.0	97	80-120	
Dibromomethane	50	ug/L	1	50.0	99	75-125	
1,2-Dichlorobenzene	52	ug/L	1	50.0	103	70-120	
1,3-Dichlorobenzene	52	ug/L	1	50.0	104	75-125	
1,4-Dichlorobenzene	50	ug/L	1	50.0	100	75-125	
Dichlorodifluoromethane	55	ug/L	1	50.0	109	30-155	
1,1-Dichloroethane	52	ug/L	1	50.0	104	70-135	
1,2-Dichloroethane	50	ug/L	1	50.0	100	70-130	
1,1-Dichloroethene	57	ug/L	1	50.0	114	70-130	
trans-1,2-Dichloroethene	52	ug/L	1	50.0	103	60-140	
cis-1,2-Dichloroethene	51	ug/L	1	50.0	102	70-125	
1,2-Dichloropropane	52	ug/L	1	50.0	105	75-125	
1,3-Dichloropropane	47	ug/L	1	50.0	95	75-125	
2,2-Dichloropropane	51	ug/L	1	50.0	103	60-135	
1,1-Dichloropropene	56	ug/L	1	50.0	113	75-130	
cis-1,3-Dichloropropene	56	ug/L	1	50.0	111	70-130	
trans-1,3-Dichloropropene	48	ug/L	1	50.0	95	55-140	
Ethylbenzene	51	ug/L	1	50.0	102	75-125	
Hexachlorobutadiene	52	ug/L	1	50.0	104	50-140	
2-Hexanone	52	ug/L	1	50.0	105	55-130	
Isopropylbenzene	55	ug/L	1	50.0	111	75-125	
4-Isopropyltoluene	57	ug/L	1	50.0	113	75-130	
Methyl tert-butyl ether	49	ug/L	1	50.0	97	65-125	
4-Methyl-2-pentanone	52	ug/L	1	50.0	105	60-135	
Methylene chloride	49	ug/L	1	50.0	98	55-140	
Naphthalene	52	ug/L	1	50.0	104	55-140	
n-Propylbenzene	54	ug/L	1	50.0	108	70-130	
Styrene	53	ug/L	1	50.0	106	65-135	
1,1,1,2-Tetrachloroethane	50	ug/L	1	50.0	101	80-130	
1,1,2,2-Tetrachloroethane	51	ug/L	1	50.0	101	65-130	
Tetrachloroethene	55	ug/L	1	50.0	110	45-150	
Toluene	50	ug/L	1	50.0	100	75-120	
1,2,3-Trichlorobenzene	51	ug/L	1	50.0	102	55-140	
1,2,4-Trichlorobenzene	51	ug/L	1	50.0	102	65-135	
1,1,1-Trichloroethane	54	ug/L	1	50.0	108	65-130	
1,1,2-Trichloroethane	48	ug/L	1	50.0	95	75-125	
Trichloroethene	54	ug/L	1	50.0	109	70-125	
Trichlorofluoromethane	53	ug/L	1	50.0	107	60-145	
1,2,3-Trichloropropane	47	ug/L	1	50.0	94	75-125	
1,2,4-Trimethylbenzene	53	ug/L	1	50.0	107	75-130	
1,3,5-Trimethylbenzene	55	ug/L	1	50.0	111	75-130	
Vinyl chloride	53	ug/L	1	50.0	106	50-145	
m,p-Xylene	100	ug/L	1	100	101	75-130	
o-Xylene	50	ug/L	1	50.0	100	80-120	
Surrogates:							
4-Bromofluorobenzene			1		105	75-120	
Dibromofluoromethane			1		99	85-115	
1,2-Dichloroethane-d4			1		100	70-120	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36722**	Analysis Method:	**8260B**
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:	12/03/2008		

LCS: S120308MVOWY1

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Surrogates:							
Toluene-d8			1		99	85-120	

Matrix Spike: LAQA0805-001MS Parent Sample: LAQA0805-001

Matrix Spike Duplicate: LAQA0805-001MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
Acetone	44	ug/L	1	50.0	ND	86	40-140			
	45			50.0		86	40-140	0	30	
Benzene	51	ug/L	1	50.0	ND	103	80-120			
	49			50.0		99	80-120	4	30	
Bromobenzene	52	ug/L	1	50.0	ND	105	75-125			
	51			50.0		102	75-125	2	30	
Bromochloromethane	49	ug/L	1	50.0	ND	98	65-130			
	48			50.0		96	65-130	2	30	
Bromodichloromethane	50	ug/L	1	50.0	ND	100	75-120			
	48			50.0		96	75-120	4	30	
Bromoform	45	ug/L	1	50.0	ND	90	70-130			
	45			50.0		89	70-130	1	30	
Bromomethane	51	ug/L	1	50.0	ND	101	30-145			
	50			50.0		99	30-145	2	30	
2-Butanone	44	ug/L	1	50.0	ND	88	30-150			
	41			50.0		83	30-150	6	30	
n-Butylbenzene	54	ug/L	1	50.0	ND	108	70-135			
	53			50.0		106	70-135	2	30	
sec-Butylbenzene	51	ug/L	1	50.0	ND	102	70-125			
	50			50.0		99	70-125	3	30	
tert-Butylbenzene	51	ug/L	1	50.0	ND	102	70-130			
	49			50.0		99	70-130	3	30	
Carbon disulfide	46	ug/L	1	50.0	ND	92	35-160			
	45			50.0		90	35-160	2	30	
Carbon tetrachloride	53	ug/L	1	50.0	ND	105	65-140			
	51			50.0		102	65-140	4	30	
Chlorobenzene	52	ug/L	1	50.0	ND	104	80-120			
	50			50.0		101	80-120	3	30	
Chloroethane	51	ug/L	1	50.0	ND	102	60-135			
	51			50.0		101	60-135	0	30	
Chloroform	49	ug/L	1	50.0	ND	99	65-135			
	49			50.0		97	65-135	2	30	
Chloromethane	51	ug/L	1	50.0	ND	102	40-125			
	50			50.0		100	40-125	2	30	
2-Chlorotoluene	52	ug/L	1	50.0	ND	105	75-125			
	51			50.0		103	75-125	2	30	
4-Chlorotoluene	52	ug/L	1	50.0	ND	103	75-130			
	51			50.0		101	75-130	2	30	
1,2-Dibromo-3-chloropro	48	ug/L	1	50.0	ND	96	50-130			
	49			50.0		98	50-130	2	30	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36722**	Analysis Method:	**8260B**
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:			

Matrix Spike: LAQA0805-001MS Parent Sample: LAQA0805-001
Matrix Spike Duplicate: LAQA0805-001MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
Chlorodibromomethane	49	ug/L	1	50.0	ND	98	60-135			
	48			50.0		96	60-135	2	30	
1,2-Dibromoethane	47	ug/L	1	50.0	ND	94	80-120			
	46			50.0		92	80-120	2	30	
Dibromomethane	49	ug/L	1	50.0	ND	99	75-125			
	47			50.0		95	75-125	4	30	
1,2-Dichlorobenzene	51	ug/L	1	50.0	ND	101	70-120			
	50			50.0		99	70-120	2	30	
1,3-Dichlorobenzene	51	ug/L	1	50.0	ND	102	75-125			
	50			50.0		101	75-125	1	30	
1,4-Dichlorobenzene	49	ug/L	1	50.0	ND	98	75-125			
	48			50.0		96	75-125	2	30	
Dichlorodifluoromethane	51	ug/L	1	50.0	ND	102	30-155			
	48			50.0		96	30-155	5	30	
1,1-Dichloroethane	52	ug/L	1	50.0	ND	105	70-135			
	51			50.0		101	70-135	4	30	
1,2-Dichloroethane	47	ug/L	1	50.0	ND	95	70-130			
	46			50.0		92	70-130	3	30	
1,1-Dichloroethene	57	ug/L	1	50.0	ND	115	70-130			
	56			50.0		112	70-130	3	30	
trans-1,2-Dichloroethene	51	ug/L	1	50.0	ND	102	60-140			
	50			50.0		101	60-140	2	30	
cis-1,2-Dichloroethene	51	ug/L	1	50.0	ND	102	70-125			
	50			50.0		99	70-125	3	30	
1,2-Dichloropropane	51	ug/L	1	50.0	ND	102	75-125			
	51			50.0		101	75-125	1	30	
1,3-Dichloropropane	46	ug/L	1	50.0	ND	91	75-125			
	44			50.0		88	75-125	4	30	
2,2-Dichloropropane	48	ug/L	1	50.0	ND	96	70-135			
	46			50.0		92	70-135	4	30	
1,1-Dichloropropene	57	ug/L	1	50.0	ND	113	75-130			
	54			50.0		109	75-130	4	30	
cis-1,3-Dichloropropene	52	ug/L	1	50.0	ND	105	70-130			
	51			50.0		102	70-130	3	30	
trans-1,3-Dichloropropene	45	ug/L	1	50.0	ND	89	55-140			
	43			50.0		87	55-140	3	30	
Ethylbenzene	50	ug/L	1	50.0	ND	100	75-125			
	48			50.0		97	75-125	4	30	
Hexachlorobutadiene	49	ug/L	1	50.0	ND	99	50-140			
	48			50.0		97	50-140	2	30	
2-Hexanone	44	ug/L	1	50.0	ND	88	55-130			
	45			50.0		90	55-130	2	30	
Isopropylbenzene	55	ug/L	1	50.0	ND	111	75-125			
	54			50.0		108	75-125	2	30	
4-Isopropyltoluene	56	ug/L	1	50.0	ND	112	75-130			
	55			50.0		110	75-130	2	30	

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Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36722**	Analysis Method:	**8260B**
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:			

Matrix Spike: LAQA0805-001MS — Parent Sample: LAQA0805-001

Matrix Spike Duplicate: LAQA0805-001MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
Methyl tert-butyl ether	46	ug/L	1	50.0	ND	93	65-125			
	47			50.0		94	65-125	2	30	
4-Methyl-2-pentanone	47	ug/L	1	50.0	ND	94	60-135			
	47			50.0		95	60-135	0	30	
Methylene chloride	49	ug/L	1	50.0	ND	98	55-140			
	48			50.0		97	55-140	1	30	
Naphthalene	52	ug/L	1	50.0	ND	103	55-140			
	51			50.0		102	55-140	1	30	
n-Propylbenzene	54	ug/L	1	50.0	ND	109	70-130			
	54			50.0		107	70-130	1	30	
Styrene	52	ug/L	1	50.0	ND	104	65-135			
	51			50.0		102	65-135	2	30	
1,1,1,2-Tetrachloroethane	50	ug/L	1	50.0	ND	100	80-130			
	50			50.0		99	80-130	1	30	
1,1,2,2-Tetrachloroethane	53	ug/L	1	50.0	ND	105	65-130			
	51			50.0		102	65-130	3	30	
Tetrachloroethene	48	ug/L	1	50.0	ND	96	45-150			
	46			50.0		92	45-150	4	30	
Toluene	50	ug/L	1	50.0	ND	99	75-120			
	48			50.0		96	75-120	4	30	
1,2,3-Trichlorobenzene	50	ug/L	1	50.0	ND	100	55-140			
	50			50.0		100	55-140	0	30	
1,2,4-Trichlorobenzene	50	ug/L	1	50.0	ND	100	65-135			
	51			50.0		101	65-135	1	30	
1,1,1-Trichloroethane	53	ug/L	1	50.0	ND	106	65-130			
	52			50.0		103	65-130	3	30	
1,1,2-Trichloroethane	47	ug/L	1	50.0	ND	93	75-125			
	45			50.0		90	75-125	3	30	
Trichloroethene	53	ug/L	1	50.0	ND	106	70-125			
	51			50.0		101	70-125	5	30	
Trichlorofluoromethane	52	ug/L	1	50.0	ND	104	60-145			
	51			50.0		102	60-145	2	30	
1,2,3-Trichloropropane	45	ug/L	1	50.0	ND	90	75-125			
	45			50.0		90	75-125	0	30	
1,2,4-Trimethylbenzene	54	ug/L	1	50.0	ND	108	75-130			
	53			50.0		106	75-130	2	30	
1,3,5-Trimethylbenzene	55	ug/L	1	50.0	ND	110	75-130			
	54			50.0		108	75-130	2	30	
Vinyl chloride	51	ug/L	1	50.0	ND	103	50-145			
	51			50.0		101	50-145	2	30	
m,p-Xylene	99	ug/L	1	100	ND	99	75-130			
	97			100		97	75-130	2	30	
o-Xylene	51	ug/L	1	50.0	ND	101	80-120			
	49			50.0		99	80-120	3	30	
Xylenes, Total	150	ug/L	1	150	ND	100	75-130			
	150			150		98	75-130	2	30	

Surrogates:

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
Phone: (206)767-5060
Fax: (206)767-5063

Pace Analytical Services, Inc.

Quality Control Results

Project:	Brix Maritime-Joint Source Control	SDG Number:	HCI0802
Project Number:		Project Manager:	Leon Lahiere

QC Batch(es):	**Q36722**	Analysis Method:	**8260B**
QC Batch Method:	5030B-L	Analysis Description:	Purgeable Organic Compounds by GC/MS
Preparation Started:			

Matrix Spike: LAQA0805-001MS Parent Sample: LAQA0805-001
Matrix Spike Duplicate: LAQA0805-001MSD

Analyte	Matrix Spike Result	Units	DF	Spike Conc.	Parent Result	% Rec	% Rec Limits	RPD	RPD Limit	Qualifiers
Surrogates:										
4-Bromofluorobenzene			1			104	72-128			
						107	72-128			
Dibromofluoromethane			1			103	76-127			
						102	76-127			
1,2-Dichloroethane-d4			1			96	66-133			
						98	66-133			
Toluene-d8			1			100	75-130			
						102	75-130			

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
Phone: (206)767-5060
Fax: (206)767-5063

Pace Analytical Services, Inc.

Notes and Definitions

SDG No: **HCI0802**

Report Specific Notes:

ND	The analyte of interest was not detected, to the limit of detection indicated
J	The value reported is below the routine reporting limit and should be considered an estimate
#	RPD outside established control limits
(P5)	One or more results used to calculate RPD less than 5 times the Reporting Limit

Laboratory Reporting Conventions:

DF	Dilution factor
Detection Limit Threshold	The project or method defined limit that defines the lower bound for estimated results. This may be the MDL or IDL or a project-specified value.
MDL	The project or method defined limit that defines the lower bound for estimated results. This may be the MDL or IDL or a project-specified value. Detection Limit Thresholds are listed on the report only if the data has been evaluated below the Reporting Limit. Results between the Reporting Limit and the Detection Limit Threshold are reported as estimated results.
IDL	Instrument Detection Limit. IDLs are in instrument basis units. Reported results for samples are normalized appropriately using the preparation and analysis steps performed.
Reporting Limit	The minimum detection limit for reporting unqualified results under routine laboratory operating conditions. Typically this is the PQL but it may be a different concentration on a project-specific basis.
QC Batch Group	Quality Control Batch Group. The entity that links analytical results and supporting quality control results.
% Rec	Percent recovery.
Limits	The upper and lower control limits for spike recoveries.
RPD	Relative Percent Difference. The relative difference between duplicate results (matrix spike, blank spike, or sample duplicate) expressed as a percentage.
RPD Limit	The maximum RPD allowed for a set of duplicate measurements (see RPD).
Spike conc.	The measured concentration, in sample basis units, of a spiked sample.
PQL	Practical Quantitation Limit. The quantitation limit achievable by the laboratory under routine operating conditions. The PQL will be normalized for deviations from these conditions such as dilutions, dry weight adjustment, etc.
LCS	Laboratory Control Sample

PACE ANALYTICAL SERVICES, INC. - SAMPLE CONFIRMATION LOG

Mtx	Sample ID (SDG-#)	VTSR	Collected On	Client ID	160.2 Total Suspended Solids, Water	8082 PCB Aroclors Water -Low	8260-1 VOAs Water Full list	8270 SPE SIM level PNA Water (Routine)	8270 SVOAs Water Low level Phthalates	NWTPH Dx Water Low Concentration	NWTPH Gx Water
WD	HCI0802-001	11/21/2008 08:30 AM	11/20/2008 09:10 AM	OUTFALL A	IN	IN	IN	IN	IN	IN	A-
WD	HCI0802-002	11/21/2008 08:30 AM	11/20/2008 08:35 AM	OUTFALL B	IN	IN	IN	IN	IN	IN	A-

Approved By: **On:**
Notes:

Samples identified with a '*' client has requested QC for

LEGEND: -:Started , +:Completed , IN:Logged In , P:Preparation , A:Analysis , X:Cancelled, PL:Pre-logged
Matrices: Water=WD

FORM LTL-PM-8.0

LS#9648
SDG: HCI0802

Sample Custody Record

HARTCROWSER

Samples Shipped To: PACE

- ☐ 1910 Fairview Ave., E., Seattle WA 98102
- ☐ 2250 Denali St., #705, Anchorage, AK 99503
- ☐ Five Centerpointe Dr., Lake Oswego, OR 97035
- ☐ 301 E. Ocean Blvd., #1950, Long Beach CA 90802
- ☐ 120 3rd Ave S., #110, Edmonds, WA 98020
- ☐ 811 Church Hill Rd., # 236, Cherry Hill, NJ 08002

JOB 56340 Task B LAB NUMBER

PROJECT NAME Brix Maritime

HART CROWSER CONTACT Leann Lahiere

SAMPLED BY: Chris Martin

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	NW-TPH-Gx	NW-TPH-Dx	VOCs 8260B	PAHs 8270M-SIM-Low	PCBs 8082-Low	Pesticides 8081A-SIM	TCLP 1400							NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
outfall	A	Grab	11-20-08	9:10	W	X	X	X	X	X	X	X							10	
outfall	B	Grab	11-20-08	8:35	W	X	X	X	X	X	X	X							10	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	11-20-08	SIGNATURE	11/20
PRINT NAME Chris Martin	TIME	PRINT NAME Richard Davis	TIME
COMPANY HC	1500	COMPANY PCS	3:05 PM

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE		SIGNATURE	11/21/08
PRINT NAME	TIME	PRINT NAME Natalie Taylor	TIME
COMPANY		COMPANY Pace	8:30 AM

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION
CUSTODY SEALS ☐ YES ☐ NO ☐ N/A
GOOD CONDITION ☐ YES ☐ NO
TEMPERATURE
SHIPMENT METHOD ☐ HAND ☐ COURIER ☐ OVERNIGHT

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. for Other Contract Requirements

TURNAROUND TIME:
☐ 24 HOURS ☐ 1 WEEK
☐ 48 HOURS ☒ STANDARD
☐ 72 HOURS OTHER

White and Yellow Copies to Lab Pink to Project Manager Lab to Return White Copy to Hart Crowser Gold to Sample Custodian

Cooler Receipt Form
Pace Analytical Services, Inc.

SDG: HCI0802 Taken By: Client

Cooler: AAF697 Transferred: Courier

COC #:

Project: Brix Maritime-Joint Source Control (Hart Crowser, Inc.)

Date samples were received at the laboratory: **11/21/2008**

Date cooler was opened: **11/21/2008 8:30AM**

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? ..... **NO**
   if YES, record carrier name and airbill number:
2. Were custody seals unbroken and intact at the date and time of arrival? ..... **INTACT**
   Date On Custody Seal: **11/20/2008** Custody Seals Description: **1 in front**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... **YES**
4. Did you screen samples for radioactivity using the Geiger Counter? ..... **NO**
5. Were custody papers filled out properly (ink, signed, etc.)? ..... **YES**
6. Did you sign custody papers in the appropriate place? ..... **YES**
7. If required, was enough cooling material present? ..... **YES**
8. Have designated person initial here to acknowledge receipt of cooler: NAT

B. LOG-IN PHASE:

Date samples were logged-in: **11/21/2008 2:44PM**

Logged-in by Natalie Taylor (sign) Natalie Taylor 11/21/08

9. Describe type of packing in cooler:

10. Were all bottles sealed in separate plastic bags? ..... **YES**
11. Were labels in good condition? ..... **YES**
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... **YES**
13. Did all bottle labels agree with custody papers? ..... **YES**
14. Were correct containers used for the tests indicated? ..... **YES**
15. Were the correct pHs observed? ..... **YES**
16. Was a sufficient amount of sample sent for tests indicated? ..... **YES**
17. Were bubbles absent in VOA samples? ..... **YES**
18. Temperatures: **3.5, 3.8, 3.0**

DISCREPANCIES:

Date Printed: 11/21/2008 14:50

Cooler Receipt Form
Pace Analytical Services, Inc.

SDG: HCI0802 Taken By: Client

Cooler: AAD069 Transferred: Courier

COC #:

Project: Brix Maritime-Joint Source Control (Hart Crowser, Inc.)

Date samples were received at the laboratory: **11/21/2008**

Date cooler was opened: **11/21/2008 8:30AM**

A. PRELIMINARY EXAMINATION PHASE:

1. Did cooler come with a shipping slip (airbill, etc.)? ..... **NO**
   if YES, record carrier name and airbill number:
2. Were custody seals unbroken and intact at the date and time of arrival? ..... **INTACT**
   Date On Custody Seal: **11/20/2008** Custody Seals Description: **1 in front**
3. Were custody papers sealed in a plastic bag and taped inside to the lid? ..... **YES**
4. Did you screen samples for radioactivity using the Geiger Counter? ..... **NO**
5. Were custody papers filled out properly (ink, signed, etc.)? ..... **YES**
6. Did you sign custody papers in the appropriate place? ..... **YES**
7. If required, was enough cooling material present? ..... **YES**
8. Have designated person initial here to acknowledge receipt of cooler: KNG

B. LOG-IN PHASE:

KNG Date samples were logged-in: **11/21/2008 3:14PM**

Logged-in by Natalie Taylor for (sign) [signature]

9. Describe type of packing in cooler:

10. Were all bottles sealed in separate plastic bags? ..... **YES**
11. Were labels in good condition? ..... **YES**
12. Were all bottle labels complete (ID,date,time signature,preservative,etc.)? ..... **YES**
13. Did all bottle labels agree with custody papers? ..... **YES**
14. Were correct containers used for the tests indicated? ..... **YES**
15. Were the correct pHs observed? ..... **YES**
16. Was a sufficient amount of sample sent for tests indicated? ..... **YES**
17. Were bubbles absent in VOA samples? ..... **NO**
18. Temperatures: **3.7, 3.1, 3.3**

DISCREPANCIES:

Date Printed: 11/21/2008 15:22

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: HCI0802
Cooler: AAD069
Temperatures: 3.7, 3.1, 3.3
COC #:

Sample	Bottle #	Bottle Description	pH	Bubbles
HCI0802-002	0001	1000 mL boston round, amber glass	7	N/A
	0002	1000 mL boston round, amber glass	7	N/A
	0003	1000 mL boston round, amber glass	7	N/A
	0004	1000 mL boston round, amber glass	7	N/A
	0005	1000 mL boston round, amber glass, HCl	<2	N/A
	0006	1000 mL boston round, amber glass, HCl	<2	N/A
	0007	1000 mL cylinder, poly	7	N/A
	0008	40 ml OTWS, clear glass, HCl	N/C	< 1/4
	0009	40 ml OTWS, clear glass, HCl	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4+/- 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
NC	Not Checked for pH

Supplemental Sample Receipt Log
Pace Analytical Services, Inc.

SDG: HCI0802
Cooler: AAF697
Temperatures: 3.5, 3.8, 3.0
COC #:

Sample	Bottle #	Bottle Description	pH	Bubbles
HCI0802-001	0001	1000 mL boston round, amber glass	7	N/A
	0002	1000 mL boston round, amber glass	7	N/A
	0003	1000 mL boston round, amber glass	7	N/A
	0004	1000 mL boston round, amber glass	7	N/A
	0005	1000 mL boston round, amber glass, HCl	<2	N/A
	0006	1000 mL boston round, amber glass, HCl	<2	N/A
	0007	1000 mL cylinder, poly	7	N/A
	0008	40 ml OTWS, clear glass, HCl	N/C	None
	0009	40 ml OTWS, clear glass, HCl	N/C	None
	0010	40 ml OTWS, clear glass, HCl	N/C	None

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4+/- 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
NC	Not Checked for pH

May 21, 2009

Leon Lahiere
Hart Crowser
8910 SW Gemini Drive
Beaverton, OR 970087123

RE: Project: Brix-Portland
Pace Project No.: 251125

Dear Leon Lahiere:
Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Natalie Taylor

natalie.taylor@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Brix-Portland
Pace Project No.: 251125

Washington Certification IDs

Washington Certification #: C1229
Oregon Certification #: WA200007
Florida/NELAP Certification #: E87617
Alaska CS Certification #: UST-025
Alaska Drinking Water Micro Certification #: WA01230
Alaska Drinking Water VOC Certification #: WA01-09
California Certification #: 01153CA

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SAMPLE SUMMARY

Project: Brix-Portland
Pace Project No.: 251125

Lab ID	Sample ID	Matrix	Date Collected	Date Received
251125001	**Outfall A**	Water	05/04/09 16:00	05/06/09 10:30
251125002	**Outfall A**	Water	05/04/09 16:00	05/06/09 10:30
251125003	**Outfall B**	Water	05/04/09 15:25	05/06/09 10:30
251125004	**Outfall B**	Water	05/04/09 15:25	05/06/09 10:30

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SAMPLE ANALYTE COUNT

Project: Brix-Portland
Pace Project No.: 251125

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
251125001	**Outfall A**	EPA 5030B/8260	ATH	71	PASI-S
		EPA 8082	JNH	11	PASI-S
		EPA 8270	JMW	12	PASI-S
		NWTPH-Dx	JNH	4	PASI-S
		NWTPH-Gx	JTA	3	PASI-S
		SM 2540D	ALB	1	PASI-S
251125002	**Outfall A**	EPA 8270	JMW	20	PASI-S
251125003	**Outfall B**	EPA 5030B/8260	ATH	71	PASI-S
		EPA 8082	JNH	11	PASI-S
		EPA 8270	JMW	12	PASI-S
		NWTPH-Dx	JNH	4	PASI-S
		NWTPH-Gx	JTA	3	PASI-S
		SM 2540D	ALB	1	PASI-S
251125004	**Outfall B**	EPA 8270	JMW	20	PASI-S

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: Hart Crowser
Date: May 21, 2009

General Information:
2 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **NWTPH-Dx**
Description: NWTPH-Dx GCS
Client: Hart Crowser
Date: May 21, 2009

General Information:
2 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **NWTPH-Gx**
Description: NWTPH-Gx GCV
Client: Hart Crowser
Date: May 21, 2009

General Information:
2 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Hart Crowser
Date: May 21, 2009

General Information:
4 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/1044

S0: Surrogate recovery outside laboratory control limits.

- BLANK (Lab ID: 1166)
  - Nitrobenzene-d5 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: OEXT/1044

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 1166)
  - Fluoranthene

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Hart Crowser
Date: May 21, 2009

Additional Comments:

Analyte Comments:

QC Batch: OEXT/1044

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- Outfall A (Lab ID: 251125002)
  - 2-Fluorobiphenyl (S)
  - Nitrobenzene-d5 (S)
  - Terphenyl-d14 (S)
- Outfall B (Lab ID: 251125004)
  - 2-Fluorobiphenyl (S)
  - Nitrobenzene-d5 (S)
  - Terphenyl-d14 (S)

QC Batch: OEXT/1057

1n: Surrogate recovery outside control limits (not confirmed by re-analysis). Associated data may be biased low.

- Outfall A (Lab ID: 251125001)
  - Terphenyl-d14 (S)

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Hart Crowser
Date: May 21, 2009

General Information:
2 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: Hart Crowser
Date: May 21, 2009

General Information:
2 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall A **Lab ID: 251125001** Collected: 05/04/09 16:00 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.049	0.0031	1	05/11/09 16:07	05/14/09 04:43	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.049	0.049	1	05/11/09 16:07	05/14/09 04:43	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.049	0.049	1	05/11/09 16:07	05/14/09 04:43	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.049	0.049	1	05/11/09 16:07	05/14/09 04:43	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.049	0.049	1	05/11/09 16:07	05/14/09 04:43	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.049	0.049	1	05/11/09 16:07	05/14/09 04:43	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.049	0.0034	1	05/11/09 16:07	05/14/09 04:43	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/L	0.049		1	05/11/09 16:07	05/14/09 15:08	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/L	0.049		1	05/11/09 16:07	05/14/09 15:08	11100-14-4	
Tetrachloro-m-xylene (S)	68	%	10-129		1	05/11/09 16:07	05/14/09 04:43	877-09-8	
Decachlorobiphenyl (S)	86	%	32-149		1	05/11/09 16:07	05/14/09 04:43	2051-24-3	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range	ND	mg/L	0.084	0.039	1	05/13/09 12:11	05/14/09 17:55		
Motor Oil Range	ND	mg/L	0.42	0.064	1	05/13/09 12:11	05/14/09 17:55	64742-65-0	
n-Octacosane (S)	91	%	50-150		1	05/13/09 12:11	05/14/09 17:55	630-02-4	
o-Terphenyl (S)	80	%	50-150		1	05/13/09 12:11	05/14/09 17:55	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	ND	ug/L	50.0	13.4	1		05/14/09 17:49		
a,a,a-Trifluorotoluene (S)	86	%	62-129		1		05/14/09 17:49	98-08-8	
4-Bromofluorobenzene (S)	94	%	61-121		1		05/14/09 17:49	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Butylbenzylphthalate	ND	ug/L	1.9	0.34	1	05/11/09 16:27	05/15/09 13:29	85-68-7	
Diethylphthalate	ND	ug/L	1.9	0.43	1	05/11/09 16:27	05/15/09 13:29	84-66-2	
Dimethylphthalate	ND	ug/L	1.9	0.36	1	05/11/09 16:27	05/15/09 13:29	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.9	0.30	1	05/11/09 16:27	05/15/09 13:29	84-74-2	
Di-n-octylphthalate	ND	ug/L	1.9	0.56	1	05/11/09 16:27	05/15/09 13:29	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.9	0.42	1	05/11/09 16:27	05/15/09 13:29	117-81-7	
Nitrobenzene-d5 (S)	53	%	50-110		1	05/11/09 16:27	05/15/09 13:29	4165-60-0	
2-Fluorobiphenyl (S)	45	%	40-110		1	05/11/09 16:27	05/15/09 13:29	321-60-8	
Terphenyl-d14 (S)	48	%	50-135		1	05/11/09 16:27	05/15/09 13:29	1718-51-0	1n
Phenol-d6 (S)	17	%	10-115		1	05/11/09 16:27	05/15/09 13:29	13127-88-3	
2-Fluorophenol (S)	27	%	20-110		1	05/11/09 16:27	05/15/09 13:29	367-12-4	
2,4,6-Tribromophenol (S)	47	%	40-125		1	05/11/09 16:27	05/15/09 13:29	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**9.4**	ug/L	5.0	0.75	1		05/08/09 23:44	67-64-1	
Benzene	ND	ug/L	1.0	0.12	1		05/08/09 23:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.16	1		05/08/09 23:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		05/08/09 23:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.11	1		05/08/09 23:44	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/08/09 23:44	75-25-2	
Bromomethane	ND	ug/L	1.0	0.072	1		05/08/09 23:44	74-83-9	

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall A **Lab ID: 251125001** Collected: 05/04/09 16:00 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
2-Butanone (MEK)	ND	ug/L	5.0	0.52	1		05/08/09 23:44	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		05/08/09 23:44	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.10	1		05/08/09 23:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.11	1		05/08/09 23:44	98-06-6	
Carbon disulfide	ND	ug/L	1.0	0.16	1		05/08/09 23:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/08/09 23:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.12	1		05/08/09 23:44	108-90-7	
Chloroethane	ND	ug/L	1.0	0.27	1		05/08/09 23:44	75-00-3	
Chloroform	ND	ug/L	1.0	0.15	1		05/08/09 23:44	67-66-3	
Chloromethane	ND	ug/L	1.0	0.20	1		05/08/09 23:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.098	1		05/08/09 23:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.13	1		05/08/09 23:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.38	1		05/08/09 23:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.12	1		05/08/09 23:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/08/09 23:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		05/08/09 23:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.25	1		05/08/09 23:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.16	1		05/08/09 23:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.20	1		05/08/09 23:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.19	1		05/08/09 23:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.23	1		05/08/09 23:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.074	1		05/08/09 23:44	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.50	1		05/08/09 23:44	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.12	1		05/08/09 23:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.32	1		05/08/09 23:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.22	1		05/08/09 23:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		05/08/09 23:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.22	1		05/08/09 23:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/08/09 23:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.094	1		05/08/09 23:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.086	1		05/08/09 23:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.16	1		05/08/09 23:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.20	1		05/08/09 23:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.27	1		05/08/09 23:44	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		05/08/09 23:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.11	1		05/08/09 23:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.074	1		05/08/09 23:44	99-87-6	
Methylene chloride	ND	ug/L	1.0	1.0	1		05/08/09 23:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.32	1		05/08/09 23:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.16	1		05/08/09 23:44	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.10	1		05/08/09 23:44	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.16	1		05/08/09 23:44	103-65-1	
Styrene	ND	ug/L	1.0	0.074	1		05/08/09 23:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		05/08/09 23:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/08/09 23:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		05/08/09 23:44	127-18-4	

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall A **Lab ID: 251125001** Collected: 05/04/09 16:00 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Toluene	**1.1**	ug/L	1.0	0.21	1		05/08/09 23:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.11	1		05/08/09 23:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.15	1		05/08/09 23:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.20	1		05/08/09 23:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.19	1		05/08/09 23:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		05/08/09 23:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.24	1		05/08/09 23:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.37	1		05/08/09 23:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.086	1		05/08/09 23:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.16	1		05/08/09 23:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.27	1		05/08/09 23:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.15	1		05/08/09 23:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.27	1		05/08/09 23:44	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.15	1		05/08/09 23:44	95-47-6	
4-Bromofluorobenzene (S)	107	%	82-116		1		05/08/09 23:44	460-00-4	
Dibromofluoromethane (S)	108	%	86-115		1		05/08/09 23:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	77-121		1		05/08/09 23:44	17060-07-0	
Toluene-d8 (S)	115	%	85-117		1		05/08/09 23:44	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**12.0**	mg/L	2.0	2.0	1		05/11/09 12:00		

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall A **Lab ID: 251125002** Collected: 05/04/09 16:00 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	0.0096	0.00091	1	05/08/09 15:57	05/14/09 20:38	83-32-9	
Acenaphthylene	ND	ug/L	0.0096	0.00082	1	05/08/09 15:57	05/14/09 20:38	208-96-8	
Anthracene	ND	ug/L	0.0096	0.00091	1	05/08/09 15:57	05/14/09 20:38	120-12-7	
Benzo(a)anthracene	**0.027**	ug/L	0.0096	0.0039	1	05/08/09 15:57	05/14/09 20:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.0096	0.0024	1	05/08/09 15:57	05/14/09 20:38	50-32-8	
Benzo(b)fluoranthene	**0.047**	ug/L	0.0096	0.0024	1	05/08/09 15:57	05/14/09 20:38	205-99-2	
Benzo(g,h,i)perylene	**0.10**	ug/L	0.0096	0.0040	1	05/08/09 15:57	05/14/09 20:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.0096	0.0031	1	05/08/09 15:57	05/14/09 20:38	207-08-9	
Chrysene	**0.038**	ug/L	0.0096	0.0043	1	05/08/09 15:57	05/14/09 20:38	218-01-9	
Dibenz(a,h)anthracene	**0.14**	ug/L	0.0096	0.0038	1	05/08/09 15:57	05/14/09 20:38	53-70-3	
Fluoranthene	**0.096**	ug/L	0.0096	0.0017	1	05/08/09 15:57	05/14/09 20:38	206-44-0	B
Fluorene	**0.13**	ug/L	0.0096	0.0012	1	05/08/09 15:57	05/14/09 20:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.099**	ug/L	0.0096	0.0058	1	05/08/09 15:57	05/14/09 20:38	193-39-5	
2-Methylnaphthalene	**0.013**	ug/L	0.0096	0.0019	1	05/08/09 15:57	05/14/09 20:38	91-57-6	B
Naphthalene	ND	ug/L	0.0096	0.0047	1	05/08/09 15:57	05/14/09 20:38	91-20-3	
Phenanthrene	**0.053**	ug/L	0.0096	0.0023	1	05/08/09 15:57	05/14/09 20:38	85-01-8	
Pyrene	**0.039**	ug/L	0.0096	0.0014	1	05/08/09 15:57	05/14/09 20:38	129-00-0	
Nitrobenzene-d5 (S)	96	%	50-110		1	05/08/09 15:57	05/14/09 20:38	4165-60-0	E
2-Fluorobiphenyl (S)	97	%	40-110		1	05/08/09 15:57	05/14/09 20:38	321-60-8	E
Terphenyl-d14 (S)	96	%	50-135		1	05/08/09 15:57	05/14/09 20:38	1718-51-0	E

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall B **Lab ID: 251125003** Collected: 05/04/09 15:25 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.0048	0.0031	1	05/11/09 16:07	05/14/09 05:16	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.0048	0.048	1	05/11/09 16:07	05/14/09 05:16	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.0048	0.048	1	05/11/09 16:07	05/14/09 05:16	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.0048	0.048	1	05/11/09 16:07	05/14/09 05:16	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.0048	0.048	1	05/11/09 16:07	05/14/09 05:16	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.0048	0.048	1	05/11/09 16:07	05/14/09 05:16	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.0048	0.0034	1	05/11/09 16:07	05/14/09 05:16	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/L	0.0048		1	05/11/09 16:07	05/14/09 15:41	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/L	0.0048		1	05/11/09 16:07	05/14/09 15:41	11100-14-4	
Tetrachloro-m-xylene (S)	77	%	10-129		1	05/11/09 16:07	05/14/09 05:16	877-09-8	
Decachlorobiphenyl (S)	102	%	32-149		1	05/11/09 16:07	05/14/09 05:16	2051-24-3	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range	**0.15**	mg/L	0.080	0.037	1	05/13/09 12:11	05/14/09 18:15		
Motor Oil Range	ND	mg/L	0.40	0.061	1	05/13/09 12:11	05/14/09 18:15	64742-65-0	
n-Octacosane (S)	95	%	50-150		1	05/13/09 12:11	05/14/09 18:15	630-02-4	
o-Terphenyl (S)	80	%	50-150		1	05/13/09 12:11	05/14/09 18:15	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	ND	ug/L	50.0	13.4	1		05/14/09 18:21		
a,a,a-Trifluorotoluene (S)	82	%	62-129		1		05/14/09 18:21	98-08-8	
4-Bromofluorobenzene (S)	91	%	61-121		1		05/14/09 18:21	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Butylbenzylphthalate	ND	ug/L	1.9	0.34	1	05/11/09 16:27	05/15/09 14:00	85-68-7	
Diethylphthalate	ND	ug/L	1.9	0.42	1	05/11/09 16:27	05/15/09 14:00	84-66-2	
Dimethylphthalate	ND	ug/L	1.9	0.36	1	05/11/09 16:27	05/15/09 14:00	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.9	0.29	1	05/11/09 16:27	05/15/09 14:00	84-74-2	
Di-n-octylphthalate	ND	ug/L	1.9	0.56	1	05/11/09 16:27	05/15/09 14:00	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.9	0.42	1	05/11/09 16:27	05/15/09 14:00	117-81-7	
Nitrobenzene-d5 (S)	52	%	50-110		1	05/11/09 16:27	05/15/09 14:00	4165-60-0	
2-Fluorobiphenyl (S)	47	%	40-110		1	05/11/09 16:27	05/15/09 14:00	321-60-8	
Terphenyl-d14 (S)	53	%	50-135		1	05/11/09 16:27	05/15/09 14:00	1718-51-0	
Phenol-d6 (S)	15	%	10-115		1	05/11/09 16:27	05/15/09 14:00	13127-88-3	
2-Fluorophenol (S)	27	%	20-110		1	05/11/09 16:27	05/15/09 14:00	367-12-4	
2,4,6-Tribromophenol (S)	56	%	40-125		1	05/11/09 16:27	05/15/09 14:00	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**9.7**	ug/L	5.0	0.75	1		05/14/09 19:03	67-64-1	
Benzene	ND	ug/L	1.0	0.12	1		05/14/09 19:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.16	1		05/14/09 19:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		05/14/09 19:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.11	1		05/14/09 19:03	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/14/09 19:03	75-25-2	
Bromomethane	ND	ug/L	1.0	0.072	1		05/14/09 19:03	74-83-9	

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall B **Lab ID: 251125003** Collected: 05/04/09 15:25 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
2-Butanone (MEK)	ND	ug/L	5.0	0.52	1		05/14/09 19:03	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		05/14/09 19:03	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.10	1		05/14/09 19:03	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.11	1		05/14/09 19:03	98-06-6	
Carbon disulfide	ND	ug/L	1.0	0.16	1		05/14/09 19:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/14/09 19:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.12	1		05/14/09 19:03	108-90-7	
Chloroethane	ND	ug/L	1.0	0.27	1		05/14/09 19:03	75-00-3	
Chloroform	ND	ug/L	1.0	0.15	1		05/14/09 19:03	67-66-3	
Chloromethane	ND	ug/L	1.0	0.20	1		05/14/09 19:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.098	1		05/14/09 19:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.13	1		05/14/09 19:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.38	1		05/14/09 19:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.12	1		05/14/09 19:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/14/09 19:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		05/14/09 19:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.25	1		05/14/09 19:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.16	1		05/14/09 19:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.20	1		05/14/09 19:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.19	1		05/14/09 19:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.23	1		05/14/09 19:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.074	1		05/14/09 19:03	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.50	1		05/14/09 19:03	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.12	1		05/14/09 19:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.32	1		05/14/09 19:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.22	1		05/14/09 19:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		05/14/09 19:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.22	1		05/14/09 19:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/14/09 19:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.094	1		05/14/09 19:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.086	1		05/14/09 19:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.16	1		05/14/09 19:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.20	1		05/14/09 19:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.27	1		05/14/09 19:03	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		05/14/09 19:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.11	1		05/14/09 19:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.074	1		05/14/09 19:03	99-87-6	
Methylene chloride	ND	ug/L	1.0	1.0	1		05/14/09 19:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.32	1		05/14/09 19:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.16	1		05/14/09 19:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.10	1		05/14/09 19:03	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.16	1		05/14/09 19:03	103-65-1	
Styrene	ND	ug/L	1.0	0.074	1		05/14/09 19:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		05/14/09 19:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/14/09 19:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		05/14/09 19:03	127-18-4	

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall B **Lab ID: 251125003** Collected: 05/04/09 15:25 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Toluene	ND	ug/L	1.0	0.21	1		05/14/09 19:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.11	1		05/14/09 19:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.15	1		05/14/09 19:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.20	1		05/14/09 19:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.19	1		05/14/09 19:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		05/14/09 19:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.24	1		05/14/09 19:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.37	1		05/14/09 19:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.086	1		05/14/09 19:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.16	1		05/14/09 19:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.27	1		05/14/09 19:03	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.15	1		05/14/09 19:03	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.27	1		05/14/09 19:03	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.15	1		05/14/09 19:03	95-47-6	
4-Bromofluorobenzene (S)	104	%	82-116		1		05/14/09 19:03	460-00-4	
Dibromofluoromethane (S)	106	%	86-115		1		05/14/09 19:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	77-121		1		05/14/09 19:03	17060-07-0	
Toluene-d8 (S)	107	%	85-117		1		05/14/09 19:03	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**15.0**	mg/L	2.0	2.0	1		05/11/09 12:00		

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall B **Lab ID: 251125004** Collected: 05/04/09 15:25 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	**0.024**	ug/L	0.0095	0.00090	1	05/08/09 15:57	05/14/09 21:00	83-32-9	
Acenaphthylene	ND	ug/L	0.0095	0.00081	1	05/08/09 15:57	05/14/09 21:00	208-96-8	
Anthracene	**0.012**	ug/L	0.0095	0.00090	1	05/08/09 15:57	05/14/09 21:00	120-12-7	
Benzo(a)anthracene	**0.16**	ug/L	0.0095	0.0039	1	05/08/09 15:57	05/14/09 21:00	56-55-3	
Benzo(a)pyrene	**0.27**	ug/L	0.0095	0.0023	1	05/08/09 15:57	05/14/09 21:00	50-32-8	
Benzo(b)fluoranthene	**0.34**	ug/L	0.0095	0.0024	1	05/08/09 15:57	05/14/09 21:00	205-99-2	
Benzo(g,h,i)perylene	**0.29**	ug/L	0.0095	0.0040	1	05/08/09 15:57	05/14/09 21:00	191-24-2	
Benzo(k)fluoranthene	**0.18**	ug/L	0.0095	0.0030	1	05/08/09 15:57	05/14/09 21:00	207-08-9	
Chrysene	**0.24**	ug/L	0.0095	0.0043	1	05/08/09 15:57	05/14/09 21:00	218-01-9	
Dibenz(a,h)anthracene	**0.19**	ug/L	0.0095	0.0038	1	05/08/09 15:57	05/14/09 21:00	53-70-3	
Fluoranthene	**0.50**	ug/L	0.0095	0.0017	1	05/08/09 15:57	05/14/09 21:00	206-44-0	B
Fluorene	**0.15**	ug/L	0.0095	0.0012	1	05/08/09 15:57	05/14/09 21:00	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.30**	ug/L	0.0095	0.0058	1	05/08/09 15:57	05/14/09 21:00	193-39-5	
2-Methylnaphthalene	**0.023**	ug/L	0.0095	0.0019	1	05/08/09 15:57	05/14/09 21:00	91-57-6	B
Naphthalene	ND	ug/L	0.0095	0.0047	1	05/08/09 15:57	05/14/09 21:00	91-20-3	
Phenanthrene	**0.22**	ug/L	0.0095	0.0023	1	05/08/09 15:57	05/14/09 21:00	85-01-8	
Pyrene	**0.33**	ug/L	0.0095	0.0014	1	05/08/09 15:57	05/14/09 21:00	129-00-0	
Nitrobenzene-d5 (S)	89	%	50-110		1	05/08/09 15:57	05/14/09 21:00	4165-60-0	E
2-Fluorobiphenyl (S)	86	%	40-110		1	05/08/09 15:57	05/14/09 21:00	321-60-8	E
Terphenyl-d14 (S)	90	%	50-135		1	05/08/09 15:57	05/14/09 21:00	1718-51-0	E

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: OEXT/1044 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 251125002, 251125004

METHOD BLANK: 1166 | Matrix: Water
Associated Lab Samples: 251125002, 251125004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Methylnaphthalene	ug/L	0.015	0.010	05/14/09 15:46	
Acenaphthene	ug/L	ND	0.010	05/14/09 15:46	
Acenaphthylene	ug/L	ND	0.010	05/14/09 15:46	
Anthracene	ug/L	ND	0.010	05/14/09 15:46	
Benzo(a)anthracene	ug/L	ND	0.010	05/14/09 15:46	
Benzo(a)pyrene	ug/L	ND	0.010	05/14/09 15:46	
Benzo(b)fluoranthene	ug/L	ND	0.010	05/14/09 15:46	
Benzo(g,h,i)perylene	ug/L	ND	0.010	05/14/09 15:46	
Benzo(k)fluoranthene	ug/L	ND	0.010	05/14/09 15:46	
Chrysene	ug/L	ND	0.010	05/14/09 15:46	
Dibenz(a,h)anthracene	ug/L	ND	0.010	05/14/09 15:46	
Fluoranthene	ug/L	0.024	0.010	05/14/09 15:46	B
Fluorene	ug/L	ND	0.010	05/14/09 15:46	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.010	05/14/09 15:46	
Naphthalene	ug/L	ND	0.010	05/14/09 15:46	
Phenanthrene	ug/L	ND	0.010	05/14/09 15:46	
Pyrene	ug/L	ND	0.010	05/14/09 15:46	
2-Fluorobiphenyl (S)	%	109	40-110	05/14/09 21:23	
Nitrobenzene-d5 (S)	%	121	50-110	05/14/09 21:23	S0
Terphenyl-d14 (S)	%	117	50-135	05/14/09 21:23	

LABORATORY CONTROL SAMPLE & LCSD: 1167 1168

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Methylnaphthalene	ug/L	1.2	0.85	0.84	68	67	20-98		30	
Acenaphthene	ug/L	1.2	0.97	1.0	77	81	42-91		30	
Acenaphthylene	ug/L	1.2	0.89	0.84	71	68	29-94		30	
Anthracene	ug/L	1.2	0.95	0.90	76	72	42-103		30	
Benzo(a)anthracene	ug/L	1.2	1.1	1.1	85	84	44-107		30	
Benzo(a)pyrene	ug/L	1.2	0.92	0.89	73	71	27-106		30	
Benzo(b)fluoranthene	ug/L	1.2	1.1	1.1	91	92	51-112		30	
Benzo(g,h,i)perylene	ug/L	1.2	0.90	0.86	72	69	28-115		30	
Benzo(k)fluoranthene	ug/L	1.2	0.92	0.88	73	70	50-110		30	
Chrysene	ug/L	1.2	0.93	0.91	74	73	47-110		30	
Dibenz(a,h)anthracene	ug/L	1.2	0.92	0.88	74	71	26-118		30	
Fluoranthene	ug/L	1.2	1.0	1.0	82	80	51-112		30	
Fluorene	ug/L	1.2	1.0	1.1	82	86	54-94		30	
Indeno(1,2,3-cd)pyrene	ug/L	1.2	0.94	0.87	75	70	28-107		30	
Naphthalene	ug/L	1.2	0.81	0.79	65	63	20-99		30	
Phenanthrene	ug/L	1.2	0.96	0.91	76	73	48-109		30	
Pyrene	ug/L	1.2	0.88	0.86	71	69	41-112		30	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

LABORATORY CONTROL SAMPLE & LCSD: 1167 1168

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Fluorobiphenyl (S)	%				82	75	40-110			
Nitrobenzene-d5 (S)	%				89	89	50-110			
Terphenyl-d14 (S)	%				95	95	50-135			

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: OEXT/1057 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 251125001, 251125003

METHOD BLANK: 1363 | Matrix: Water
Associated Lab Samples: 251125001, 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	ND	2.0	05/15/09 11:58	
Butylbenzylphthalate	ug/L	ND	2.0	05/15/09 11:58	
Di-n-butylphthalate	ug/L	ND	2.0	05/15/09 11:58	
Di-n-octylphthalate	ug/L	ND	2.0	05/15/09 11:58	
Diethylphthalate	ug/L	ND	2.0	05/15/09 11:58	
Dimethylphthalate	ug/L	ND	2.0	05/15/09 11:58	
2,4,6-Tribromophenol (S)	%	52	40-125	05/15/09 11:58	
2-Fluorobiphenyl (S)	%	46	40-110	05/15/09 11:58	
2-Fluorophenol (S)	%	33	20-110	05/15/09 11:58	
Nitrobenzene-d5 (S)	%	58	50-110	05/15/09 11:58	
Phenol-d6 (S)	%	19	10-115	05/15/09 11:58	
Terphenyl-d14 (S)	%	54	50-135	05/15/09 11:58	

LABORATORY CONTROL SAMPLE & LCSD: 1364 1365

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	20	13.0	13.0	65	65	47-146	0	30	
Butylbenzylphthalate	ug/L	20	11.3	12.0	57	60	44-108	5	30	
Di-n-butylphthalate	ug/L	20	13.4	13.7	67	69	53-107	2	30	
Di-n-octylphthalate	ug/L	20	11.0	11.0	55	55	54-109	0	30	
Diethylphthalate	ug/L	20	12.4	13.1	62	66	20-126	6	30	
Dimethylphthalate	ug/L	20	12.0	12.4	60	62	54-99	4	30	
2,4,6-Tribromophenol (S)	%				53	58	40-125			
2-Fluorobiphenyl (S)	%				50	53	40-110			
2-Fluorophenol (S)	%				38	32	20-110			
Nitrobenzene-d5 (S)	%				65	61	50-110			
Phenol-d6 (S)	%				24	20	10-115			
Terphenyl-d14 (S)	%				52	52	50-135			

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: GCV/1030 | Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx | Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 251125001, 251125003

METHOD BLANK: 1686 | Matrix: Water
Associated Lab Samples: 251125001, 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	05/14/09 17:17	
4-Bromofluorobenzene (S)	%	101	50-150	05/14/09 17:17	
a,a,a-Trifluorotoluene (S)	%	95	50-150	05/14/09 17:17	

LABORATORY CONTROL SAMPLE: 1687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	250	356	142	50-163	
4-Bromofluorobenzene (S)	%			107	50-150	
a,a,a-Trifluorotoluene (S)	%			98	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1688 2017

Parameter	Units	251130005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	ug/L	ND	250	250	375	400	150	160	50-163	6	30	
4-Bromofluorobenzene (S)	%						99	97	50-150			
a,a,a-Trifluorotoluene (S)	%						92	93	50-150			

SAMPLE DUPLICATE: 1690

Parameter	Units	251130005 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		30	
4-Bromofluorobenzene (S)	%	99	94	5		
a,a,a-Trifluorotoluene (S)	%	91	88	3		

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: MSV/1049
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 251125003

METHOD BLANK: 1748
Matrix: Water
Associated Lab Samples: 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,1-Dichloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,1-Dichloroethene	ug/L	ND	1.0	05/14/09 17:06	
1,1-Dichloropropene	ug/L	ND	1.0	05/14/09 17:06	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/14/09 17:06	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/14/09 17:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	05/14/09 17:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/14/09 17:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
1,2-Dichloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	05/14/09 17:06	
1,2-Dichloropropane	ug/L	ND	1.0	05/14/09 17:06	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/14/09 17:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
1,3-Dichloropropane	ug/L	ND	1.0	05/14/09 17:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
2,2-Dichloropropane	ug/L	ND	1.0	05/14/09 17:06	
2-Butanone (MEK)	ug/L	ND	5.0	05/14/09 17:06	
2-Chlorotoluene	ug/L	ND	1.0	05/14/09 17:06	
2-Hexanone	ug/L	ND	5.0	05/14/09 17:06	
4-Chlorotoluene	ug/L	ND	1.0	05/14/09 17:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/14/09 17:06	
Acetone	ug/L	ND	5.0	05/14/09 17:06	
Benzene	ug/L	ND	1.0	05/14/09 17:06	
Bromobenzene	ug/L	ND	1.0	05/14/09 17:06	
Bromochloromethane	ug/L	ND	1.0	05/14/09 17:06	
Bromodichloromethane	ug/L	ND	1.0	05/14/09 17:06	
Bromoform	ug/L	ND	1.0	05/14/09 17:06	
Bromomethane	ug/L	ND	1.0	05/14/09 17:06	
Carbon disulfide	ug/L	ND	1.0	05/14/09 17:06	
Carbon tetrachloride	ug/L	ND	1.0	05/14/09 17:06	
Chlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
Chloroethane	ug/L	ND	1.0	05/14/09 17:06	
Chloroform	ug/L	ND	1.0	05/14/09 17:06	
Chloromethane	ug/L	ND	1.0	05/14/09 17:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/14/09 17:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/14/09 17:06	
Dibromochloromethane	ug/L	ND	1.0	05/14/09 17:06	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

METHOD BLANK: 1748 Matrix: Water

Associated Lab Samples: 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	05/14/09 17:06	
Dichlorodifluoromethane	ug/L	ND	1.0	05/14/09 17:06	
Ethylbenzene	ug/L	ND	1.0	05/14/09 17:06	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/14/09 17:06	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/14/09 17:06	
m&p-Xylene	ug/L	ND	2.0	05/14/09 17:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/14/09 17:06	
Methylene chloride	ug/L	ND	1.0	05/14/09 17:06	
n-Butylbenzene	ug/L	ND	1.0	05/14/09 17:06	
n-Propylbenzene	ug/L	ND	1.0	05/14/09 17:06	
Naphthalene	ug/L	ND	1.0	05/14/09 17:06	
o-Xylene	ug/L	ND	1.0	05/14/09 17:06	
p-Isopropyltoluene	ug/L	ND	1.0	05/14/09 17:06	
sec-Butylbenzene	ug/L	ND	1.0	05/14/09 17:06	
Styrene	ug/L	ND	1.0	05/14/09 17:06	
tert-Butylbenzene	ug/L	ND	1.0	05/14/09 17:06	
Tetrachloroethene	ug/L	ND	1.0	05/14/09 17:06	
Toluene	ug/L	ND	1.0	05/14/09 17:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/14/09 17:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/14/09 17:06	
Trichloroethene	ug/L	ND	1.0	05/14/09 17:06	
Trichlorofluoromethane	ug/L	ND	1.0	05/14/09 17:06	
Vinyl chloride	ug/L	ND	1.0	05/14/09 17:06	
Xylene (Total)	ug/L	ND	3.0	05/14/09 17:06	
1,2-Dichloroethane-d4 (S)	%	104	77-121	05/14/09 17:06	
4-Bromofluorobenzene (S)	%	103	82-116	05/14/09 17:06	
Dibromofluoromethane (S)	%	103	86-115	05/14/09 17:06	
Toluene-d8 (S)	%	107	85-117	05/14/09 17:06	

LABORATORY CONTROL SAMPLE & LCSD: 1749 1750

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.6	8.3	96	83	73-126	15	30	
1,1,1-Trichloroethane	ug/L	10	9.8	8.1	98	81	69-135	19	30	
1,1,2,2-Tetrachloroethane	ug/L	10	10.2	8.9	102	89	69-123	13	30	
1,1,2-Trichloroethane	ug/L	10	9.6	8.4	96	84	76-114	13	30	
1,1-Dichloroethane	ug/L	10	10.1	8.5	101	85	74-124	17	30	
1,1-Dichloroethene	ug/L	10	9.6	8.1	96	81	69-139	17	30	
1,1-Dichloropropene	ug/L	10	10.9	8.8	109	88	77-134	21	30	
1,2,3-Trichlorobenzene	ug/L	10	10.6	9.3	106	93	63-136	13	30	
1,2,3-Trichloropropane	ug/L	10	10.1	8.6	101	86	66-118	15	30	
1,2,4-Trichlorobenzene	ug/L	10	10.6	9.2	106	92	68-129	14	30	
1,2,4-Trimethylbenzene	ug/L	10	10.4	9.0	104	90	72-126	15	30	
1,2-Dibromo-3-chloropropane	ug/L	10	9.7	8.6	97	86	64-124	12	30	
1,2-Dibromoethane (EDB)	ug/L	10	10.0	8.7	100	87	78-117	14	30	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

LABORATORY CONTROL SAMPLE & LCSD: 1749 1750

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/L	10	10.2	8.6	102	86	74-118	17	30	
1,2-Dichloroethane	ug/L	10	9.7	8.5	97	85	73-127	14	30	
1,2-Dichloroethene (Total)	ug/L	20	20.4	17.1	102	85	60-140	18	30	
1,2-Dichloropropane	ug/L	10	9.9	8.4	99	84	72-126	16	30	
1,3,5-Trimethylbenzene	ug/L	10	10.5	8.9	105	89	68-129	16	30	
1,3-Dichlorobenzene	ug/L	10	10.1	8.4	101	84	73-119	17	30	
1,3-Dichloropropane	ug/L	10	10.3	8.6	103	86	74-119	17	30	
1,4-Dichlorobenzene	ug/L	10	9.9	8.3	99	83	73-115	17	30	
2,2-Dichloropropane	ug/L	10	10.7	8.8	107	88	46-157	19	30	
2-Butanone (MEK)	ug/L	10	9.6	7.5	96	75	65-138	24	30	
2-Chlorotoluene	ug/L	10	10.4	8.5	104	85	68-122	19	30	
2-Hexanone	ug/L	10	8.9	8.0	89	80	60-135	11	30	
4-Chlorotoluene	ug/L	10	10.6	8.8	106	88	70-122	18	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10	8.9	7.5	89	75	70-135	17	30	
Acetone	ug/L	10	8.2	7.1	82	71	58-146	14	30	
Benzene	ug/L	10	9.9	8.4	99	84	75-124	16	30	
Bromobenzene	ug/L	10	10.2	8.4	102	84	74-116	19	30	
Bromochloromethane	ug/L	10	10	8.6	100	86	75-128	15	30	
Bromodichloromethane	ug/L	10	9.9	8.3	99	83	77-126	18	30	
Bromoform	ug/L	10	9.5	8.3	95	83	61-131	13	30	
Bromomethane	ug/L	10	9.6	7.6	96	76	58-139	23	30	
Carbon disulfide	ug/L	10	7.5	6.4	75	64	39-122	16	30	
Carbon tetrachloride	ug/L	10	10	8.3	100	83	67-136	18	30	
Chlorobenzene	ug/L	10	9.7	8.3	97	83	78-115	15	30	
Chloroethane	ug/L	10	10.1	8.2	101	82	58-137	20	30	
Chloroform	ug/L	10	9.3	7.7	93	77	75-124	19	30	
Chloromethane	ug/L	10	10.5	8.7	105	87	50-129	19	30	
cis-1,2-Dichloroethene	ug/L	10	10.7	8.9	107	89	78-126	18	30	
cis-1,3-Dichloropropene	ug/L	10	10.8	9.3	108	93	78-159	15	30	
Dibromochloromethane	ug/L	10	10.2	8.7	102	87	81-125	16	30	
Dibromomethane	ug/L	10	9.8	8.4	98	84	75-124	15	30	
Dichlorodifluoromethane	ug/L	10	12.2	10.4	122	104	30-140	16	30	
Ethylbenzene	ug/L	10	10.3	8.7	103	87	76-124	17	30	
Hexachloro-1,3-butadiene	ug/L	10	10.7	8.7	107	87	55-132	20	30	
Isopropylbenzene (Cumene)	ug/L	10	10.2	8.8	102	88	73-127	15	30	
m&p-Xylene	ug/L	20	21.6	17.9	108	90	75-124	18	30	
Methyl-tert-butyl ether	ug/L	10	10.0	8.8	100	88	72-130	14	30	
Methylene chloride	ug/L	10	9.3	8.0	93	80	69-124	15	30	
n-Butylbenzene	ug/L	10	10.4	8.7	104	87	65-131	18	30	
n-Propylbenzene	ug/L	10	10.6	8.8	106	88	69-129	19	30	
Naphthalene	ug/L	10	9.3	8.2	93	82	69-135	12	30	
o-Xylene	ug/L	10	9.6	8.3	96	83	76-121	15	30	
p-Isopropyltoluene	ug/L	10	10.6	8.9	106	89	69-133	16	30	
sec-Butylbenzene	ug/L	10	10.3	8.6	103	86	67-132	18	30	
Styrene	ug/L	10	10.3	8.8	103	88	76-121	15	30	
tert-Butylbenzene	ug/L	10	10.1	8.7	101	87	66-132	15	30	
Tetrachloroethene	ug/L	10	10.0	8.6	100	86	70-127	15	30	
Toluene	ug/L	10	9.9	8.4	99	84	75-124	16	30	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

LABORATORY CONTROL SAMPLE & LCSD: 1749 1750

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	ug/L	10	9.7	8.2	97	82	72-129	17	30	
trans-1,3-Dichloropropene	ug/L	10	9.2	8.0	92	80	69-122	15	30	
Trichloroethene	ug/L	10	9.9	8.2	99	82	78-124	19	30	
Trichlorofluoromethane	ug/L	10	9.7	8.0	97	80	60-147	19	30	
Vinyl chloride	ug/L	10	10.3	8.6	103	86	56-136	18	30	
Xylene (Total)	ug/L	30	31.2	26.2	104	87	76-123	17	30	
1,2-Dichloroethane-d4 (S)	%				102	102	77-121			
4-Bromofluorobenzene (S)	%				107	105	82-116			
Dibromofluoromethane (S)	%				104	103	86-115			
Toluene-d8 (S)	%				107	108	85-117			

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: OEXT/1068 | Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 | Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 251125001, 251125003

METHOD BLANK: 1615 | Matrix: Water
Associated Lab Samples: 251125001, 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range	mg/L	ND	0.080	05/14/09 17:17	
Motor Oil Range	mg/L	ND	0.40	05/14/09 17:17	
n-Octacosane (S)	%	92	50-150	05/14/09 17:17	
o-Terphenyl (S)	%	81	50-150	05/14/09 17:17	

LABORATORY CONTROL SAMPLE: 1616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range	mg/L	5	3.6	71	51-147	
Motor Oil Range	mg/L	5	4.5	91	20-160	
n-Octacosane (S)	%			91	50-150	
o-Terphenyl (S)	%			80	50-150	

MATRIX SPIKE SAMPLE: 1617

Parameter	Units	251130005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Diesel Range	mg/L	ND	5.2	3.9	74	50-150	
Motor Oil Range	mg/L	ND	5.2	5.2	100	20-160	
n-Octacosane (S)	%				85	50-150	
o-Terphenyl (S)	%				79	50-150	

SAMPLE DUPLICATE: 1618

Parameter	Units	251130005 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range	mg/L	ND	ND		50	
Motor Oil Range	mg/L	ND	ND		50	
n-Octacosane (S)	%		91	1		
o-Terphenyl (S)	%		82	2		

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: MSV/1038
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 251125001

METHOD BLANK: 1181
Matrix: Water
Associated Lab Samples: 251125001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,1-Dichloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,1-Dichloroethene	ug/L	ND	1.0	05/08/09 14:12	
1,1-Dichloropropene	ug/L	ND	1.0	05/08/09 14:12	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/08/09 14:12	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/08/09 14:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	05/08/09 14:12	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/08/09 14:12	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
1,2-Dichloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	05/08/09 14:12	
1,2-Dichloropropane	ug/L	ND	1.0	05/08/09 14:12	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/08/09 14:12	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
1,3-Dichloropropane	ug/L	ND	1.0	05/08/09 14:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
2,2-Dichloropropane	ug/L	ND	1.0	05/08/09 14:12	
2-Butanone (MEK)	ug/L	ND	5.0	05/08/09 14:12	
2-Chlorotoluene	ug/L	ND	1.0	05/08/09 14:12	
2-Hexanone	ug/L	ND	5.0	05/08/09 14:12	
4-Chlorotoluene	ug/L	ND	1.0	05/08/09 14:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/08/09 14:12	
Acetone	ug/L	ND	5.0	05/08/09 14:12	
Benzene	ug/L	ND	1.0	05/08/09 14:12	
Bromobenzene	ug/L	ND	1.0	05/08/09 14:12	
Bromochloromethane	ug/L	ND	1.0	05/08/09 14:12	
Bromodichloromethane	ug/L	ND	1.0	05/08/09 14:12	
Bromoform	ug/L	ND	1.0	05/08/09 14:12	
Bromomethane	ug/L	ND	1.0	05/08/09 14:12	
Carbon disulfide	ug/L	ND	1.0	05/08/09 14:12	
Carbon tetrachloride	ug/L	ND	1.0	05/08/09 14:12	
Chlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
Chloroethane	ug/L	ND	1.0	05/08/09 14:12	
Chloroform	ug/L	ND	1.0	05/08/09 14:12	
Chloromethane	ug/L	ND	1.0	05/08/09 14:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/08/09 14:12	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/08/09 14:12	
Dibromochloromethane	ug/L	ND	1.0	05/08/09 14:12	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

METHOD BLANK: 1181 Matrix: Water

Associated Lab Samples: 251125001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	05/08/09 14:12	
Dichlorodifluoromethane	ug/L	ND	1.0	05/08/09 14:12	
Ethylbenzene	ug/L	ND	1.0	05/08/09 14:12	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/08/09 14:12	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/08/09 14:12	
m&p-Xylene	ug/L	ND	2.0	05/08/09 14:12	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/08/09 14:12	
Methylene chloride	ug/L	ND	1.0	05/08/09 14:12	
n-Butylbenzene	ug/L	ND	1.0	05/08/09 14:12	
n-Propylbenzene	ug/L	ND	1.0	05/08/09 14:12	
Naphthalene	ug/L	ND	1.0	05/08/09 14:12	
o-Xylene	ug/L	ND	1.0	05/08/09 14:12	
p-Isopropyltoluene	ug/L	ND	1.0	05/08/09 14:12	
sec-Butylbenzene	ug/L	ND	1.0	05/08/09 14:12	
Styrene	ug/L	ND	1.0	05/08/09 14:12	
tert-Butylbenzene	ug/L	ND	1.0	05/08/09 14:12	
Tetrachloroethene	ug/L	ND	1.0	05/08/09 14:12	
Toluene	ug/L	ND	1.0	05/08/09 14:12	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/08/09 14:12	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/08/09 14:12	
Trichloroethene	ug/L	ND	1.0	05/08/09 14:12	
Trichlorofluoromethane	ug/L	ND	1.0	05/08/09 14:12	
Vinyl chloride	ug/L	ND	1.0	05/08/09 14:12	
Xylene (Total)	ug/L	ND	3.0	05/08/09 14:12	
1,2-Dichloroethane-d4 (S)	%	114	77-121	05/08/09 14:12	
4-Bromofluorobenzene (S)	%	108	82-116	05/08/09 14:12	
Dibromofluoromethane (S)	%	113	86-115	05/08/09 14:12	
Toluene-d8 (S)	%	113	85-117	05/08/09 14:12	

LABORATORY CONTROL SAMPLE & LCSD: 1182 1183

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.3	10.3	103	103	73-126	.1	30	
1,1,1-Trichloroethane	ug/L	10	11.0	10.8	110	108	69-135	1	30	
1,1,2,2-Tetrachloroethane	ug/L	10	10.6	10.4	106	104	69-123	2	30	
1,1,2-Trichloroethane	ug/L	10	10.2	9.9	102	99	76-114	3	30	
1,1-Dichloroethane	ug/L	10	10.9	10.9	109	109	74-124	.7	30	
1,1-Dichloroethene	ug/L	10	11.9	11.5	119	115	69-139	4	30	
1,1-Dichloropropene	ug/L	10	11.0	10.8	110	108	77-134	2	30	
1,2,3-Trichlorobenzene	ug/L	10	10.1	10.1	101	101	63-136	.2	30	
1,2,3-Trichloropropane	ug/L	10	9.7	9.6	97	96	66-118	2	30	
1,2,4-Trichlorobenzene	ug/L	10	10.1	10.1	101	101	68-129	.07	30	
1,2,4-Trimethylbenzene	ug/L	10	10.1	10.2	101	102	72-126	1	30	
1,2-Dibromo-3-chloropropane	ug/L	10	9.7	10	97	100	64-124	3	30	
1,2-Dibromoethane (EDB)	ug/L	10	10.1	10.4	101	104	78-117	3	30	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

LABORATORY CONTROL SAMPLE & LCSD: 1182 1183

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/L	10	10.5	10.6	105	106	74-118	1	30	
1,2-Dichloroethane	ug/L	10	10.8	10.3	108	103	73-127	5	30	
1,2-Dichloroethene (Total)	ug/L	20	21.3	21.3	107	106	60-140	.3	30	
1,2-Dichloropropane	ug/L	10	10	9.8	100	98	72-126	2	30	
1,3,5-Trimethylbenzene	ug/L	10	10	10.3	100	103	68-129	3	30	
1,3-Dichlorobenzene	ug/L	10	10.2	10.4	102	104	73-119	2	30	
1,3-Dichloropropane	ug/L	10	10.0	10.1	100	101	74-119	.9	30	
1,4-Dichlorobenzene	ug/L	10	10.3	10.2	103	102	73-115	.7	30	
2,2-Dichloropropane	ug/L	10	9.8	9.8	98	98	46-157	.2	30	
2-Butanone (MEK)	ug/L	10	9.0	8.8	90	88	65-138	3	30	
2-Chlorotoluene	ug/L	10	9.8	10.1	98	101	68-122	3	30	
2-Hexanone	ug/L	10	8.6	8.1	86	81	60-135	5	30	
4-Chlorotoluene	ug/L	10	10.2	10.6	102	106	70-122	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10	9.2	9.0	92	90	70-135	2	30	
Acetone	ug/L	10	8.9	9.4	89	94	58-146	5	30	
Benzene	ug/L	10	10.5	10.2	105	102	75-124	3	30	
Bromobenzene	ug/L	10	10.2	10.3	102	103	74-116	2	30	
Bromochloromethane	ug/L	10	11.2	11.1	112	111	75-128	1	30	
Bromodichloromethane	ug/L	10	10.5	10.5	105	105	77-126	.5	30	
Bromoform	ug/L	10	10.1	10.0	101	100	61-131	.7	30	
Bromomethane	ug/L	10	11.9	12.1	119	121	58-139	1	30	
Carbon disulfide	ug/L	10	9.2	8.7	92	87	39-122	5	30	
Carbon tetrachloride	ug/L	10	11.3	10.9	113	109	67-136	3	30	
Chlorobenzene	ug/L	10	10.4	10.5	104	105	78-115	1	30	
Chloroethane	ug/L	10	12.3	12.0	123	120	58-137	2	30	
Chloroform	ug/L	10	10.7	10.7	107	107	75-124	.6	30	
Chloromethane	ug/L	10	10.3	10.3	103	103	50-129	.9	30	
cis-1,2-Dichloroethene	ug/L	10	10.8	10.9	108	109	78-126	.7	30	
cis-1,3-Dichloropropene	ug/L	10	10.6	10.6	106	106	78-159	.4	30	
Dibromochloromethane	ug/L	10	10.4	10.6	104	106	81-125	2	30	
Dibromomethane	ug/L	10	10.6	10.6	106	106	75-124	.2	30	
Dichlorodifluoromethane	ug/L	10	8.5	8.2	85	82	30-140	3	30	
Ethylbenzene	ug/L	10	9.8	9.9	98	99	76-124	1	30	
Hexachloro-1,3-butadiene	ug/L	10	10.5	10.5	105	105	55-132	.03	30	
Isopropylbenzene (Cumene)	ug/L	10	10.5	10.5	105	105	73-127	.5	30	
m&p-Xylene	ug/L	20	20.0	20.0	100	100	75-124	.2	30	
Methyl-tert-butyl ether	ug/L	10	7.9	7.7	79	77	72-130	3	30	
Methylene chloride	ug/L	10	10.6	10.1	106	101	69-124	5	30	
n-Butylbenzene	ug/L	10	10.2	10.2	102	102	65-131	.07	30	
n-Propylbenzene	ug/L	10	10.1	10.3	101	103	69-129	2	30	
Naphthalene	ug/L	10	9.0	8.9	90	89	69-135	1	30	
o-Xylene	ug/L	10	9.4	9.7	94	97	76-121	4	30	
p-Isopropyltoluene	ug/L	10	10.4	10.6	104	106	69-133	1	30	
sec-Butylbenzene	ug/L	10	10.4	10.6	104	106	67-132	2	30	
Styrene	ug/L	10	10.5	10.6	105	106	76-121	.8	30	
tert-Butylbenzene	ug/L	10	10.2	10.3	102	103	66-132	1	30	
Tetrachloroethene	ug/L	10	10.8	11.1	108	111	70-127	2	30	
Toluene	ug/L	10	10.6	10.8	106	108	75-124	2	30	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

LABORATORY CONTROL SAMPLE & LCSD: 1182 1183

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	ug/L	10	10.6	10.4	106	104	72-129	1	30	
trans-1,3-Dichloropropene	ug/L	10	8.9	9.0	89	90	69-122	1	30	
Trichloroethene	ug/L	10	10.5	10.4	105	104	78-124	1	30	
Trichlorofluoromethane	ug/L	10	11.5	10.9	115	109	60-147	5	30	
Vinyl chloride	ug/L	10	10.8	10.5	108	105	56-136	3	30	
Xylene (Total)	ug/L	30	29.4	29.7	98	99	76-123	1	30	
1,2-Dichloroethane-d4 (S)	%				113	108	77-121			
4-Bromofluorobenzene (S)	%				107	109	82-116			
Dibromofluoromethane (S)	%				115	113	86-115			
Toluene-d8 (S)	%				109	110	85-117			

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: OEXT/1053 | Analysis Method: EPA 8082
QC Batch Method: EPA 3510 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 251125001, 251125003

METHOD BLANK: 1339 | Matrix: Water
Associated Lab Samples: 251125001, 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1262 (Aroclor 1262)	ug/L	ND	0.050	05/14/09 14:35	
PCB-1268 (Aroclor 1268)	ug/L	ND	0.050	05/14/09 14:35	
Decachlorobiphenyl (S)	%	110	32-149	05/14/09 14:35	
Decachlorobiphenyl (S)	%	95	32-149	05/14/09 03:04	
Tetrachloro-m-xylene (S)	%	79	10-129	05/14/09 03:04	
Tetrachloro-m-xylene (S)	%	84	10-129	05/14/09 14:35	

LABORATORY CONTROL SAMPLE & LCSD: 1340 1341

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	50	54.4	49.4	109	99	78-117	10	20	
PCB-1221 (Aroclor 1221)	ug/L		ND	ND					20	
PCB-1232 (Aroclor 1232)	ug/L		ND	ND					20	
PCB-1242 (Aroclor 1242)	ug/L		ND	ND					20	
PCB-1248 (Aroclor 1248)	ug/L		ND	ND					20	
PCB-1254 (Aroclor 1254)	ug/L		ND	ND					20	
PCB-1260 (Aroclor 1260)	ug/L	50	61.6	60.7	123	121	53-155	1	20	
Decachlorobiphenyl (S)	%				89	87	32-149			
Tetrachloro-m-xylene (S)	%				69	65	10-129			

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: WET/1051 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 251125001, 251125003

METHOD BLANK: 1361 | Matrix: Water
Associated Lab Samples: 251125001, 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	2.0	05/11/09 12:00	

SAMPLE DUPLICATE: 1362

Parameter	Units	251125001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12.0	14.0	15	20	

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QUALIFIERS

Project: Brix-Portland
Pace Project No.: 251125

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S	Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

1n	Surrogate recovery outside control limits (not confirmed by re-analysis). Associated data may be biased low.
B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Brix-Portland
Pace Project No.: 251125

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
251125002	**Outfall A**	EPA 3510	OEXT/1044	EPA 8270	MSSV/1009
251125004	**Outfall B**	EPA 3510	OEXT/1044	EPA 8270	MSSV/1009
251125001	**Outfall A**	EPA 5030B/8260	MSV/1038		
251125001	**Outfall A**	EPA 3510	OEXT/1053	EPA 8082	GCSV/1034
251125003	**Outfall B**	EPA 3510	OEXT/1053	EPA 8082	GCSV/1034
251125001	**Outfall A**	SM 2540D	WET/1051		
251125003	**Outfall B**	SM 2540D	WET/1051		
251125001	**Outfall A**	EPA 3510	OEXT/1057	EPA 8270	MSSV/1010
251125003	**Outfall B**	EPA 3510	OEXT/1057	EPA 8270	MSSV/1010
251125001	**Outfall A**	EPA 3510	OEXT/1068	NWTPH-Dx	GCSV/1039
251125003	**Outfall B**	EPA 3510	OEXT/1068	NWTPH-Dx	GCSV/1039
251125001	**Outfall A**	NWTPH-Gx	GCV/1030		
251125003	**Outfall B**	NWTPH-Gx	GCV/1030		
251125003	**Outfall B**	EPA 5030B/8260	MSV/1049		

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WO# 251125

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1241388

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Hart Crowser, Inc	Report To: Leon Lahiere	Attention: Leon Lahiere
Address: 8910 SW Gemini Dr. Beaverton, OR 97008	Copy To:	Company Name: Hart Crowser, Inc.
		Address: 8910 SW Gemini, Beaverton OR
Email To: leon.lahiere@hartcrowser.com	Purchase Order No.: 15634-00/Task 08	Pace Quote Reference: Seattle-092208
Phone: 971-327-9103 Fax:	Project Name: Brix - Portland	Pace Project Manager: Lisa Domenighini
Requested Due Date/TAT: STD	Project Number: 15634-00/Task 08	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER Plt SW

Site Location STATE: OR

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	PCBs-8082-Low	PAHs-8270SIM low	Phthalates-Low	NWTPH-Dx	NWTPH-Gx	VOCs 8260	TSS 1602	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Outfall A	WT	G	5-4-09	1600	5-4-09	1615	14	12										X	X	X	X	X	X	X		
2	Outfall B	WT	G	5-4-09	1525	5-4-09	1535	15	13										X	X	X	X	X	X	X		
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	5-5-09	1030	[signature] Pace PCS	5-5-9	1045	
	Hart Crowser			[signature] Pace	5/6/09	1030	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brian Block

SIGNATURE of SAMPLER: [signature] For

DATE Signed (MM/DD/YY): 5-5-09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Instructions for completing Chain of Custody (COC)

1. **Section A and B:** Complete all Client information at top of sheet: company name, address, phone, fax, contact (the person to contact if there are questions, and who will receive the final report.), e-mail address (if available), PO#, Project Name and/or Project Number as you would like to see it appear on the report.

2. **Section C:** Invoice Information: Billing information is included in this section. This information should include the name and address of the person receiving the invoice.

3. Quote Reference should be completed if a quotation was provided by Pace Analytical. The Project Manager, and Profile No. will be completed by Pace Analytical Services.

4. **Site Location:** A separate COC must be filled out for each day of sample collection. Record the two letter postal code for the US state in which the samples were collected.

5. **Regulatory Agency:** List the program that is guiding the work to ensure proper regulations are followed.

6. **Section D:** Complete a Sample Description in the "SAMPLE ID' section as you would like it to appear on the laboratory report. The following information should also be included: the sample matrix, sample type (G (grab) or C (composite). When collecting a composite, the start time and end time should be documented in the respective boxes. The collection time for a grab (G) sample should be entered in the boxes marked 'Composite End/Grab'). Sample temp at collection (if required by state), the total number of containers, and preservative used.

7. Mark if the sample was filtered in the field by marking Y or N in 'Filtered' row by the Analysis requested.

8. Requested Analysis: List the required analysis and methods on the lines provided and place a check in the column for the samples requiring the analysis. Additional comments should be referenced in the bottom left hand corner or include attachments for extended lists of parameters.

9. The sampler should print their name in the space provided and sign their name followed by the date of the sampling event at the bottom of the COC in the spaces designated for 'SAMPLER NAME AND SIGNATURE'.

10. When relinquishing custody of the samples to a representative of the laboratory or other organization, indicate the Item Numbers of those samples being transferred; sign relinquished by, date and time, and include your affiliation.

***Important Note:**

Standard Turnaround Time is 2 Weeks/10 business days. Results will be delivered by end of business on the date due unless other arrangements have been made with your project manager.

Special Project Requirements such as Low Level Detection Limits or level of QC reported must be included on the chain of custody in the Additional Comments section.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Hart-Crowser Project # 251125

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other PCS

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other Zip lock bags

Thermometer Used Horiba-132013 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature AAF 725 4.3,5.3,5.5 AAE 955 5.8,6.2,6.1 Biological Tissue Is Frozen: Yes No

Date and Initials of person examining contents: 5/6/09 PB

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1. 1241388
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: Water				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes	☐No		Initial when completed ____ Lot # of added preservative ____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

May 21, 2009

Leon Lahiere
Hart Crowser
8910 SW Gemini Drive
Beaverton, OR 970087123

RE: Project: Brix-Portland
Pace Project No.: 251125

Dear Leon Lahiere:
Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Natalie Taylor

natalie.taylor@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Brix-Portland
Pace Project No.: 251125

Washington Certification IDs

Washington Certification #: C1229
Oregon Certification #: WA200007
Florida/NELAP Certification #: E87617
Alaska CS Certification #: UST-025
Alaska Drinking Water Micro Certification #: WA01230
Alaska Drinking Water VOC Certification #: WA01-09
California Certification #: 01153CA

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SAMPLE SUMMARY

Project: Brix-Portland
Pace Project No.: 251125

Lab ID	Sample ID	Matrix	Date Collected	Date Received
251125001	**Outfall A**	Water	05/04/09 16:00	05/06/09 10:30
251125002	**Outfall A**	Water	05/04/09 16:00	05/06/09 10:30
251125003	**Outfall B**	Water	05/04/09 15:25	05/06/09 10:30
251125004	**Outfall B**	Water	05/04/09 15:25	05/06/09 10:30

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SAMPLE ANALYTE COUNT

Project: Brix-Portland
Pace Project No.: 251125

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
251125001	**Outfall A**	EPA 5030B/8260	ATH	71	PASI-S
		EPA 8082	JNH	11	PASI-S
		EPA 8270	JMW	12	PASI-S
		NWTPH-Dx	JNH	4	PASI-S
		NWTPH-Gx	JTA	3	PASI-S
		SM 2540D	ALB	1	PASI-S
251125002	**Outfall A**	EPA 8270	JMW	20	PASI-S
251125003	**Outfall B**	EPA 5030B/8260	ATH	71	PASI-S
		EPA 8082	JNH	11	PASI-S
		EPA 8270	JMW	12	PASI-S
		NWTPH-Dx	JNH	4	PASI-S
		NWTPH-Gx	JTA	3	PASI-S
		SM 2540D	ALB	1	PASI-S
251125004	**Outfall B**	EPA 8270	JMW	20	PASI-S

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **EPA 8082**
Description: 8082 GCS PCB
Client: Hart Crowser
Date: May 21, 2009

General Information:
2 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **NWTPH-Dx**
Description: NWTPH-Dx GCS
Client: Hart Crowser
Date: May 21, 2009

General Information:
2 samples were analyzed for NWTPH-Dx. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **NWTPH-Gx**
Description: NWTPH-Gx GCV
Client: Hart Crowser
Date: May 21, 2009

General Information:
2 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Hart Crowser
Date: May 21, 2009

General Information:
4 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/1044

S0: Surrogate recovery outside laboratory control limits.

- BLANK (Lab ID: 1166)
  - Nitrobenzene-d5 (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: OEXT/1044

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 1166)
  - Fluoranthene

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: Hart Crowser
Date: May 21, 2009

Additional Comments:

Analyte Comments:

QC Batch: OEXT/1044

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- Outfall A (Lab ID: 251125002)
  - 2-Fluorobiphenyl (S)
  - Nitrobenzene-d5 (S)
  - Terphenyl-d14 (S)
- Outfall B (Lab ID: 251125004)
  - 2-Fluorobiphenyl (S)
  - Nitrobenzene-d5 (S)
  - Terphenyl-d14 (S)

QC Batch: OEXT/1057

1n: Surrogate recovery outside control limits (not confirmed by re-analysis). Associated data may be biased low.

- Outfall A (Lab ID: 251125001)
  - Terphenyl-d14 (S)

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Hart Crowser
Date: May 21, 2009

General Information:
2 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Brix-Portland
Pace Project No.: 251125

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: Hart Crowser
Date: May 21, 2009

General Information:
2 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall A **Lab ID: 251125001** Collected: 05/04/09 16:00 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.049	0.0031	1	05/11/09 16:07	05/14/09 04:43	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.049	0.049	1	05/11/09 16:07	05/14/09 04:43	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.049	0.049	1	05/11/09 16:07	05/14/09 04:43	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.049	0.049	1	05/11/09 16:07	05/14/09 04:43	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.049	0.049	1	05/11/09 16:07	05/14/09 04:43	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.049	0.049	1	05/11/09 16:07	05/14/09 04:43	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.049	0.0034	1	05/11/09 16:07	05/14/09 04:43	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/L	0.049		1	05/11/09 16:07	05/14/09 15:08	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/L	0.049		1	05/11/09 16:07	05/14/09 15:08	11100-14-4	
Tetrachloro-m-xylene (S)	68	%	10-129		1	05/11/09 16:07	05/14/09 04:43	877-09-8	
Decachlorobiphenyl (S)	86	%	32-149		1	05/11/09 16:07	05/14/09 04:43	2051-24-3	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range	ND	mg/L	0.084	0.039	1	05/13/09 12:11	05/14/09 17:55		
Motor Oil Range	ND	mg/L	0.42	0.064	1	05/13/09 12:11	05/14/09 17:55	64742-65-0	
n-Octacosane (S)	91	%	50-150		1	05/13/09 12:11	05/14/09 17:55	630-02-4	
o-Terphenyl (S)	80	%	50-150		1	05/13/09 12:11	05/14/09 17:55	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	ND	ug/L	50.0	13.4	1		05/14/09 17:49		
a,a,a-Trifluorotoluene (S)	86	%	62-129		1		05/14/09 17:49	98-08-8	
4-Bromofluorobenzene (S)	94	%	61-121		1		05/14/09 17:49	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Butylbenzylphthalate	ND	ug/L	1.9	0.34	1	05/11/09 16:27	05/15/09 13:29	85-68-7	
Diethylphthalate	ND	ug/L	1.9	0.43	1	05/11/09 16:27	05/15/09 13:29	84-66-2	
Dimethylphthalate	ND	ug/L	1.9	0.36	1	05/11/09 16:27	05/15/09 13:29	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.9	0.30	1	05/11/09 16:27	05/15/09 13:29	84-74-2	
Di-n-octylphthalate	ND	ug/L	1.9	0.56	1	05/11/09 16:27	05/15/09 13:29	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.9	0.42	1	05/11/09 16:27	05/15/09 13:29	117-81-7	
Nitrobenzene-d5 (S)	53	%	50-110		1	05/11/09 16:27	05/15/09 13:29	4165-60-0	
2-Fluorobiphenyl (S)	45	%	40-110		1	05/11/09 16:27	05/15/09 13:29	321-60-8	
Terphenyl-d14 (S)	48	%	50-135		1	05/11/09 16:27	05/15/09 13:29	1718-51-0	1n
Phenol-d6 (S)	17	%	10-115		1	05/11/09 16:27	05/15/09 13:29	13127-88-3	
2-Fluorophenol (S)	27	%	20-110		1	05/11/09 16:27	05/15/09 13:29	367-12-4	
2,4,6-Tribromophenol (S)	47	%	40-125		1	05/11/09 16:27	05/15/09 13:29	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**9.4**	ug/L	5.0	0.75	1		05/08/09 23:44	67-64-1	
Benzene	ND	ug/L	1.0	0.12	1		05/08/09 23:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.16	1		05/08/09 23:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		05/08/09 23:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.11	1		05/08/09 23:44	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/08/09 23:44	75-25-2	
Bromomethane	ND	ug/L	1.0	0.072	1		05/08/09 23:44	74-83-9	

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall A **Lab ID: 251125001** Collected: 05/04/09 16:00 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
2-Butanone (MEK)	ND	ug/L	5.0	0.52	1		05/08/09 23:44	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		05/08/09 23:44	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.10	1		05/08/09 23:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.11	1		05/08/09 23:44	98-06-6	
Carbon disulfide	ND	ug/L	1.0	0.16	1		05/08/09 23:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/08/09 23:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.12	1		05/08/09 23:44	108-90-7	
Chloroethane	ND	ug/L	1.0	0.27	1		05/08/09 23:44	75-00-3	
Chloroform	ND	ug/L	1.0	0.15	1		05/08/09 23:44	67-66-3	
Chloromethane	ND	ug/L	1.0	0.20	1		05/08/09 23:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.098	1		05/08/09 23:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.13	1		05/08/09 23:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.38	1		05/08/09 23:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.12	1		05/08/09 23:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/08/09 23:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		05/08/09 23:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.25	1		05/08/09 23:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.16	1		05/08/09 23:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.20	1		05/08/09 23:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.19	1		05/08/09 23:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.23	1		05/08/09 23:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.074	1		05/08/09 23:44	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.50	1		05/08/09 23:44	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.12	1		05/08/09 23:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.32	1		05/08/09 23:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.22	1		05/08/09 23:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		05/08/09 23:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.22	1		05/08/09 23:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/08/09 23:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.094	1		05/08/09 23:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.086	1		05/08/09 23:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.16	1		05/08/09 23:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.20	1		05/08/09 23:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.27	1		05/08/09 23:44	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		05/08/09 23:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.11	1		05/08/09 23:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.074	1		05/08/09 23:44	99-87-6	
Methylene chloride	ND	ug/L	1.0	1.0	1		05/08/09 23:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.32	1		05/08/09 23:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.16	1		05/08/09 23:44	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.10	1		05/08/09 23:44	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.16	1		05/08/09 23:44	103-65-1	
Styrene	ND	ug/L	1.0	0.074	1		05/08/09 23:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		05/08/09 23:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/08/09 23:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		05/08/09 23:44	127-18-4	

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall A **Lab ID: 251125001** Collected: 05/04/09 16:00 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Toluene	**1.1**	ug/L	1.0	0.21	1		05/08/09 23:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.11	1		05/08/09 23:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.15	1		05/08/09 23:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.20	1		05/08/09 23:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.19	1		05/08/09 23:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		05/08/09 23:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.24	1		05/08/09 23:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.37	1		05/08/09 23:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.086	1		05/08/09 23:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.16	1		05/08/09 23:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.27	1		05/08/09 23:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.15	1		05/08/09 23:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.27	1		05/08/09 23:44	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.15	1		05/08/09 23:44	95-47-6	
4-Bromofluorobenzene (S)	107	%	82-116		1		05/08/09 23:44	460-00-4	
Dibromofluoromethane (S)	108	%	86-115		1		05/08/09 23:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	77-121		1		05/08/09 23:44	17060-07-0	
Toluene-d8 (S)	115	%	85-117		1		05/08/09 23:44	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**12.0**	mg/L	2.0	2.0	1		05/11/09 12:00		

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall A **Lab ID: 251125002** Collected: 05/04/09 16:00 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	0.0096	0.00091	1	05/08/09 15:57	05/14/09 20:38	83-32-9	
Acenaphthylene	ND	ug/L	0.0096	0.00082	1	05/08/09 15:57	05/14/09 20:38	208-96-8	
Anthracene	ND	ug/L	0.0096	0.00091	1	05/08/09 15:57	05/14/09 20:38	120-12-7	
Benzo(a)anthracene	**0.027**	ug/L	0.0096	0.0039	1	05/08/09 15:57	05/14/09 20:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.0096	0.0024	1	05/08/09 15:57	05/14/09 20:38	50-32-8	
Benzo(b)fluoranthene	**0.047**	ug/L	0.0096	0.0024	1	05/08/09 15:57	05/14/09 20:38	205-99-2	
Benzo(g,h,i)perylene	**0.10**	ug/L	0.0096	0.0040	1	05/08/09 15:57	05/14/09 20:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.0096	0.0031	1	05/08/09 15:57	05/14/09 20:38	207-08-9	
Chrysene	**0.038**	ug/L	0.0096	0.0043	1	05/08/09 15:57	05/14/09 20:38	218-01-9	
Dibenz(a,h)anthracene	**0.14**	ug/L	0.0096	0.0038	1	05/08/09 15:57	05/14/09 20:38	53-70-3	
Fluoranthene	**0.096**	ug/L	0.0096	0.0017	1	05/08/09 15:57	05/14/09 20:38	206-44-0	B
Fluorene	**0.13**	ug/L	0.0096	0.0012	1	05/08/09 15:57	05/14/09 20:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.099**	ug/L	0.0096	0.0058	1	05/08/09 15:57	05/14/09 20:38	193-39-5	
2-Methylnaphthalene	**0.013**	ug/L	0.0096	0.0019	1	05/08/09 15:57	05/14/09 20:38	91-57-6	B
Naphthalene	ND	ug/L	0.0096	0.0047	1	05/08/09 15:57	05/14/09 20:38	91-20-3	
Phenanthrene	**0.053**	ug/L	0.0096	0.0023	1	05/08/09 15:57	05/14/09 20:38	85-01-8	
Pyrene	**0.039**	ug/L	0.0096	0.0014	1	05/08/09 15:57	05/14/09 20:38	129-00-0	
Nitrobenzene-d5 (S)	96	%	50-110		1	05/08/09 15:57	05/14/09 20:38	4165-60-0	E
2-Fluorobiphenyl (S)	97	%	40-110		1	05/08/09 15:57	05/14/09 20:38	321-60-8	E
Terphenyl-d14 (S)	96	%	50-135		1	05/08/09 15:57	05/14/09 20:38	1718-51-0	E

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall B **Lab ID: 251125003** Collected: 05/04/09 15:25 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.0048	0.0031	1	05/11/09 16:07	05/14/09 05:16	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.0048	0.048	1	05/11/09 16:07	05/14/09 05:16	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.0048	0.048	1	05/11/09 16:07	05/14/09 05:16	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.0048	0.048	1	05/11/09 16:07	05/14/09 05:16	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.0048	0.048	1	05/11/09 16:07	05/14/09 05:16	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.0048	0.048	1	05/11/09 16:07	05/14/09 05:16	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.0048	0.0034	1	05/11/09 16:07	05/14/09 05:16	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/L	0.0048		1	05/11/09 16:07	05/14/09 15:41	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/L	0.0048		1	05/11/09 16:07	05/14/09 15:41	11100-14-4	
Tetrachloro-m-xylene (S)	77	%	10-129		1	05/11/09 16:07	05/14/09 05:16	877-09-8	
Decachlorobiphenyl (S)	102	%	32-149		1	05/11/09 16:07	05/14/09 05:16	2051-24-3	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range	**0.15**	mg/L	0.080	0.037	1	05/13/09 12:11	05/14/09 18:15		
Motor Oil Range	ND	mg/L	0.40	0.061	1	05/13/09 12:11	05/14/09 18:15	64742-65-0	
n-Octacosane (S)	95	%	50-150		1	05/13/09 12:11	05/14/09 18:15	630-02-4	
o-Terphenyl (S)	80	%	50-150		1	05/13/09 12:11	05/14/09 18:15	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx								
Gasoline Range Organics	ND	ug/L	50.0	13.4	1		05/14/09 18:21		
a,a,a-Trifluorotoluene (S)	82	%	62-129		1		05/14/09 18:21	98-08-8	
4-Bromofluorobenzene (S)	91	%	61-121		1		05/14/09 18:21	460-00-4	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Butylbenzylphthalate	ND	ug/L	1.9	0.34	1	05/11/09 16:27	05/15/09 14:00	85-68-7	
Diethylphthalate	ND	ug/L	1.9	0.42	1	05/11/09 16:27	05/15/09 14:00	84-66-2	
Dimethylphthalate	ND	ug/L	1.9	0.36	1	05/11/09 16:27	05/15/09 14:00	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.9	0.29	1	05/11/09 16:27	05/15/09 14:00	84-74-2	
Di-n-octylphthalate	ND	ug/L	1.9	0.56	1	05/11/09 16:27	05/15/09 14:00	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.9	0.42	1	05/11/09 16:27	05/15/09 14:00	117-81-7	
Nitrobenzene-d5 (S)	52	%	50-110		1	05/11/09 16:27	05/15/09 14:00	4165-60-0	
2-Fluorobiphenyl (S)	47	%	40-110		1	05/11/09 16:27	05/15/09 14:00	321-60-8	
Terphenyl-d14 (S)	53	%	50-135		1	05/11/09 16:27	05/15/09 14:00	1718-51-0	
Phenol-d6 (S)	15	%	10-115		1	05/11/09 16:27	05/15/09 14:00	13127-88-3	
2-Fluorophenol (S)	27	%	20-110		1	05/11/09 16:27	05/15/09 14:00	367-12-4	
2,4,6-Tribromophenol (S)	56	%	40-125		1	05/11/09 16:27	05/15/09 14:00	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**9.7**	ug/L	5.0	0.75	1		05/14/09 19:03	67-64-1	
Benzene	ND	ug/L	1.0	0.12	1		05/14/09 19:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.16	1		05/14/09 19:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.34	1		05/14/09 19:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.11	1		05/14/09 19:03	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		05/14/09 19:03	75-25-2	
Bromomethane	ND	ug/L	1.0	0.072	1		05/14/09 19:03	74-83-9	

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall B **Lab ID: 251125003** Collected: 05/04/09 15:25 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
2-Butanone (MEK)	ND	ug/L	5.0	0.52	1		05/14/09 19:03	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		05/14/09 19:03	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.10	1		05/14/09 19:03	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.11	1		05/14/09 19:03	98-06-6	
Carbon disulfide	ND	ug/L	1.0	0.16	1		05/14/09 19:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		05/14/09 19:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.12	1		05/14/09 19:03	108-90-7	
Chloroethane	ND	ug/L	1.0	0.27	1		05/14/09 19:03	75-00-3	
Chloroform	ND	ug/L	1.0	0.15	1		05/14/09 19:03	67-66-3	
Chloromethane	ND	ug/L	1.0	0.20	1		05/14/09 19:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.098	1		05/14/09 19:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.13	1		05/14/09 19:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.38	1		05/14/09 19:03	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.12	1		05/14/09 19:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/14/09 19:03	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		05/14/09 19:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.25	1		05/14/09 19:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.16	1		05/14/09 19:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.20	1		05/14/09 19:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.19	1		05/14/09 19:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.23	1		05/14/09 19:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.074	1		05/14/09 19:03	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.50	1		05/14/09 19:03	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.12	1		05/14/09 19:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.32	1		05/14/09 19:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.22	1		05/14/09 19:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		05/14/09 19:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.22	1		05/14/09 19:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.27	1		05/14/09 19:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.094	1		05/14/09 19:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.086	1		05/14/09 19:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.16	1		05/14/09 19:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.20	1		05/14/09 19:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.27	1		05/14/09 19:03	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.57	1		05/14/09 19:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.11	1		05/14/09 19:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.074	1		05/14/09 19:03	99-87-6	
Methylene chloride	ND	ug/L	1.0	1.0	1		05/14/09 19:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.32	1		05/14/09 19:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.16	1		05/14/09 19:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.10	1		05/14/09 19:03	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.16	1		05/14/09 19:03	103-65-1	
Styrene	ND	ug/L	1.0	0.074	1		05/14/09 19:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		05/14/09 19:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/14/09 19:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		05/14/09 19:03	127-18-4	

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall B **Lab ID: 251125003** Collected: 05/04/09 15:25 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Toluene	ND	ug/L	1.0	0.21	1		05/14/09 19:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.11	1		05/14/09 19:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.15	1		05/14/09 19:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.20	1		05/14/09 19:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.19	1		05/14/09 19:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.22	1		05/14/09 19:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.24	1		05/14/09 19:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.37	1		05/14/09 19:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.086	1		05/14/09 19:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.16	1		05/14/09 19:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.27	1		05/14/09 19:03	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.15	1		05/14/09 19:03	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.27	1		05/14/09 19:03	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.15	1		05/14/09 19:03	95-47-6	
4-Bromofluorobenzene (S)	104	%	82-116		1		05/14/09 19:03	460-00-4	
Dibromofluoromethane (S)	106	%	86-115		1		05/14/09 19:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	77-121		1		05/14/09 19:03	17060-07-0	
Toluene-d8 (S)	107	%	85-117		1		05/14/09 19:03	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**15.0**	mg/L	2.0	2.0	1		05/11/09 12:00		

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ANALYTICAL RESULTS

Project: Brix-Portland
Pace Project No.: 251125

Sample: Outfall B **Lab ID: 251125004** Collected: 05/04/09 15:25 Received: 05/06/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	**0.024**	ug/L	0.0095	0.00090	1	05/08/09 15:57	05/14/09 21:00	83-32-9	
Acenaphthylene	ND	ug/L	0.0095	0.00081	1	05/08/09 15:57	05/14/09 21:00	208-96-8	
Anthracene	**0.012**	ug/L	0.0095	0.00090	1	05/08/09 15:57	05/14/09 21:00	120-12-7	
Benzo(a)anthracene	**0.16**	ug/L	0.0095	0.0039	1	05/08/09 15:57	05/14/09 21:00	56-55-3	
Benzo(a)pyrene	**0.27**	ug/L	0.0095	0.0023	1	05/08/09 15:57	05/14/09 21:00	50-32-8	
Benzo(b)fluoranthene	**0.34**	ug/L	0.0095	0.0024	1	05/08/09 15:57	05/14/09 21:00	205-99-2	
Benzo(g,h,i)perylene	**0.29**	ug/L	0.0095	0.0040	1	05/08/09 15:57	05/14/09 21:00	191-24-2	
Benzo(k)fluoranthene	**0.18**	ug/L	0.0095	0.0030	1	05/08/09 15:57	05/14/09 21:00	207-08-9	
Chrysene	**0.24**	ug/L	0.0095	0.0043	1	05/08/09 15:57	05/14/09 21:00	218-01-9	
Dibenz(a,h)anthracene	**0.19**	ug/L	0.0095	0.0038	1	05/08/09 15:57	05/14/09 21:00	53-70-3	
Fluoranthene	**0.50**	ug/L	0.0095	0.0017	1	05/08/09 15:57	05/14/09 21:00	206-44-0	B
Fluorene	**0.15**	ug/L	0.0095	0.0012	1	05/08/09 15:57	05/14/09 21:00	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.30**	ug/L	0.0095	0.0058	1	05/08/09 15:57	05/14/09 21:00	193-39-5	
2-Methylnaphthalene	**0.023**	ug/L	0.0095	0.0019	1	05/08/09 15:57	05/14/09 21:00	91-57-6	B
Naphthalene	ND	ug/L	0.0095	0.0047	1	05/08/09 15:57	05/14/09 21:00	91-20-3	
Phenanthrene	**0.22**	ug/L	0.0095	0.0023	1	05/08/09 15:57	05/14/09 21:00	85-01-8	
Pyrene	**0.33**	ug/L	0.0095	0.0014	1	05/08/09 15:57	05/14/09 21:00	129-00-0	
Nitrobenzene-d5 (S)	89	%	50-110		1	05/08/09 15:57	05/14/09 21:00	4165-60-0	E
2-Fluorobiphenyl (S)	86	%	40-110		1	05/08/09 15:57	05/14/09 21:00	321-60-8	E
Terphenyl-d14 (S)	90	%	50-135		1	05/08/09 15:57	05/14/09 21:00	1718-51-0	E

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: OEXT/1044 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 251125002, 251125004

METHOD BLANK: 1166 | Matrix: Water
Associated Lab Samples: 251125002, 251125004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Methylnaphthalene	ug/L	0.015	0.010	05/14/09 15:46	
Acenaphthene	ug/L	ND	0.010	05/14/09 15:46	
Acenaphthylene	ug/L	ND	0.010	05/14/09 15:46	
Anthracene	ug/L	ND	0.010	05/14/09 15:46	
Benzo(a)anthracene	ug/L	ND	0.010	05/14/09 15:46	
Benzo(a)pyrene	ug/L	ND	0.010	05/14/09 15:46	
Benzo(b)fluoranthene	ug/L	ND	0.010	05/14/09 15:46	
Benzo(g,h,i)perylene	ug/L	ND	0.010	05/14/09 15:46	
Benzo(k)fluoranthene	ug/L	ND	0.010	05/14/09 15:46	
Chrysene	ug/L	ND	0.010	05/14/09 15:46	
Dibenz(a,h)anthracene	ug/L	ND	0.010	05/14/09 15:46	
Fluoranthene	ug/L	0.024	0.010	05/14/09 15:46	B
Fluorene	ug/L	ND	0.010	05/14/09 15:46	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.010	05/14/09 15:46	
Naphthalene	ug/L	ND	0.010	05/14/09 15:46	
Phenanthrene	ug/L	ND	0.010	05/14/09 15:46	
Pyrene	ug/L	ND	0.010	05/14/09 15:46	
2-Fluorobiphenyl (S)	%	109	40-110	05/14/09 21:23	
Nitrobenzene-d5 (S)	%	121	50-110	05/14/09 21:23	S0
Terphenyl-d14 (S)	%	117	50-135	05/14/09 21:23	

LABORATORY CONTROL SAMPLE & LCSD: 1167 1168

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Methylnaphthalene	ug/L	1.2	0.85	0.84	68	67	20-98		30	
Acenaphthene	ug/L	1.2	0.97	1.0	77	81	42-91		30	
Acenaphthylene	ug/L	1.2	0.89	0.84	71	68	29-94		30	
Anthracene	ug/L	1.2	0.95	0.90	76	72	42-103		30	
Benzo(a)anthracene	ug/L	1.2	1.1	1.1	85	84	44-107		30	
Benzo(a)pyrene	ug/L	1.2	0.92	0.89	73	71	27-106		30	
Benzo(b)fluoranthene	ug/L	1.2	1.1	1.1	91	92	51-112		30	
Benzo(g,h,i)perylene	ug/L	1.2	0.90	0.86	72	69	28-115		30	
Benzo(k)fluoranthene	ug/L	1.2	0.92	0.88	73	70	50-110		30	
Chrysene	ug/L	1.2	0.93	0.91	74	73	47-110		30	
Dibenz(a,h)anthracene	ug/L	1.2	0.92	0.88	74	71	26-118		30	
Fluoranthene	ug/L	1.2	1.0	1.0	82	80	51-112		30	
Fluorene	ug/L	1.2	1.0	1.1	82	86	54-94		30	
Indeno(1,2,3-cd)pyrene	ug/L	1.2	0.94	0.87	75	70	28-107		30	
Naphthalene	ug/L	1.2	0.81	0.79	65	63	20-99		30	
Phenanthrene	ug/L	1.2	0.96	0.91	76	73	48-109		30	
Pyrene	ug/L	1.2	0.88	0.86	71	69	41-112		30	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

LABORATORY CONTROL SAMPLE & LCSD: 1167 1168

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Fluorobiphenyl (S)	%				82	75	40-110			
Nitrobenzene-d5 (S)	%				89	89	50-110			
Terphenyl-d14 (S)	%				95	95	50-135			

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: OEXT/1057 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV
Associated Lab Samples: 251125001, 251125003

METHOD BLANK: 1363 | Matrix: Water
Associated Lab Samples: 251125001, 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	ND	2.0	05/15/09 11:58	
Butylbenzylphthalate	ug/L	ND	2.0	05/15/09 11:58	
Di-n-butylphthalate	ug/L	ND	2.0	05/15/09 11:58	
Di-n-octylphthalate	ug/L	ND	2.0	05/15/09 11:58	
Diethylphthalate	ug/L	ND	2.0	05/15/09 11:58	
Dimethylphthalate	ug/L	ND	2.0	05/15/09 11:58	
2,4,6-Tribromophenol (S)	%	52	40-125	05/15/09 11:58	
2-Fluorobiphenyl (S)	%	46	40-110	05/15/09 11:58	
2-Fluorophenol (S)	%	33	20-110	05/15/09 11:58	
Nitrobenzene-d5 (S)	%	58	50-110	05/15/09 11:58	
Phenol-d6 (S)	%	19	10-115	05/15/09 11:58	
Terphenyl-d14 (S)	%	54	50-135	05/15/09 11:58	

LABORATORY CONTROL SAMPLE & LCSD: 1364 1365

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	20	13.0	13.0	65	65	47-146	0	30	
Butylbenzylphthalate	ug/L	20	11.3	12.0	57	60	44-108	5	30	
Di-n-butylphthalate	ug/L	20	13.4	13.7	67	69	53-107	2	30	
Di-n-octylphthalate	ug/L	20	11.0	11.0	55	55	54-109	0	30	
Diethylphthalate	ug/L	20	12.4	13.1	62	66	20-126	6	30	
Dimethylphthalate	ug/L	20	12.0	12.4	60	62	54-99	4	30	
2,4,6-Tribromophenol (S)	%				53	58	40-125			
2-Fluorobiphenyl (S)	%				50	53	40-110			
2-Fluorophenol (S)	%				38	32	20-110			
Nitrobenzene-d5 (S)	%				65	61	50-110			
Phenol-d6 (S)	%				24	20	10-115			
Terphenyl-d14 (S)	%				52	52	50-135			

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: GCV/1030 | Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx | Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 251125001, 251125003

METHOD BLANK: 1686 | Matrix: Water
Associated Lab Samples: 251125001, 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	05/14/09 17:17	
4-Bromofluorobenzene (S)	%	101	50-150	05/14/09 17:17	
a,a,a-Trifluorotoluene (S)	%	95	50-150	05/14/09 17:17	

LABORATORY CONTROL SAMPLE: 1687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	250	356	142	50-163	
4-Bromofluorobenzene (S)	%			107	50-150	
a,a,a-Trifluorotoluene (S)	%			98	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1688 2017

Parameter	Units	251130005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	ug/L	ND	250	250	375	400	150	160	50-163	6	30	
4-Bromofluorobenzene (S)	%						99	97	50-150			
a,a,a-Trifluorotoluene (S)	%						92	93	50-150			

SAMPLE DUPLICATE: 1690

Parameter	Units	251130005 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		30	
4-Bromofluorobenzene (S)	%	99	94	5		
a,a,a-Trifluorotoluene (S)	%	91	88	3		

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: MSV/1049
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 251125003

METHOD BLANK: 1748
Matrix: Water
Associated Lab Samples: 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,1-Dichloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,1-Dichloroethene	ug/L	ND	1.0	05/14/09 17:06	
1,1-Dichloropropene	ug/L	ND	1.0	05/14/09 17:06	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/14/09 17:06	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/14/09 17:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	05/14/09 17:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/14/09 17:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
1,2-Dichloroethane	ug/L	ND	1.0	05/14/09 17:06	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	05/14/09 17:06	
1,2-Dichloropropane	ug/L	ND	1.0	05/14/09 17:06	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/14/09 17:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
1,3-Dichloropropane	ug/L	ND	1.0	05/14/09 17:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
2,2-Dichloropropane	ug/L	ND	1.0	05/14/09 17:06	
2-Butanone (MEK)	ug/L	ND	5.0	05/14/09 17:06	
2-Chlorotoluene	ug/L	ND	1.0	05/14/09 17:06	
2-Hexanone	ug/L	ND	5.0	05/14/09 17:06	
4-Chlorotoluene	ug/L	ND	1.0	05/14/09 17:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/14/09 17:06	
Acetone	ug/L	ND	5.0	05/14/09 17:06	
Benzene	ug/L	ND	1.0	05/14/09 17:06	
Bromobenzene	ug/L	ND	1.0	05/14/09 17:06	
Bromochloromethane	ug/L	ND	1.0	05/14/09 17:06	
Bromodichloromethane	ug/L	ND	1.0	05/14/09 17:06	
Bromoform	ug/L	ND	1.0	05/14/09 17:06	
Bromomethane	ug/L	ND	1.0	05/14/09 17:06	
Carbon disulfide	ug/L	ND	1.0	05/14/09 17:06	
Carbon tetrachloride	ug/L	ND	1.0	05/14/09 17:06	
Chlorobenzene	ug/L	ND	1.0	05/14/09 17:06	
Chloroethane	ug/L	ND	1.0	05/14/09 17:06	
Chloroform	ug/L	ND	1.0	05/14/09 17:06	
Chloromethane	ug/L	ND	1.0	05/14/09 17:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/14/09 17:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/14/09 17:06	
Dibromochloromethane	ug/L	ND	1.0	05/14/09 17:06	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

METHOD BLANK: 1748 Matrix: Water

Associated Lab Samples: 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	05/14/09 17:06	
Dichlorodifluoromethane	ug/L	ND	1.0	05/14/09 17:06	
Ethylbenzene	ug/L	ND	1.0	05/14/09 17:06	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/14/09 17:06	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/14/09 17:06	
m&p-Xylene	ug/L	ND	2.0	05/14/09 17:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/14/09 17:06	
Methylene chloride	ug/L	ND	1.0	05/14/09 17:06	
n-Butylbenzene	ug/L	ND	1.0	05/14/09 17:06	
n-Propylbenzene	ug/L	ND	1.0	05/14/09 17:06	
Naphthalene	ug/L	ND	1.0	05/14/09 17:06	
o-Xylene	ug/L	ND	1.0	05/14/09 17:06	
p-Isopropyltoluene	ug/L	ND	1.0	05/14/09 17:06	
sec-Butylbenzene	ug/L	ND	1.0	05/14/09 17:06	
Styrene	ug/L	ND	1.0	05/14/09 17:06	
tert-Butylbenzene	ug/L	ND	1.0	05/14/09 17:06	
Tetrachloroethene	ug/L	ND	1.0	05/14/09 17:06	
Toluene	ug/L	ND	1.0	05/14/09 17:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/14/09 17:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/14/09 17:06	
Trichloroethene	ug/L	ND	1.0	05/14/09 17:06	
Trichlorofluoromethane	ug/L	ND	1.0	05/14/09 17:06	
Vinyl chloride	ug/L	ND	1.0	05/14/09 17:06	
Xylene (Total)	ug/L	ND	3.0	05/14/09 17:06	
1,2-Dichloroethane-d4 (S)	%	104	77-121	05/14/09 17:06	
4-Bromofluorobenzene (S)	%	103	82-116	05/14/09 17:06	
Dibromofluoromethane (S)	%	103	86-115	05/14/09 17:06	
Toluene-d8 (S)	%	107	85-117	05/14/09 17:06	

LABORATORY CONTROL SAMPLE & LCSD: 1749 1750

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	9.6	8.3	96	83	73-126	15	30	
1,1,1-Trichloroethane	ug/L	10	9.8	8.1	98	81	69-135	19	30	
1,1,2,2-Tetrachloroethane	ug/L	10	10.2	8.9	102	89	69-123	13	30	
1,1,2-Trichloroethane	ug/L	10	9.6	8.4	96	84	76-114	13	30	
1,1-Dichloroethane	ug/L	10	10.1	8.5	101	85	74-124	17	30	
1,1-Dichloroethene	ug/L	10	9.6	8.1	96	81	69-139	17	30	
1,1-Dichloropropene	ug/L	10	10.9	8.8	109	88	77-134	21	30	
1,2,3-Trichlorobenzene	ug/L	10	10.6	9.3	106	93	63-136	13	30	
1,2,3-Trichloropropane	ug/L	10	10.1	8.6	101	86	66-118	15	30	
1,2,4-Trichlorobenzene	ug/L	10	10.6	9.2	106	92	68-129	14	30	
1,2,4-Trimethylbenzene	ug/L	10	10.4	9.0	104	90	72-126	15	30	
1,2-Dibromo-3-chloropropane	ug/L	10	9.7	8.6	97	86	64-124	12	30	
1,2-Dibromoethane (EDB)	ug/L	10	10.0	8.7	100	87	78-117	14	30	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

LABORATORY CONTROL SAMPLE & LCSD: 1749 1750

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/L	10	10.2	8.6	102	86	74-118	17	30	
1,2-Dichloroethane	ug/L	10	9.7	8.5	97	85	73-127	14	30	
1,2-Dichloroethene (Total)	ug/L	20	20.4	17.1	102	85	60-140	18	30	
1,2-Dichloropropane	ug/L	10	9.9	8.4	99	84	72-126	16	30	
1,3,5-Trimethylbenzene	ug/L	10	10.5	8.9	105	89	68-129	16	30	
1,3-Dichlorobenzene	ug/L	10	10.1	8.4	101	84	73-119	17	30	
1,3-Dichloropropane	ug/L	10	10.3	8.6	103	86	74-119	17	30	
1,4-Dichlorobenzene	ug/L	10	9.9	8.3	99	83	73-115	17	30	
2,2-Dichloropropane	ug/L	10	10.7	8.8	107	88	46-157	19	30	
2-Butanone (MEK)	ug/L	10	9.6	7.5	96	75	65-138	24	30	
2-Chlorotoluene	ug/L	10	10.4	8.5	104	85	68-122	19	30	
2-Hexanone	ug/L	10	8.9	8.0	89	80	60-135	11	30	
4-Chlorotoluene	ug/L	10	10.6	8.8	106	88	70-122	18	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10	8.9	7.5	89	75	70-135	17	30	
Acetone	ug/L	10	8.2	7.1	82	71	58-146	14	30	
Benzene	ug/L	10	9.9	8.4	99	84	75-124	16	30	
Bromobenzene	ug/L	10	10.2	8.4	102	84	74-116	19	30	
Bromochloromethane	ug/L	10	10	8.6	100	86	75-128	15	30	
Bromodichloromethane	ug/L	10	9.9	8.3	99	83	77-126	18	30	
Bromoform	ug/L	10	9.5	8.3	95	83	61-131	13	30	
Bromomethane	ug/L	10	9.6	7.6	96	76	58-139	23	30	
Carbon disulfide	ug/L	10	7.5	6.4	75	64	39-122	16	30	
Carbon tetrachloride	ug/L	10	10	8.3	100	83	67-136	18	30	
Chlorobenzene	ug/L	10	9.7	8.3	97	83	78-115	15	30	
Chloroethane	ug/L	10	10.1	8.2	101	82	58-137	20	30	
Chloroform	ug/L	10	9.3	7.7	93	77	75-124	19	30	
Chloromethane	ug/L	10	10.5	8.7	105	87	50-129	19	30	
cis-1,2-Dichloroethene	ug/L	10	10.7	8.9	107	89	78-126	18	30	
cis-1,3-Dichloropropene	ug/L	10	10.8	9.3	108	93	78-159	15	30	
Dibromochloromethane	ug/L	10	10.2	8.7	102	87	81-125	16	30	
Dibromomethane	ug/L	10	9.8	8.4	98	84	75-124	15	30	
Dichlorodifluoromethane	ug/L	10	12.2	10.4	122	104	30-140	16	30	
Ethylbenzene	ug/L	10	10.3	8.7	103	87	76-124	17	30	
Hexachloro-1,3-butadiene	ug/L	10	10.7	8.7	107	87	55-132	20	30	
Isopropylbenzene (Cumene)	ug/L	10	10.2	8.8	102	88	73-127	15	30	
m&p-Xylene	ug/L	20	21.6	17.9	108	90	75-124	18	30	
Methyl-tert-butyl ether	ug/L	10	10.0	8.8	100	88	72-130	14	30	
Methylene chloride	ug/L	10	9.3	8.0	93	80	69-124	15	30	
n-Butylbenzene	ug/L	10	10.4	8.7	104	87	65-131	18	30	
n-Propylbenzene	ug/L	10	10.6	8.8	106	88	69-129	19	30	
Naphthalene	ug/L	10	9.3	8.2	93	82	69-135	12	30	
o-Xylene	ug/L	10	9.6	8.3	96	83	76-121	15	30	
p-Isopropyltoluene	ug/L	10	10.6	8.9	106	89	69-133	16	30	
sec-Butylbenzene	ug/L	10	10.3	8.6	103	86	67-132	18	30	
Styrene	ug/L	10	10.3	8.8	103	88	76-121	15	30	
tert-Butylbenzene	ug/L	10	10.1	8.7	101	87	66-132	15	30	
Tetrachloroethene	ug/L	10	10.0	8.6	100	86	70-127	15	30	
Toluene	ug/L	10	9.9	8.4	99	84	75-124	16	30	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

LABORATORY CONTROL SAMPLE & LCSD: 1749 1750

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	ug/L	10	9.7	8.2	97	82	72-129	17	30	
trans-1,3-Dichloropropene	ug/L	10	9.2	8.0	92	80	69-122	15	30	
Trichloroethene	ug/L	10	9.9	8.2	99	82	78-124	19	30	
Trichlorofluoromethane	ug/L	10	9.7	8.0	97	80	60-147	19	30	
Vinyl chloride	ug/L	10	10.3	8.6	103	86	56-136	18	30	
Xylene (Total)	ug/L	30	31.2	26.2	104	87	76-123	17	30	
1,2-Dichloroethane-d4 (S)	%				102	102	77-121			
4-Bromofluorobenzene (S)	%				107	105	82-116			
Dibromofluoromethane (S)	%				104	103	86-115			
Toluene-d8 (S)	%				107	108	85-117			

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: OEXT/1068 | Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 | Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 251125001, 251125003

METHOD BLANK: 1615 | Matrix: Water
Associated Lab Samples: 251125001, 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range	mg/L	ND	0.080	05/14/09 17:17	
Motor Oil Range	mg/L	ND	0.40	05/14/09 17:17	
n-Octacosane (S)	%	92	50-150	05/14/09 17:17	
o-Terphenyl (S)	%	81	50-150	05/14/09 17:17	

LABORATORY CONTROL SAMPLE: 1616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range	mg/L	5	3.6	71	51-147	
Motor Oil Range	mg/L	5	4.5	91	20-160	
n-Octacosane (S)	%			91	50-150	
o-Terphenyl (S)	%			80	50-150	

MATRIX SPIKE SAMPLE: 1617

Parameter	Units	251130005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Diesel Range	mg/L	ND	5.2	3.9	74	50-150	
Motor Oil Range	mg/L	ND	5.2	5.2	100	20-160	
n-Octacosane (S)	%				85	50-150	
o-Terphenyl (S)	%				79	50-150	

SAMPLE DUPLICATE: 1618

Parameter	Units	251130005 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range	mg/L	ND	ND		50	
Motor Oil Range	mg/L	ND	ND		50	
n-Octacosane (S)	%		91	1		
o-Terphenyl (S)	%		82	2		

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: MSV/1038
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 251125001

METHOD BLANK: 1181
Matrix: Water
Associated Lab Samples: 251125001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,1-Dichloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,1-Dichloroethene	ug/L	ND	1.0	05/08/09 14:12	
1,1-Dichloropropene	ug/L	ND	1.0	05/08/09 14:12	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/08/09 14:12	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/08/09 14:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	05/08/09 14:12	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/08/09 14:12	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
1,2-Dichloroethane	ug/L	ND	1.0	05/08/09 14:12	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	05/08/09 14:12	
1,2-Dichloropropane	ug/L	ND	1.0	05/08/09 14:12	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/08/09 14:12	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
1,3-Dichloropropane	ug/L	ND	1.0	05/08/09 14:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
2,2-Dichloropropane	ug/L	ND	1.0	05/08/09 14:12	
2-Butanone (MEK)	ug/L	ND	5.0	05/08/09 14:12	
2-Chlorotoluene	ug/L	ND	1.0	05/08/09 14:12	
2-Hexanone	ug/L	ND	5.0	05/08/09 14:12	
4-Chlorotoluene	ug/L	ND	1.0	05/08/09 14:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/08/09 14:12	
Acetone	ug/L	ND	5.0	05/08/09 14:12	
Benzene	ug/L	ND	1.0	05/08/09 14:12	
Bromobenzene	ug/L	ND	1.0	05/08/09 14:12	
Bromochloromethane	ug/L	ND	1.0	05/08/09 14:12	
Bromodichloromethane	ug/L	ND	1.0	05/08/09 14:12	
Bromoform	ug/L	ND	1.0	05/08/09 14:12	
Bromomethane	ug/L	ND	1.0	05/08/09 14:12	
Carbon disulfide	ug/L	ND	1.0	05/08/09 14:12	
Carbon tetrachloride	ug/L	ND	1.0	05/08/09 14:12	
Chlorobenzene	ug/L	ND	1.0	05/08/09 14:12	
Chloroethane	ug/L	ND	1.0	05/08/09 14:12	
Chloroform	ug/L	ND	1.0	05/08/09 14:12	
Chloromethane	ug/L	ND	1.0	05/08/09 14:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/08/09 14:12	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/08/09 14:12	
Dibromochloromethane	ug/L	ND	1.0	05/08/09 14:12	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

METHOD BLANK: 1181 Matrix: Water

Associated Lab Samples: 251125001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	05/08/09 14:12	
Dichlorodifluoromethane	ug/L	ND	1.0	05/08/09 14:12	
Ethylbenzene	ug/L	ND	1.0	05/08/09 14:12	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/08/09 14:12	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/08/09 14:12	
m&p-Xylene	ug/L	ND	2.0	05/08/09 14:12	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/08/09 14:12	
Methylene chloride	ug/L	ND	1.0	05/08/09 14:12	
n-Butylbenzene	ug/L	ND	1.0	05/08/09 14:12	
n-Propylbenzene	ug/L	ND	1.0	05/08/09 14:12	
Naphthalene	ug/L	ND	1.0	05/08/09 14:12	
o-Xylene	ug/L	ND	1.0	05/08/09 14:12	
p-Isopropyltoluene	ug/L	ND	1.0	05/08/09 14:12	
sec-Butylbenzene	ug/L	ND	1.0	05/08/09 14:12	
Styrene	ug/L	ND	1.0	05/08/09 14:12	
tert-Butylbenzene	ug/L	ND	1.0	05/08/09 14:12	
Tetrachloroethene	ug/L	ND	1.0	05/08/09 14:12	
Toluene	ug/L	ND	1.0	05/08/09 14:12	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/08/09 14:12	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/08/09 14:12	
Trichloroethene	ug/L	ND	1.0	05/08/09 14:12	
Trichlorofluoromethane	ug/L	ND	1.0	05/08/09 14:12	
Vinyl chloride	ug/L	ND	1.0	05/08/09 14:12	
Xylene (Total)	ug/L	ND	3.0	05/08/09 14:12	
1,2-Dichloroethane-d4 (S)	%	114	77-121	05/08/09 14:12	
4-Bromofluorobenzene (S)	%	108	82-116	05/08/09 14:12	
Dibromofluoromethane (S)	%	113	86-115	05/08/09 14:12	
Toluene-d8 (S)	%	113	85-117	05/08/09 14:12	

LABORATORY CONTROL SAMPLE & LCSD: 1182 1183

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.3	10.3	103	103	73-126	.1	30	
1,1,1-Trichloroethane	ug/L	10	11.0	10.8	110	108	69-135	1	30	
1,1,2,2-Tetrachloroethane	ug/L	10	10.6	10.4	106	104	69-123	2	30	
1,1,2-Trichloroethane	ug/L	10	10.2	9.9	102	99	76-114	3	30	
1,1-Dichloroethane	ug/L	10	10.9	10.9	109	109	74-124	.7	30	
1,1-Dichloroethene	ug/L	10	11.9	11.5	119	115	69-139	4	30	
1,1-Dichloropropene	ug/L	10	11.0	10.8	110	108	77-134	2	30	
1,2,3-Trichlorobenzene	ug/L	10	10.1	10.1	101	101	63-136	.2	30	
1,2,3-Trichloropropane	ug/L	10	9.7	9.6	97	96	66-118	2	30	
1,2,4-Trichlorobenzene	ug/L	10	10.1	10.1	101	101	68-129	.07	30	
1,2,4-Trimethylbenzene	ug/L	10	10.1	10.2	101	102	72-126	1	30	
1,2-Dibromo-3-chloropropane	ug/L	10	9.7	10	97	100	64-124	3	30	
1,2-Dibromoethane (EDB)	ug/L	10	10.1	10.4	101	104	78-117	3	30	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

LABORATORY CONTROL SAMPLE & LCSD: 1182 1183

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/L	10	10.5	10.6	105	106	74-118	1	30	
1,2-Dichloroethane	ug/L	10	10.8	10.3	108	103	73-127	5	30	
1,2-Dichloroethene (Total)	ug/L	20	21.3	21.3	107	106	60-140	.3	30	
1,2-Dichloropropane	ug/L	10	10	9.8	100	98	72-126	2	30	
1,3,5-Trimethylbenzene	ug/L	10	10	10.3	100	103	68-129	3	30	
1,3-Dichlorobenzene	ug/L	10	10.2	10.4	102	104	73-119	2	30	
1,3-Dichloropropane	ug/L	10	10.0	10.1	100	101	74-119	.9	30	
1,4-Dichlorobenzene	ug/L	10	10.3	10.2	103	102	73-115	.7	30	
2,2-Dichloropropane	ug/L	10	9.8	9.8	98	98	46-157	.2	30	
2-Butanone (MEK)	ug/L	10	9.0	8.8	90	88	65-138	3	30	
2-Chlorotoluene	ug/L	10	9.8	10.1	98	101	68-122	3	30	
2-Hexanone	ug/L	10	8.6	8.1	86	81	60-135	5	30	
4-Chlorotoluene	ug/L	10	10.2	10.6	102	106	70-122	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10	9.2	9.0	92	90	70-135	2	30	
Acetone	ug/L	10	8.9	9.4	89	94	58-146	5	30	
Benzene	ug/L	10	10.5	10.2	105	102	75-124	3	30	
Bromobenzene	ug/L	10	10.2	10.3	102	103	74-116	2	30	
Bromochloromethane	ug/L	10	11.2	11.1	112	111	75-128	1	30	
Bromodichloromethane	ug/L	10	10.5	10.5	105	105	77-126	.5	30	
Bromoform	ug/L	10	10.1	10.0	101	100	61-131	.7	30	
Bromomethane	ug/L	10	11.9	12.1	119	121	58-139	1	30	
Carbon disulfide	ug/L	10	9.2	8.7	92	87	39-122	5	30	
Carbon tetrachloride	ug/L	10	11.3	10.9	113	109	67-136	3	30	
Chlorobenzene	ug/L	10	10.4	10.5	104	105	78-115	1	30	
Chloroethane	ug/L	10	12.3	12.0	123	120	58-137	2	30	
Chloroform	ug/L	10	10.7	10.7	107	107	75-124	.6	30	
Chloromethane	ug/L	10	10.3	10.3	103	103	50-129	.9	30	
cis-1,2-Dichloroethene	ug/L	10	10.8	10.9	108	109	78-126	.7	30	
cis-1,3-Dichloropropene	ug/L	10	10.6	10.6	106	106	78-159	.4	30	
Dibromochloromethane	ug/L	10	10.4	10.6	104	106	81-125	2	30	
Dibromomethane	ug/L	10	10.6	10.6	106	106	75-124	.2	30	
Dichlorodifluoromethane	ug/L	10	8.5	8.2	85	82	30-140	3	30	
Ethylbenzene	ug/L	10	9.8	9.9	98	99	76-124	1	30	
Hexachloro-1,3-butadiene	ug/L	10	10.5	10.5	105	105	55-132	.03	30	
Isopropylbenzene (Cumene)	ug/L	10	10.5	10.5	105	105	73-127	.5	30	
m&p-Xylene	ug/L	20	20.0	20.0	100	100	75-124	.2	30	
Methyl-tert-butyl ether	ug/L	10	7.9	7.7	79	77	72-130	3	30	
Methylene chloride	ug/L	10	10.6	10.1	106	101	69-124	5	30	
n-Butylbenzene	ug/L	10	10.2	10.2	102	102	65-131	.07	30	
n-Propylbenzene	ug/L	10	10.1	10.3	101	103	69-129	2	30	
Naphthalene	ug/L	10	9.0	8.9	90	89	69-135	1	30	
o-Xylene	ug/L	10	9.4	9.7	94	97	76-121	4	30	
p-Isopropyltoluene	ug/L	10	10.4	10.6	104	106	69-133	1	30	
sec-Butylbenzene	ug/L	10	10.4	10.6	104	106	67-132	2	30	
Styrene	ug/L	10	10.5	10.6	105	106	76-121	.8	30	
tert-Butylbenzene	ug/L	10	10.2	10.3	102	103	66-132	1	30	
Tetrachloroethene	ug/L	10	10.8	11.1	108	111	70-127	2	30	
Toluene	ug/L	10	10.6	10.8	106	108	75-124	2	30	

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

LABORATORY CONTROL SAMPLE & LCSD: 1182 1183

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
trans-1,2-Dichloroethene	ug/L	10	10.6	10.4	106	104	72-129	1	30	
trans-1,3-Dichloropropene	ug/L	10	8.9	9.0	89	90	69-122	1	30	
Trichloroethene	ug/L	10	10.5	10.4	105	104	78-124	1	30	
Trichlorofluoromethane	ug/L	10	11.5	10.9	115	109	60-147	5	30	
Vinyl chloride	ug/L	10	10.8	10.5	108	105	56-136	3	30	
Xylene (Total)	ug/L	30	29.4	29.7	98	99	76-123	1	30	
1,2-Dichloroethane-d4 (S)	%				113	108	77-121			
4-Bromofluorobenzene (S)	%				107	109	82-116			
Dibromofluoromethane (S)	%				115	113	86-115			
Toluene-d8 (S)	%				109	110	85-117			

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: OEXT/1053 | Analysis Method: EPA 8082
QC Batch Method: EPA 3510 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 251125001, 251125003

METHOD BLANK: 1339 | Matrix: Water
Associated Lab Samples: 251125001, 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.050	05/14/09 03:04	
PCB-1262 (Aroclor 1262)	ug/L	ND	0.050	05/14/09 14:35	
PCB-1268 (Aroclor 1268)	ug/L	ND	0.050	05/14/09 14:35	
Decachlorobiphenyl (S)	%	110	32-149	05/14/09 14:35	
Decachlorobiphenyl (S)	%	95	32-149	05/14/09 03:04	
Tetrachloro-m-xylene (S)	%	79	10-129	05/14/09 03:04	
Tetrachloro-m-xylene (S)	%	84	10-129	05/14/09 14:35	

LABORATORY CONTROL SAMPLE & LCSD: 1340 1341

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	50	54.4	49.4	109	99	78-117	10	20	
PCB-1221 (Aroclor 1221)	ug/L		ND	ND					20	
PCB-1232 (Aroclor 1232)	ug/L		ND	ND					20	
PCB-1242 (Aroclor 1242)	ug/L		ND	ND					20	
PCB-1248 (Aroclor 1248)	ug/L		ND	ND					20	
PCB-1254 (Aroclor 1254)	ug/L		ND	ND					20	
PCB-1260 (Aroclor 1260)	ug/L	50	61.6	60.7	123	121	53-155	1	20	
Decachlorobiphenyl (S)	%				89	87	32-149			
Tetrachloro-m-xylene (S)	%				69	65	10-129			

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QUALITY CONTROL DATA

Project: Brix-Portland
Pace Project No.: 251125

QC Batch: WET/1051 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 251125001, 251125003

METHOD BLANK: 1361 | Matrix: Water
Associated Lab Samples: 251125001, 251125003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	2.0	05/11/09 12:00	

SAMPLE DUPLICATE: 1362

Parameter	Units	251125001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12.0	14.0	15	20	

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QUALIFIERS

Project: Brix-Portland
Pace Project No.: 251125

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

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LABORATORIES

PASI-S	Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

1n	Surrogate recovery outside control limits (not confirmed by re-analysis). Associated data may be biased low.
B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Brix-Portland
Pace Project No.: 251125

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
251125002	**Outfall A**	EPA 3510	OEXT/1044	EPA 8270	MSSV/1009
251125004	**Outfall B**	EPA 3510	OEXT/1044	EPA 8270	MSSV/1009
251125001	**Outfall A**	EPA 5030B/8260	MSV/1038		
251125001	**Outfall A**	EPA 3510	OEXT/1053	EPA 8082	GCSV/1034
251125003	**Outfall B**	EPA 3510	OEXT/1053	EPA 8082	GCSV/1034
251125001	**Outfall A**	SM 2540D	WET/1051		
251125003	**Outfall B**	SM 2540D	WET/1051		
251125001	**Outfall A**	EPA 3510	OEXT/1057	EPA 8270	MSSV/1010
251125003	**Outfall B**	EPA 3510	OEXT/1057	EPA 8270	MSSV/1010
251125001	**Outfall A**	EPA 3510	OEXT/1068	NWTPH-Dx	GCSV/1039
251125003	**Outfall B**	EPA 3510	OEXT/1068	NWTPH-Dx	GCSV/1039
251125001	**Outfall A**	NWTPH-Gx	GCV/1030		
251125003	**Outfall B**	NWTPH-Gx	GCV/1030		
251125003	**Outfall B**	EPA 5030B/8260	MSV/1049		

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WO# 251125

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1241388

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Hart Crowser, Inc	Report To: Leon Lahiere	Attention: Leon Lahiere
Address: 8910 SW Gemini Dr. Beaverton, OR 97008	Copy To:	Company Name: Hart Crowser, Inc.
		Address: 8910 SW Gemini, Beaverton OR
Email To: leon.lahiere@hartcrowser.com	Purchase Order No.: 15634-00/Task 08	Pace Quote Reference: Seattle-092208
Phone: 971-327-9103 Fax:	Project Name: Brix - Portland	Pace Project Manager: Lisa Domenighini
Requested Due Date/TAT: STD	Project Number: 15634-00/Task 08	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER Plt SW

Site Location STATE: OR

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: PCBs-8082-Low (Y/N)	PAHs-8270SIM low (Y/N)	Phthalates-Low (Y/N)	NWTPH-Dx (Y/N)	NWTPH-Gx (Y/N)	VOCs 8260 (Y/N)	TSS 1602 (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Outfall A	WT	G	5-4-09	1600	5-4-09	1615	14	12									X	X	X	X	X	X	X		
2	Outfall B	WT	G	5-4-09	1525	5-4-09	1535	15	13									X	X	X	X	X	X	X		
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	5-5-09	1030	D Buchanan 907 PCS	5-5-9	1045	
	Hart Crowser			[signature] Pace	5/6/09	1030	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brian Block

SIGNATURE of SAMPLER: [signature] For

DATE Signed (MM/DD/YY): 5-5-09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Instructions for completing Chain of Custody (COC)

1. **Section A and B:** Complete all Client information at top of sheet: company name, address, phone, fax, contact (the person to contact if there are questions, and who will receive the final report.), e-mail address (if available), PO#, Project Name and/or Project Number as you would like to see it appear on the report.

2. **Section C:** Invoice Information: Billing information is included in this section. This information should include the name and address of the person receiving the invoice.

3. Quote Reference should be completed if a quotation was provided by Pace Analytical. The Project Manager, and Profile No. will be completed by Pace Analytical Services.

4. **Site Location:** A separate COC must be filled out for each day of sample collection. Record the two letter postal code for the US state in which the samples were collected.

5. **Regulatory Agency:** List the program that is guiding the work to ensure proper regulations are followed.

6. **Section D:** Complete a Sample Description in the "SAMPLE ID' section as you would like it to appear on the laboratory report. The following information should also be included: the sample matrix, sample type (G (grab) or C (composite). When collecting a composite, the start time and end time should be documented in the respective boxes. The collection time for a grab (G) sample should be entered in the boxes marked 'Composite End/Grab'). Sample temp at collection (if required by state), the total number of containers, and preservative used.

7. Mark if the sample was filtered in the field by marking Y or N in 'Filtered' row by the Analysis requested.

8. Requested Analysis: List the required analysis and methods on the lines provided and place a check in the column for the samples requiring the analysis. Additional comments should be referenced in the bottom left hand corner or include attachments for extended lists of parameters.

9. The sampler should print their name in the space provided and sign their name followed by the date of the sampling event at the bottom of the COC in the spaces designated for 'SAMPLER NAME AND SIGNATURE'.

10. When relinquishing custody of the samples to a representative of the laboratory or other organization, indicate the Item Numbers of those samples being transferred; sign relinquished by, date and time, and include your affiliation.

***Important Note:**

Standard Turnaround Time is 2 Weeks/10 business days. Results will be delivered by end of business on the date due unless other arrangements have been made with your project manager.

Special Project Requirements such as Low Level Detection Limits or level of QC reported must be included on the chain of custody in the Additional Comments section.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Hart-Crowser Project # 251125

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other PCS

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other Zip lock bags

Thermometer Used Horiba-132013 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature AAF 725 4.3,5.3,5.5 AAE 955 5.8,6.2,6.1 Biological Tissue Is Frozen: Yes No

Date and Initials of person examining contents: 5/6/09 PB

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1. 1241388
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: Water				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes	☐No		Initial when completed ____ Lot # of added preservative ____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503)906-9200

TestAmerica Job ID: 250-3451-1
TestAmerica Sample Delivery Group: 15634.00
Client Project/Site: Brix Maritime

For:
Hart Crowser, Inc.
8910 SW Gemini Drive
Beaverton, Oregon 97008

Attn: Leon Lahiere

Vanessa Frahs

Authorized for release by:
6/13/2012 2:59:50 PM

Vanessa Frahs
Project Manager I
vanessa.frahs@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-3451-1	Outfall A	Water	06/04/12 11:05	06/04/12 14:45
250-3451-2	Outfall B	Water	06/04/12 10:26	06/04/12 14:45

Case Narrative

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

Job ID: 250-3451-1

Laboratory: TestAmerica Portland

Narrative

Receipt
The samples were received on 6/4/2012 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1º C.

Except:

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C SIM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 250-6049/2-A), (LCSD 250-6049/3-A), (MB 250-6049/1-A), Outfall A (250-3451-1), Outfall B (250-3451-2). Percent recoveries are based on the amount spiked. Dilution of batch QC and samples was necessary in order to report surrogates within calibration range. Target analytes are reported from the undiluted analysis.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: Outfall A
Date Collected: 06/04/12 11:05
Date Received: 06/04/12 14:45

Lab Sample ID: 250-3451-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25		ug/L			06/07/12 15:45	1
Benzene	ND		1.0		ug/L			06/07/12 15:45	1
Bromobenzene	ND		1.0		ug/L			06/07/12 15:45	1
Bromochloromethane	ND		5.0		ug/L			06/07/12 15:45	1
Bromodichloromethane	ND		1.0		ug/L			06/07/12 15:45	1
Bromoform	ND		5.0		ug/L			06/07/12 15:45	1
Bromomethane	ND		5.0		ug/L			06/07/12 15:45	1
2-Butanone (MEK)	ND		10		ug/L			06/07/12 15:45	1
n-Butylbenzene	ND		5.0		ug/L			06/07/12 15:45	1
sec-Butylbenzene	ND		1.0		ug/L			06/07/12 15:45	1
tert-Butylbenzene	ND		1.0		ug/L			06/07/12 15:45	1
Carbon disulfide	ND		10		ug/L			06/07/12 15:45	1
Carbon tetrachloride	ND		1.0		ug/L			06/07/12 15:45	1
Chlorobenzene	ND		1.0		ug/L			06/07/12 15:45	1
Chloroethane	ND		1.0		ug/L			06/07/12 15:45	1
Chloroform	ND		1.0		ug/L			06/07/12 15:45	1
Chloromethane	ND		5.0		ug/L			06/07/12 15:45	1
2-Chlorotoluene	ND		1.0		ug/L			06/07/12 15:45	1
4-Chlorotoluene	ND		1.0		ug/L			06/07/12 15:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			06/07/12 15:45	1
Dibromochloromethane	ND		1.0		ug/L			06/07/12 15:45	1
1,2-Dibromoethane	ND		1.0		ug/L			06/07/12 15:45	1
Dibromomethane	ND		5.0		ug/L			06/07/12 15:45	1
1,2-Dichloroethane	ND		1.0		ug/L			06/07/12 15:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			06/07/12 15:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/07/12 15:45	1
Dichlorodifluoromethane	ND		5.0		ug/L			06/07/12 15:45	1
1,1-Dichloroethane	ND		1.0		ug/L			06/07/12 15:45	1
1,1-Dichloroethene	ND		1.0		ug/L			06/07/12 15:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/07/12 15:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/07/12 15:45	1
1,2-Dichloropropane	ND		1.0		ug/L			06/07/12 15:45	1
1,3-Dichloropropane	ND		1.0		ug/L			06/07/12 15:45	1
2,2-Dichloropropane	ND		1.0		ug/L			06/07/12 15:45	1
1,1-Dichloropropene	ND		1.0		ug/L			06/07/12 15:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/07/12 15:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/07/12 15:45	1
Ethylbenzene	ND		1.0		ug/L			06/07/12 15:45	1
Hexachlorobutadiene	ND		4.0		ug/L			06/07/12 15:45	1
2-Hexanone	ND		15		ug/L			06/07/12 15:45	1
Isopropylbenzene	ND		2.0		ug/L			06/07/12 15:45	1
p-Isopropyltoluene	ND		2.0		ug/L			06/07/12 15:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/07/12 15:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			06/07/12 15:45	1
Methylene Chloride	ND		5.0		ug/L			06/07/12 15:45	1
Naphthalene	ND		5.0		ug/L			06/07/12 15:45	1
N-Propylbenzene	ND		1.0		ug/L			06/07/12 15:45	1
Styrene	ND		1.0		ug/L			06/07/12 15:45	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/07/12 15:45	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/07/12 15:45	1
Tetrachloroethene	ND		1.0		ug/L			06/07/12 15:45	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Outfall A — **Lab Sample ID: 250-3451-1**
Date Collected: 06/04/12 11:05 — **Matrix: Water**
Date Received: 06/04/12 14:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			06/07/12 15:45	1
1,2,3-Trichlorobenzene	ND		5.0		ug/L			06/07/12 15:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/07/12 15:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/07/12 15:45	1
1,1,2-Trichloroethane	ND		5.0		ug/L			06/07/12 15:45	1
Trichloroethene	ND		1.0		ug/L			06/07/12 15:45	1
Trichlorofluoromethane	ND		1.0		ug/L			06/07/12 15:45	1
1,2,3-Trichloropropane	ND		5.0		ug/L			06/07/12 15:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			06/07/12 15:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			06/07/12 15:45	1
Vinyl chloride	ND		1.0		ug/L			06/07/12 15:45	1
m,p-Xylene	ND		2.0		ug/L			06/07/12 15:45	1
o-Xylene	ND		1.0		ug/L			06/07/12 15:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/07/12 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*		*06/07/12 15:45*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/07/12 15:45*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*06/07/12 15:45*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/07/12 15:45*	*1*

Client Sample ID: Outfall B — **Lab Sample ID: 250-3451-2**
Date Collected: 06/04/12 10:26 — **Matrix: Water**
Date Received: 06/04/12 14:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25		ug/L			06/07/12 16:12	1
Benzene	ND		1.0		ug/L			06/07/12 16:12	1
Bromobenzene	ND		1.0		ug/L			06/07/12 16:12	1
Bromochloromethane	ND		5.0		ug/L			06/07/12 16:12	1
Bromodichloromethane	ND		1.0		ug/L			06/07/12 16:12	1
Bromoform	ND		5.0		ug/L			06/07/12 16:12	1
Bromomethane	ND		5.0		ug/L			06/07/12 16:12	1
2-Butanone (MEK)	ND		10		ug/L			06/07/12 16:12	1
n-Butylbenzene	ND		5.0		ug/L			06/07/12 16:12	1
sec-Butylbenzene	ND		1.0		ug/L			06/07/12 16:12	1
tert-Butylbenzene	ND		1.0		ug/L			06/07/12 16:12	1
Carbon disulfide	ND		10		ug/L			06/07/12 16:12	1
Carbon tetrachloride	ND		1.0		ug/L			06/07/12 16:12	1
Chlorobenzene	ND		1.0		ug/L			06/07/12 16:12	1
Chloroethane	ND		1.0		ug/L			06/07/12 16:12	1
Chloroform	ND		1.0		ug/L			06/07/12 16:12	1
Chloromethane	ND		5.0		ug/L			06/07/12 16:12	1
2-Chlorotoluene	ND		1.0		ug/L			06/07/12 16:12	1
4-Chlorotoluene	ND		1.0		ug/L			06/07/12 16:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			06/07/12 16:12	1
Dibromochloromethane	ND		1.0		ug/L			06/07/12 16:12	1
1,2-Dibromoethane	ND		1.0		ug/L			06/07/12 16:12	1
Dibromomethane	ND		5.0		ug/L			06/07/12 16:12	1
1,2-Dichloroethane	ND		1.0		ug/L			06/07/12 16:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			06/07/12 16:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/07/12 16:12	1

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: Outfall B
Date Collected: 06/04/12 10:26
Date Received: 06/04/12 14:45

Lab Sample ID: 250-3451-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		5.0		ug/L			06/07/12 16:12	1
1,1-Dichloroethane	ND		1.0		ug/L			06/07/12 16:12	1
1,1-Dichloroethene	ND		1.0		ug/L			06/07/12 16:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/07/12 16:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/07/12 16:12	1
1,2-Dichloropropane	ND		1.0		ug/L			06/07/12 16:12	1
1,3-Dichloropropane	ND		1.0		ug/L			06/07/12 16:12	1
2,2-Dichloropropane	ND		1.0		ug/L			06/07/12 16:12	1
1,1-Dichloropropene	ND		1.0		ug/L			06/07/12 16:12	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/07/12 16:12	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/07/12 16:12	1
Ethylbenzene	ND		1.0		ug/L			06/07/12 16:12	1
Hexachlorobutadiene	ND		4.0		ug/L			06/07/12 16:12	1
2-Hexanone	ND		15		ug/L			06/07/12 16:12	1
Isopropylbenzene	ND		2.0		ug/L			06/07/12 16:12	1
p-Isopropyltoluene	ND		2.0		ug/L			06/07/12 16:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/07/12 16:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			06/07/12 16:12	1
Methylene Chloride	ND		5.0		ug/L			06/07/12 16:12	1
Naphthalene	ND		5.0		ug/L			06/07/12 16:12	1
N-Propylbenzene	ND		1.0		ug/L			06/07/12 16:12	1
Styrene	ND		1.0		ug/L			06/07/12 16:12	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/07/12 16:12	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/07/12 16:12	1
Tetrachloroethene	ND		1.0		ug/L			06/07/12 16:12	1
Toluene	ND		1.0		ug/L			06/07/12 16:12	1
1,2,3-Trichlorobenzene	ND		5.0		ug/L			06/07/12 16:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/07/12 16:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/07/12 16:12	1
1,1,2-Trichloroethane	ND		5.0		ug/L			06/07/12 16:12	1
Trichloroethene	ND		1.0		ug/L			06/07/12 16:12	1
Trichlorofluoromethane	ND		1.0		ug/L			06/07/12 16:12	1
1,2,3-Trichloropropane	ND		5.0		ug/L			06/07/12 16:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			06/07/12 16:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			06/07/12 16:12	1
Vinyl chloride	ND		1.0		ug/L			06/07/12 16:12	1
m,p-Xylene	ND		2.0		ug/L			06/07/12 16:12	1
o-Xylene	ND		1.0		ug/L			06/07/12 16:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/07/12 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*06/07/12 16:12*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/07/12 16:12*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*06/07/12 16:12*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/07/12 16:12*	*1*

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: Outfall A
Date Collected: 06/04/12 11:05
Date Received: 06/04/12 14:45

Lab Sample ID: 250-3451-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:35	1
Butyl benzyl phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:35	1
Diethyl phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:35	1
Dimethyl phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:35	1
Di-n-butyl phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:35	1
Di-n-octyl phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl-d14 (Surr)	*84*		*10 - 150*	*06/07/12 15:56*	*06/12/12 19:30*	*20*
2-Fluorobiphenyl (Surr)	*72*		*10 - 150*	*06/07/12 15:56*	*06/12/12 19:30*	*20*

Client Sample ID: Outfall B
Date Collected: 06/04/12 10:26
Date Received: 06/04/12 14:45

Lab Sample ID: 250-3451-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:59	1
Butyl benzyl phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:59	1
Diethyl phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:59	1
Dimethyl phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:59	1
Di-n-butyl phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:59	1
Di-n-octyl phthalate	ND		0.95		ug/L		06/07/12 15:56	06/12/12 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl-d14 (Surr)	*94*		*10 - 150*	*06/07/12 15:56*	*06/12/12 19:54*	*20*
2-Fluorobiphenyl (Surr)	*78*		*10 - 150*	*06/07/12 15:56*	*06/12/12 19:54*	*20*

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: Outfall A
Date Collected: 06/04/12 11:05
Date Received: 06/04/12 14:45

Lab Sample ID: 250-3451-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		06/08/12 14:41	06/11/12 13:52	1
PCB-1221	ND		0.20		ug/L		06/08/12 14:41	06/11/12 13:52	1
PCB-1232	ND		0.10		ug/L		06/08/12 14:41	06/11/12 13:52	1
PCB-1242	ND		0.10		ug/L		06/08/12 14:41	06/11/12 13:52	1
PCB-1248	ND		0.10		ug/L		06/08/12 14:41	06/11/12 13:52	1
PCB-1254	ND		0.10		ug/L		06/08/12 14:41	06/11/12 13:52	1
PCB-1260	ND		0.10		ug/L		06/08/12 14:41	06/11/12 13:52	1
PCB-1262	ND		0.10		ug/L		06/08/12 14:41	06/11/12 13:52	1
PCB-1268	ND		0.10		ug/L		06/08/12 14:41	06/11/12 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*10 - 130*	*06/08/12 14:41*	*06/11/12 13:52*	*1*

Client Sample ID: Outfall B
Date Collected: 06/04/12 10:26
Date Received: 06/04/12 14:45

Lab Sample ID: 250-3451-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:14	1
PCB-1221	ND		0.20		ug/L		06/08/12 14:41	06/11/12 14:14	1
PCB-1232	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:14	1
PCB-1242	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:14	1
PCB-1248	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:14	1
PCB-1254	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:14	1
PCB-1260	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:14	1
PCB-1262	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:14	1
PCB-1268	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*10 - 130*	*06/08/12 14:41*	*06/11/12 14:14*	*1*

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

Method: 6020 - Metals (ICP/MS)

Client Sample ID: Outfall A
Date Collected: 06/04/12 11:05
Date Received: 06/04/12 14:45

Lab Sample ID: 250-3451-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.029		0.0020		mg/L		06/05/12 09:57	06/05/12 18:03	1
Lead	0.0053		0.0010		mg/L		06/05/12 09:57	06/05/12 18:03	1
Zinc	0.081		0.010		mg/L		06/05/12 09:57	06/05/12 18:03	1

Client Sample ID: Outfall B
Date Collected: 06/04/12 10:26
Date Received: 06/04/12 14:45

Lab Sample ID: 250-3451-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0064		0.0020		mg/L		06/05/12 09:57	06/05/12 18:09	1
Lead	ND		0.0010		mg/L		06/05/12 09:57	06/05/12 18:09	1
Zinc	0.085		0.010		mg/L		06/05/12 09:57	06/05/12 18:09	1

Client Sample Results

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

General Chemistry

Client Sample ID: Outfall A — **Lab Sample ID: 250-3451-1**
Date Collected: 06/04/12 11:05 — **Matrix: Water**
Date Received: 06/04/12 14:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	**30**		10		mg/L			06/07/12 15:58	1

Client Sample ID: Outfall B — **Lab Sample ID: 250-3451-2**
Date Collected: 06/04/12 10:26 — **Matrix: Water**
Date Received: 06/04/12 14:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		10		mg/L			06/07/12 15:58	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 250-6035/7
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25		ug/L			06/07/12 10:54	1
Benzene	ND		1.0		ug/L			06/07/12 10:54	1
Bromobenzene	ND		1.0		ug/L			06/07/12 10:54	1
Bromochloromethane	ND		5.0		ug/L			06/07/12 10:54	1
Bromodichloromethane	ND		1.0		ug/L			06/07/12 10:54	1
Bromoform	ND		5.0		ug/L			06/07/12 10:54	1
Bromomethane	ND		5.0		ug/L			06/07/12 10:54	1
2-Butanone (MEK)	ND		10		ug/L			06/07/12 10:54	1
n-Butylbenzene	ND		5.0		ug/L			06/07/12 10:54	1
sec-Butylbenzene	ND		1.0		ug/L			06/07/12 10:54	1
tert-Butylbenzene	ND		1.0		ug/L			06/07/12 10:54	1
Carbon disulfide	ND		10		ug/L			06/07/12 10:54	1
Carbon tetrachloride	ND		1.0		ug/L			06/07/12 10:54	1
Chlorobenzene	ND		1.0		ug/L			06/07/12 10:54	1
Chloroethane	ND		1.0		ug/L			06/07/12 10:54	1
Chloroform	ND		1.0		ug/L			06/07/12 10:54	1
Chloromethane	ND		5.0		ug/L			06/07/12 10:54	1
2-Chlorotoluene	ND		1.0		ug/L			06/07/12 10:54	1
4-Chlorotoluene	ND		1.0		ug/L			06/07/12 10:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			06/07/12 10:54	1
Dibromochloromethane	ND		1.0		ug/L			06/07/12 10:54	1
1,2-Dibromoethane	ND		1.0		ug/L			06/07/12 10:54	1
Dibromomethane	ND		5.0		ug/L			06/07/12 10:54	1
1,2-Dichloroethane	ND		1.0		ug/L			06/07/12 10:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			06/07/12 10:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/07/12 10:54	1
Dichlorodifluoromethane	ND		5.0		ug/L			06/07/12 10:54	1
1,1-Dichloroethane	ND		1.0		ug/L			06/07/12 10:54	1
1,1-Dichloroethene	ND		1.0		ug/L			06/07/12 10:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/07/12 10:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/07/12 10:54	1
1,2-Dichloropropane	ND		1.0		ug/L			06/07/12 10:54	1
1,3-Dichloropropane	ND		1.0		ug/L			06/07/12 10:54	1
2,2-Dichloropropane	ND		1.0		ug/L			06/07/12 10:54	1
1,1-Dichloropropene	ND		1.0		ug/L			06/07/12 10:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/07/12 10:54	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/07/12 10:54	1
Ethylbenzene	ND		1.0		ug/L			06/07/12 10:54	1
Hexachlorobutadiene	ND		4.0		ug/L			06/07/12 10:54	1
2-Hexanone	ND		15		ug/L			06/07/12 10:54	1
Isopropylbenzene	ND		2.0		ug/L			06/07/12 10:54	1
p-Isopropyltoluene	ND		2.0		ug/L			06/07/12 10:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			06/07/12 10:54	1
Methyl tert-butyl ether	ND		1.0		ug/L			06/07/12 10:54	1
Methylene Chloride	ND		5.0		ug/L			06/07/12 10:54	1
Naphthalene	ND		5.0		ug/L			06/07/12 10:54	1
N-Propylbenzene	ND		1.0		ug/L			06/07/12 10:54	1
Styrene	ND		1.0		ug/L			06/07/12 10:54	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/07/12 10:54	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 250-6035/7
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			06/07/12 10:54	1
Tetrachloroethene	ND		1.0		ug/L			06/07/12 10:54	1
Toluene	ND		1.0		ug/L			06/07/12 10:54	1
1,2,3-Trichlorobenzene	ND		5.0		ug/L			06/07/12 10:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/07/12 10:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/07/12 10:54	1
1,1,2-Trichloroethane	ND		5.0		ug/L			06/07/12 10:54	1
Trichloroethene	ND		1.0		ug/L			06/07/12 10:54	1
Trichlorofluoromethane	ND		1.0		ug/L			06/07/12 10:54	1
1,2,3-Trichloropropane	ND		5.0		ug/L			06/07/12 10:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			06/07/12 10:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			06/07/12 10:54	1
Vinyl chloride	ND		1.0		ug/L			06/07/12 10:54	1
m,p-Xylene	ND		2.0		ug/L			06/07/12 10:54	1
o-Xylene	ND		1.0		ug/L			06/07/12 10:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/07/12 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*		*06/07/12 10:54*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/07/12 10:54*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*06/07/12 10:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/07/12 10:54*	*1*

Lab Sample ID: LCS 250-6035/4
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	113		ug/L		113	55 - 145
Benzene	20.0	18.2		ug/L		91	80 - 120
Bromobenzene	20.0	18.8		ug/L		94	75 - 120
Bromochloromethane	20.0	18.6		ug/L		93	75 - 125
Bromodichloromethane	20.0	18.8		ug/L		94	80 - 130
Bromoform	20.0	16.6		ug/L		83	55 - 135
Bromomethane	20.0	22.2		ug/L		111	35 - 150
2-Butanone (MEK)	100	106		ug/L		106	70 - 140
n-Butylbenzene	20.0	19.0		ug/L		95	75 - 130
sec-Butylbenzene	20.0	19.0		ug/L		95	60 - 130
tert-Butylbenzene	20.0	19.6		ug/L		98	70 - 130
Carbon disulfide	40.0	41.5		ug/L		104	60 - 120
Carbon tetrachloride	20.0	17.5		ug/L		88	70 - 135
Chlorobenzene	20.0	18.6		ug/L		93	80 - 125
Chloroethane	20.0	21.7		ug/L		109	75 - 125
Chloroform	20.0	19.4		ug/L		97	80 - 120
Chloromethane	20.0	22.2		ug/L		111	45 - 150
2-Chlorotoluene	20.0	19.3		ug/L		97	70 - 125
4-Chlorotoluene	20.0	19.3		ug/L		96	75 - 125
1,2-Dibromo-3-Chloropropane	20.0	18.8		ug/L		94	70 - 135
Dibromochloromethane	20.0	17.9		ug/L		90	65 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 250-6035/4
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	20.0	18.4		ug/L		92	80 - 125
Dibromomethane	20.0	18.5		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	18.9		ug/L		95	75 - 125
1,3-Dichlorobenzene	20.0	18.5		ug/L		92	75 - 125
1,4-Dichlorobenzene	20.0	18.7		ug/L		94	70 - 120
Dichlorodifluoromethane	20.0	22.9		ug/L		114	45 - 140
1,1-Dichloroethane	20.0	18.5		ug/L		92	80 - 120
1,1-Dichloroethene	20.0	16.9		ug/L		84	75 - 120
cis-1,2-Dichloroethene	20.0	17.5		ug/L		88	80 - 120
trans-1,2-Dichloroethene	20.0	17.0		ug/L		85	80 - 120
1,2-Dichloropropane	20.0	19.4		ug/L		97	80 - 130
1,3-Dichloropropane	20.0	19.5		ug/L		98	80 - 120
2,2-Dichloropropane	20.0	18.9		ug/L		94	60 - 145
1,1-Dichloropropene	20.0	18.1		ug/L		91	80 - 120
cis-1,3-Dichloropropene	20.0	18.9		ug/L		94	80 - 125
trans-1,3-Dichloropropene	20.0	18.6		ug/L		93	80 - 130
Ethylbenzene	20.0	18.8		ug/L		94	80 - 120
Hexachlorobutadiene	20.0	19.5		ug/L		98	60 - 150
2-Hexanone	100	98.8		ug/L		99	70 - 140
Isopropylbenzene	20.0	19.2		ug/L		96	75 - 125
p-Isopropyltoluene	20.0	19.2		ug/L		96	65 - 130
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	70 - 135
Methyl tert-butyl ether	20.0	21.2		ug/L		106	80 - 130
Methylene Chloride	20.0	18.2		ug/L		91	80 - 120
Naphthalene	20.0	16.8		ug/L		84	70 - 150
N-Propylbenzene	20.0	18.9		ug/L		95	75 - 130
Styrene	20.0	18.0		ug/L		90	70 - 130
1,1,1,2-Tetrachloroethane	20.0	19.0		ug/L		95	65 - 140
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		102	75 - 130
Tetrachloroethene	20.0	17.9		ug/L		89	80 - 125
Toluene	20.0	18.2		ug/L		91	80 - 125
1,2,3-Trichlorobenzene	20.0	18.2		ug/L		91	65 - 140
1,2,4-Trichlorobenzene	20.0	17.4		ug/L		87	75 - 130
1,1,1-Trichloroethane	20.0	18.7		ug/L		94	75 - 135
1,1,2-Trichloroethane	20.0	19.1		ug/L		95	80 - 125
Trichloroethene	20.0	18.7		ug/L		94	80 - 135
Trichlorofluoromethane	20.0	22.2		ug/L		111	75 - 140
1,2,3-Trichloropropane	20.0	20.4		ug/L		102	75 - 125
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	20.0	19.3		ug/L		96	75 - 135
Vinyl chloride	20.0	22.2		ug/L		111	75 - 135
m,p-Xylene	40.0	37.4		ug/L		93	70 - 130
o-Xylene	20.0	18.8		ug/L		94	75 - 125
1,2-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 250-6035/4
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 250-6035/5
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	117		ug/L		117	55 - 145	4	25
Benzene	20.0	20.6		ug/L		103	80 - 120	13	25
Bromobenzene	20.0	19.9		ug/L		100	75 - 120	6	25
Bromochloromethane	20.0	20.6		ug/L		103	75 - 125	10	25
Bromodichloromethane	20.0	19.9		ug/L		100	80 - 130	6	25
Bromoform	20.0	17.7		ug/L		88	55 - 135	6	25
Bromomethane	20.0	21.8		ug/L		109	35 - 150	2	25
2-Butanone (MEK)	100	110		ug/L		110	70 - 140	3	25
n-Butylbenzene	20.0	20.0		ug/L		100	75 - 130	5	25
sec-Butylbenzene	20.0	20.0		ug/L		100	60 - 130	5	25
tert-Butylbenzene	20.0	20.5		ug/L		103	70 - 130	5	25
Carbon disulfide	40.0	39.2		ug/L		98	60 - 120	6	25
Carbon tetrachloride	20.0	20.3		ug/L		101	70 - 135	15	25
Chlorobenzene	20.0	20.2		ug/L		101	80 - 125	8	25
Chloroethane	20.0	21.2		ug/L		106	75 - 125	2	25
Chloroform	20.0	21.2		ug/L		106	80 - 120	9	25
Chloromethane	20.0	21.9		ug/L		109	45 - 150	1	25
2-Chlorotoluene	20.0	20.2		ug/L		101	70 - 125	4	25
4-Chlorotoluene	20.0	19.8		ug/L		99	75 - 125	3	25
1,2-Dibromo-3-Chloropropane	20.0	20.9		ug/L		105	70 - 135	10	25
Dibromochloromethane	20.0	19.0		ug/L		95	65 - 140	6	25
1,2-Dibromoethane	20.0	19.7		ug/L		99	80 - 125	7	
Dibromomethane	20.0	19.9		ug/L		100	80 - 120	7	25
1,2-Dichloroethane	20.0	20.5		ug/L		102	75 - 125	8	25
1,3-Dichlorobenzene	20.0	19.3		ug/L		96	75 - 125	4	25
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	70 - 120	5	25
Dichlorodifluoromethane	20.0	22.3		ug/L		111	45 - 140	3	25
1,1-Dichloroethane	20.0	21.4		ug/L		107	80 - 120	15	25
1,1-Dichloroethene	20.0	20.9		ug/L		105	75 - 120	21	25
cis-1,2-Dichloroethene	20.0	19.7		ug/L		99	80 - 120	12	25
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	80 - 120	16	25
1,2-Dichloropropane	20.0	21.0		ug/L		105	80 - 130	8	25
1,3-Dichloropropane	20.0	20.8		ug/L		104	80 - 120	6	25
2,2-Dichloropropane	20.0	21.3		ug/L		106	60 - 145	12	25
1,1-Dichloropropene	20.0	20.7		ug/L		103	80 - 120	13	25
cis-1,3-Dichloropropene	20.0	20.2		ug/L		101	80 - 125	7	25
trans-1,3-Dichloropropene	20.0	19.7		ug/L		99	80 - 130	6	25
Ethylbenzene	20.0	20.2		ug/L		101	80 - 120	7	25
Hexachlorobutadiene	20.0	20.3		ug/L		102	60 - 150	4	25
2-Hexanone	100	103		ug/L		103	70 - 140	4	25
Isopropylbenzene	20.0	20.5		ug/L		103	75 - 125	7	25
p-Isopropyltoluene	20.0	19.8		ug/L		99	65 - 130	3	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 250-6035/5
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	100	106		ug/L		106	70 - 135	4	25
Methyl tert-butyl ether	20.0	20.4		ug/L		102	80 - 130	4	25
Methylene Chloride	20.0	21.2		ug/L		106	80 - 120	15	25
Naphthalene	20.0	19.3		ug/L		97	70 - 150	14	25
N-Propylbenzene	20.0	20.2		ug/L		101	75 - 130	6	25
Styrene	20.0	19.3		ug/L		96	70 - 130	7	25
1,1,1,2-Tetrachloroethane	20.0	19.5		ug/L		97	65 - 140	3	25
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/L		107	75 - 130	5	25
Tetrachloroethene	20.0	19.7		ug/L		98	80 - 125	10	25
Toluene	20.0	20.1		ug/L		101	80 - 125	10	25
1,2,3-Trichlorobenzene	20.0	20.0		ug/L		100	65 - 140	10	25
1,2,4-Trichlorobenzene	20.0	18.7		ug/L		93	75 - 130	7	25
1,1,1-Trichloroethane	20.0	21.4		ug/L		107	75 - 135	13	25
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	80 - 125	7	25
Trichloroethene	20.0	20.4		ug/L		102	80 - 135	9	25
Trichlorofluoromethane	20.0	21.9		ug/L		110	75 - 140	1	25
1,2,3-Trichloropropane	20.0	21.1		ug/L		106	75 - 125	3	25
1,2,4-Trimethylbenzene	20.0	20.0		ug/L		100	70 - 130	4	25
1,3,5-Trimethylbenzene	20.0	20.2		ug/L		101	75 - 135	5	25
Vinyl chloride	20.0	21.4		ug/L		107	75 - 135	4	25
m,p-Xylene	40.0	40.1		ug/L		100	70 - 130	7	25
o-Xylene	20.0	20.2		ug/L		101	75 - 125	7	25
1,2-Dichlorobenzene	20.0	21.1		ug/L		106	80 - 120	7	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 250-3451-2 MS
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Outfall B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		100	112		ug/L		112	55 - 125
Benzene	ND		20.0	21.3		ug/L		106	80 - 125
Bromobenzene	ND		20.0	22.3		ug/L		111	80 - 125
Bromochloromethane	ND		20.0	22.2		ug/L		111	80 - 130
Bromodichloromethane	ND		20.0	23.0		ug/L		115	80 - 135
Bromoform	ND		20.0	19.9		ug/L		99	65 - 150
Bromomethane	ND		20.0	22.5		ug/L		113	30 - 150
2-Butanone (MEK)	ND		100	105		ug/L		105	70 - 145
n-Butylbenzene	ND		20.0	20.4		ug/L		102	70 - 140
sec-Butylbenzene	ND		20.0	21.5		ug/L		108	70 - 135
tert-Butylbenzene	ND		20.0	22.2		ug/L		111	70 - 135
Carbon disulfide	ND		40.0	42.0		ug/L		105	40 - 150
Carbon tetrachloride	ND		20.0	21.0		ug/L		105	75 - 130
Chlorobenzene	ND		20.0	23.1		ug/L		115	70 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 250-3451-2 MS
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Outfall B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	ND		20.0	21.6		ug/L		108	75 - 130
Chloroform	ND		20.0	24.1		ug/L		121	80 - 125
Chloromethane	ND		20.0	22.6		ug/L		113	40 - 150
2-Chlorotoluene	ND		20.0	22.2		ug/L		111	80 - 120
4-Chlorotoluene	ND		20.0	22.2		ug/L		111	80 - 125
1,2-Dibromo-3-Chloropropane	ND		20.0	22.3		ug/L		112	55 - 145
Dibromochloromethane	ND		20.0	22.1		ug/L		110	80 - 130
1,2-Dibromoethane	ND		20.0	22.9		ug/L		114	80 - 130
Dibromomethane	ND		20.0	23.1		ug/L		115	75 - 135
1,2-Dichloroethane	ND		20.0	23.2		ug/L		116	80 - 125
1,3-Dichlorobenzene	ND		20.0	21.6		ug/L		108	80 - 125
1,4-Dichlorobenzene	ND		20.0	21.6		ug/L		108	80 - 120
Dichlorodifluoromethane	ND		20.0	22.1		ug/L		110	60 - 135
1,1-Dichloroethane	ND		20.0	22.8		ug/L		114	80 - 125
1,1-Dichloroethene	ND		20.0	21.4		ug/L		107	75 - 130
cis-1,2-Dichloroethene	ND		20.0	21.8		ug/L		109	75 - 140
trans-1,2-Dichloroethene	ND		20.0	21.0		ug/L		105	80 - 120
1,2-Dichloropropane	ND		20.0	23.0		ug/L		115	80 - 120
1,3-Dichloropropane	ND		20.0	23.9		ug/L		120	80 - 135
2,2-Dichloropropane	ND		20.0	22.4		ug/L		112	70 - 145
1,1-Dichloropropene	ND		20.0	21.5		ug/L		108	80 - 125
cis-1,3-Dichloropropene	ND		20.0	22.7		ug/L		113	80 - 130
trans-1,3-Dichloropropene	ND		20.0	22.1		ug/L		111	80 - 135
Ethylbenzene	ND		20.0	21.8		ug/L		109	80 - 125
Hexachlorobutadiene	ND		20.0	20.2		ug/L		101	45 - 150
2-Hexanone	ND		100	98.0		ug/L		98	60 - 150
Isopropylbenzene	ND		20.0	22.1		ug/L		110	80 - 130
p-Isopropyltoluene	ND		20.0	21.6		ug/L		108	70 - 140
4-Methyl-2-pentanone (MIBK)	ND		100	100		ug/L		100	55 - 150
Methyl tert-butyl ether	ND		20.0	21.1		ug/L		106	80 - 130
Methylene Chloride	ND		20.0	22.6		ug/L		113	80 - 120
Naphthalene	ND		20.0	18.7		ug/L		94	65 - 150
N-Propylbenzene	ND		20.0	21.6		ug/L		108	70 - 135
Styrene	ND		20.0	21.5		ug/L		107	45 - 150
1,1,1,2-Tetrachloroethane	ND		20.0	22.7		ug/L		113	80 - 130
1,1,2,2-Tetrachloroethane	ND		20.0	25.1		ug/L		125	75 - 150
Tetrachloroethene	ND		20.0	21.2		ug/L		106	80 - 125
Toluene	ND		20.0	21.9		ug/L		109	75 - 135
1,2,3-Trichlorobenzene	ND		20.0	19.1		ug/L		95	70 - 150
1,2,4-Trichlorobenzene	ND		20.0	19.0		ug/L		95	70 - 150
1,1,1-Trichloroethane	ND		20.0	22.4		ug/L		112	80 - 130
1,1,2-Trichloroethane	ND		20.0	24.0		ug/L		120	80 - 130
Trichloroethene	ND		20.0	22.2		ug/L		111	65 - 130
Trichlorofluoromethane	ND		20.0	22.1		ug/L		111	75 - 130
1,2,3-Trichloropropane	ND		20.0	24.3		ug/L		122	80 - 135
1,2,4-Trimethylbenzene	ND		20.0	22.3		ug/L		112	80 - 140
1,3,5-Trimethylbenzene	ND		20.0	22.1		ug/L		111	70 - 145
Vinyl chloride	ND		20.0	22.0		ug/L		110	70 - 135
m,p-Xylene	ND		40.0	42.7		ug/L		107	75 - 135
o-Xylene	ND		20.0	22.0		ug/L		110	80 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 250-3451-2 MS
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Outfall B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		20.0	22.3		ug/L		112	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 250-3451-2 MSD
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Outfall B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		100	103		ug/L		103	55 - 125	8	25
Benzene	ND		20.0	21.0		ug/L		105	80 - 125	1	25
Bromobenzene	ND		20.0	21.6		ug/L		108	80 - 125	3	25
Bromochloromethane	ND		20.0	22.4		ug/L		112	80 - 130	1	25
Bromodichloromethane	ND		20.0	21.7		ug/L		109	80 - 135	6	25
Bromoform	ND		20.0	19.3		ug/L		96	65 - 150	3	25
Bromomethane	ND		20.0	21.1		ug/L		106	30 - 150	6	25
2-Butanone (MEK)	ND		100	99.0		ug/L		99	70 - 145	6	25
n-Butylbenzene	ND		20.0	20.6		ug/L		103	70 - 140	1	25
sec-Butylbenzene	ND		20.0	20.3		ug/L		101	70 - 135	6	25
tert-Butylbenzene	ND		20.0	21.6		ug/L		108	70 - 135	3	25
Carbon disulfide	ND		40.0	39.6		ug/L		99	40 - 150	6	25
Carbon tetrachloride	ND		20.0	20.3		ug/L		101	75 - 130	3	25
Chlorobenzene	ND		20.0	21.9		ug/L		109	70 - 135	5	25
Chloroethane	ND		20.0	20.2		ug/L		101	75 - 130	6	25
Chloroform	ND		20.0	22.9		ug/L		115	80 - 125	5	25
Chloromethane	ND		20.0	21.6		ug/L		108	40 - 150	4	25
2-Chlorotoluene	ND		20.0	21.3		ug/L		107	80 - 120	4	25
4-Chlorotoluene	ND		20.0	20.9		ug/L		105	80 - 125	6	25
1,2-Dibromo-3-Chloropropane	ND		20.0	21.6		ug/L		108	55 - 145	3	25
Dibromochloromethane	ND		20.0	20.9		ug/L		104	80 - 130	6	25
1,2-Dibromoethane	ND		20.0	22.2		ug/L		111	80 - 130	3	
Dibromomethane	ND		20.0	22.0		ug/L		110	75 - 135	5	25
1,2-Dichloroethane	ND		20.0	21.6		ug/L		108	80 - 125	7	25
1,3-Dichlorobenzene	ND		20.0	20.3		ug/L		102	80 - 125	6	25
1,4-Dichlorobenzene	ND		20.0	20.9		ug/L		104	80 - 120	3	25
Dichlorodifluoromethane	ND		20.0	21.4		ug/L		107	60 - 135	3	25
1,1-Dichloroethane	ND		20.0	21.8		ug/L		109	80 - 125	4	25
1,1-Dichloroethene	ND		20.0	20.5		ug/L		102	75 - 130	4	25
cis-1,2-Dichloroethene	ND		20.0	20.5		ug/L		103	75 - 140	6	25
trans-1,2-Dichloroethene	ND		20.0	19.7		ug/L		99	80 - 120	6	25
1,2-Dichloropropane	ND		20.0	22.3		ug/L		111	80 - 120	3	25
1,3-Dichloropropane	ND		20.0	22.6		ug/L		113	80 - 135	6	25
2,2-Dichloropropane	ND		20.0	21.1		ug/L		105	70 - 145	6	25
1,1-Dichloropropene	ND		20.0	20.6		ug/L		103	80 - 125	4	25
cis-1,3-Dichloropropene	ND		20.0	21.6		ug/L		108	80 - 130	5	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 250-3451-2 MSD
Matrix: Water
Analysis Batch: 6035

Client Sample ID: Outfall B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	ND		20.0	21.6		ug/L		108	80 - 135	2	25
Ethylbenzene	ND		20.0	21.0		ug/L		105	80 - 125	4	25
Hexachlorobutadiene	ND		20.0	20.5		ug/L		102	45 - 150	1	25
2-Hexanone	ND		100	94.9		ug/L		95	60 - 150	3	25
Isopropylbenzene	ND		20.0	21.2		ug/L		106	80 - 130	4	25
p-Isopropyltoluene	ND		20.0	20.4		ug/L		102	70 - 140	6	25
4-Methyl-2-pentanone (MIBK)	ND		100	98.2		ug/L		98	55 - 150	2	25
Methyl tert-butyl ether	ND		20.0	20.0		ug/L		100	80 - 130	5	25
Methylene Chloride	ND		20.0	21.4		ug/L		107	80 - 120	5	25
Naphthalene	ND		20.0	19.7		ug/L		99	65 - 150	5	25
N-Propylbenzene	ND		20.0	20.8		ug/L		104	70 - 135	4	25
Styrene	ND		20.0	20.6		ug/L		103	45 - 150	4	25
1,1,1,2-Tetrachloroethane	ND		20.0	21.6		ug/L		108	80 - 130	5	25
1,1,2,2-Tetrachloroethane	ND		20.0	23.6		ug/L		118	75 - 150	6	25
Tetrachloroethene	ND		20.0	20.4		ug/L		102	80 - 125	4	25
Toluene	ND		20.0	21.4		ug/L		107	75 - 135	2	25
1,2,3-Trichlorobenzene	ND		20.0	20.2		ug/L		101	70 - 150	6	25
1,2,4-Trichlorobenzene	ND		20.0	19.2		ug/L		96	70 - 150	1	25
1,1,1-Trichloroethane	ND		20.0	21.5		ug/L		108	80 - 130	4	25
1,1,2-Trichloroethane	ND		20.0	22.9		ug/L		114	80 - 130	5	25
Trichloroethene	ND		20.0	21.3		ug/L		107	65 - 130	4	25
Trichlorofluoromethane	ND		20.0	21.3		ug/L		107	75 - 130	4	25
1,2,3-Trichloropropane	ND		20.0	23.8		ug/L		119	80 - 135	2	25
1,2,4-Trimethylbenzene	ND		20.0	21.2		ug/L		106	80 - 140	5	25
1,3,5-Trimethylbenzene	ND		20.0	21.1		ug/L		105	70 - 145	5	25
Vinyl chloride	ND		20.0	20.6		ug/L		103	70 - 135	6	25
m,p-Xylene	ND		40.0	42.4		ug/L		106	75 - 135	1	25
o-Xylene	ND		20.0	21.5		ug/L		108	80 - 125	2	25
1,2-Dichlorobenzene	ND		20.0	22.6		ug/L		113	80 - 120	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 250-6049/1-A
Matrix: Water
Analysis Batch: 6325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		1.0		ug/L		06/07/12 15:56	06/12/12 14:00	1
Butyl benzyl phthalate	ND		1.0		ug/L		06/07/12 15:56	06/12/12 14:00	1
Diethyl phthalate	ND		1.0		ug/L		06/07/12 15:56	06/12/12 14:00	1
Dimethyl phthalate	ND		1.0		ug/L		06/07/12 15:56	06/12/12 14:00	1
Di-n-butyl phthalate	ND		1.0		ug/L		06/07/12 15:56	06/12/12 14:00	1
Di-n-octyl phthalate	ND		1.0		ug/L		06/07/12 15:56	06/12/12 14:00	1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 250-6049/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 6325 — **Prep Batch: 6049**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	90		10 - 150	06/07/12 15:56	06/12/12 17:56	20
2-Fluorobiphenyl (Surr)	73		10 - 150	06/07/12 15:56	06/12/12 17:56	20

Lab Sample ID: LCS 250-6049/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 6325 — **Prep Batch: 6049**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	4.00	2.93		ug/L		73	20 - 150
Butyl benzyl phthalate	4.00	3.06		ug/L		76	20 - 150
Diethyl phthalate	4.00	3.18		ug/L		80	20 - 150
Dimethyl phthalate	4.00	3.13		ug/L		78	20 - 150
Di-n-butyl phthalate	4.00	3.22		ug/L		80	20 - 150
Di-n-octyl phthalate	4.00	2.80		ug/L		70	20 - 150

Lab Sample ID: LCS 250-6049/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 6325 — **Prep Batch: 6049**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl-d14 (Surr)	93		10 - 150
2-Fluorobiphenyl (Surr)	72		10 - 150

Lab Sample ID: LCSD 250-6049/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 6325 — **Prep Batch: 6049**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	4.00	2.98		ug/L		75	20 - 150	2	35
Butyl benzyl phthalate	4.00	3.14		ug/L		78	20 - 150	3	35
Diethyl phthalate	4.00	3.19		ug/L		80	20 - 150	0	35
Dimethyl phthalate	4.00	3.19		ug/L		80	20 - 150	2	35
Di-n-butyl phthalate	4.00	3.21		ug/L		80	20 - 150	0	35
Di-n-octyl phthalate	4.00	2.79		ug/L		70	20 - 150	0	35

Lab Sample ID: LCSD 250-6049/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 6325 — **Prep Batch: 6049**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl-d14 (Surr)	87		10 - 150
2-Fluorobiphenyl (Surr)	73		10 - 150

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 250-6108/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 6173 — **Prep Batch: 6108**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:35	1
PCB-1221	ND		0.20		ug/L		06/08/12 14:41	06/11/12 14:35	1
PCB-1232	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:35	1
PCB-1242	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:35	1
PCB-1248	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:35	1
PCB-1254	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:35	1
PCB-1260	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:35	1
PCB-1262	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:35	1
PCB-1268	ND		0.10		ug/L		06/08/12 14:41	06/11/12 14:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*10 - 130*	*06/08/12 14:41*	*06/11/12 14:35*	*1*

Lab Sample ID: LCS 250-6108/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 6173 — **Prep Batch: 6108**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.500	0.316		ug/L		63	50 - 150
PCB-1260	0.500	0.434		ug/L		87	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*92*		*10 - 130*

Lab Sample ID: LCSD 250-6108/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 6173 — **Prep Batch: 6108**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	0.500	0.349		ug/L		70	50 - 150	10	20
PCB-1260	0.500	0.458		ug/L		92	50 - 150	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*10 - 130*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 250-5880/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 5938 — **Prep Batch: 5880**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0020		mg/L		06/05/12 09:57	06/05/12 17:46	1
Lead	ND		0.0010		mg/L		06/05/12 09:57	06/05/12 17:46	1
Zinc	ND		0.010		mg/L		06/05/12 09:57	06/05/12 17:46	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 250-5880/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 5938 — **Prep Batch: 5880**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.100	0.0918		mg/L		92	80 - 120
Lead	0.100	0.0913		mg/L		91	80 - 120
Zinc	0.100	0.0979		mg/L		98	80 - 120

Lab Sample ID: 250-3411-B-4-C MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 5938 — **Prep Batch: 5880**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	ND		0.100	0.0961		mg/L		95	75 - 125
Lead	ND		0.100	0.0900		mg/L		90	75 - 125
Zinc	ND		0.100	0.103		mg/L		103	75 - 125

Lab Sample ID: 250-3451-1 MS — **Client Sample ID: Outfall A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 5938 — **Prep Batch: 5880**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.029		0.100	0.122		mg/L		93	75 - 125
Lead	0.0053		0.100	0.103		mg/L		98	75 - 125
Zinc	0.081		0.100	0.183		mg/L		101	75 - 125

Lab Sample ID: 250-3398-G-1-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 5938 — **Prep Batch: 5880**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Copper	0.025		0.0222		mg/L		12	20
Lead	0.023		0.0216		mg/L		5	20
Zinc	0.34		0.306		mg/L		12	20

Method: 160.2 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 250-6043/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 6043

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		10		mg/L			06/07/12 15:58	1

Lab Sample ID: LCS 250-6043/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 6043

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	60.3	66.0		mg/L		109	80 - 120

Method: 160.2 - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 250-3451-2 DU
Matrix: Water
Analysis Batch: 6043

Client Sample ID: Outfall B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND			ND		mg/L				NC	20

QC Association Summary

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

GC/MS VOA

Analysis Batch: 6035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-3451-1	Outfall A	Total/NA	Water	8260B	
250-3451-2	Outfall B	Total/NA	Water	8260B	
250-3451-2 MS	Outfall B	Total/NA	Water	8260B	
250-3451-2 MSD	Outfall B	Total/NA	Water	8260B	
LCS 250-6035/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 250-6035/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 250-6035/7	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 6049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-3451-1	Outfall A	Total/NA	Water	3520C	
250-3451-2	Outfall B	Total/NA	Water	3520C	
LCS 250-6049/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 250-6049/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 250-6049/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 6325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-3451-1	Outfall A	Total/NA	Water	8270C SIM	6049
250-3451-1	Outfall A	Total/NA	Water	8270C SIM	6049
250-3451-2	Outfall B	Total/NA	Water	8270C SIM	6049
250-3451-2	Outfall B	Total/NA	Water	8270C SIM	6049
LCS 250-6049/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	6049
LCS 250-6049/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	6049
LCSD 250-6049/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	6049
LCSD 250-6049/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	6049
MB 250-6049/1-A	Method Blank	Total/NA	Water	8270C SIM	6049
MB 250-6049/1-A	Method Blank	Total/NA	Water	8270C SIM	6049

GC Semi VOA

Prep Batch: 6108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-3451-1	Outfall A	Total/NA	Water	3510C	
250-3451-2	Outfall B	Total/NA	Water	3510C	
LCS 250-6108/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 250-6108/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 250-6108/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 6173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-3451-1	Outfall A	Total/NA	Water	8082	6108
250-3451-2	Outfall B	Total/NA	Water	8082	6108
LCS 250-6108/2-A	Lab Control Sample	Total/NA	Water	8082	6108
LCSD 250-6108/3-A	Lab Control Sample Dup	Total/NA	Water	8082	6108
MB 250-6108/1-A	Method Blank	Total/NA	Water	8082	6108

QC Association Summary

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

Metals

Prep Batch: 5880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-3398-G-1-B DU	Duplicate	Total/NA	Water	3005A	
250-3411-B-4-C MS	Matrix Spike	Total/NA	Water	3005A	
250-3451-1	Outfall A	Total/NA	Water	3005A	
250-3451-1 MS	Outfall A	Total/NA	Water	3005A	
250-3451-2	Outfall B	Total/NA	Water	3005A	
LCS 250-5880/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 250-5880/1-A	Method Blank	Total/NA	Water	3005A	

Analysis Batch: 5938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-3398-G-1-B DU	Duplicate	Total/NA	Water	6020	5880
250-3411-B-4-C MS	Matrix Spike	Total/NA	Water	6020	5880
250-3451-1	Outfall A	Total/NA	Water	6020	5880
250-3451-1 MS	Outfall A	Total/NA	Water	6020	5880
250-3451-2	Outfall B	Total/NA	Water	6020	5880
LCS 250-5880/2-A	Lab Control Sample	Total/NA	Water	6020	5880
MB 250-5880/1-A	Method Blank	Total/NA	Water	6020	5880

General Chemistry

Analysis Batch: 6043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
250-3451-1	Outfall A	Total/NA	Water	160.2	
250-3451-2	Outfall B	Total/NA	Water	160.2	
250-3451-2 DU	Outfall B	Total/NA	Water	160.2	
LCS 250-6043/2	Lab Control Sample	Total/NA	Water	160.2	
MB 250-6043/1	Method Blank	Total/NA	Water	160.2	

Certification Summary

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Portland	Alaska	State Program	10	OR00040
TestAmerica Portland	Alaska (UST)	State Program	10	UST-012
TestAmerica Portland	California	State Program	9	2597
TestAmerica Portland	Oregon	NELAC	10	OR100021
TestAmerica Portland	USDA	Federal		P330-11-00092
TestAmerica Portland	Washington	State Program	10	C586

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Hart Crowser, Inc.
Project/Site: Brix Maritime

TestAmerica Job ID: 250-3451-1
SDG: 15634.00

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL PRT
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
160.2	Solids, Total Suspended (TSS)	MCAWW	TAL PRT

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-42
5755 8Th Street East, Tacoma, Wa 98424 253-92
9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-90
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-56

Loc: 250
3451

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: Hart Crowser

REPORT TO: Leon Lahiere
ADDRESS: 8910 SW Gemini Dr.
Beaverton, OR 97008

PHONE: FAX:

INVOICE TO: Leon Lahiere
Hart Crowser

P.O. NUMBER: 15634-00

PROJECT NAME: Brix Maritime
PROJECT NUMBER: 15634-00
SAMPLED BY: Chris Martin

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses: 10 STD, 7, 5, 4, 3, 2, 1, <1
Petroleum Hydrocarbon Analyses: 5 STD, 4, 3, 2, 1, <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE

REQUESTED ANALYSES

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOCs 8260B	PCB's Low Level 8082A	Phthalates Low Level 8270	TSS 160.2	Total Copper, Lead, & Zinc 6000	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 Outfall A	6/4/12 1105	x	x	x	x	x	W			
2 Outfall B	6/4/12 1026	x	x	x	x	x	W			
3										
4										
5										
6										
7										
8										
9										
10										

RELEASED BY: [signature]	DATE: 6/4/12	RECEIVED BY: [signature]	DATE: 6-4-12
PRINT NAME: Chris Martin FIRM: HC	TIME:	PRINT NAME: Brian Monnin FIRM: T.A.	TIME: 1442
RELEASED BY: [signature]	DATE: 6-4-12	RECEIVED BY: [signature]	DATE: 06/04/12
PRINT NAME: Adam Norris FIRM: TA	TIME: 1445	PRINT NAME: Tom Krause FIRM: TAP	TIME: 1445

ADDITIONAL REMARKS:
EPA 6000 Total Copper, Lead, & Zinc

TEMP: 5.1

PAGE 1 OF 1

TAL-1000 (0212)

1R/P-L

Login Sample Receipt Checklist

Client: Hart Crowser, Inc.

Job Number: 250-3451-1
SDG Number: 15634.00

Login Number: 3451
List Number: 1
Creator: Svabik-Seror, Philip

List Source: TestAmerica Portland

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Trip Blank received, not listed on COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

Leon Lahiere
Hart Crowser - Portland, OR
8910 SW Gemini Drive
Beaverton, OR 97008

Report Summary

Wednesday June 13, 2012

Report Number: L578549
Samples Received: 06/05/12
Client Project: 15534-00

Description: Brix Maritime

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jarred Willis

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
8910 SW Gemini Drive
Beaverton, OR 97008

June 13, 2012

ESC Sample # : L578549-01

Date Received : June 05, 2012
Description : Brix Maritime

Site ID :

Sample ID : OUTFALL A

Project # : 15534-00

Collected By : Chris Martin
Collection Date : 06/04/12 11:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Gasoline Range Organics-NWTPH	U	33.	100	ug/l		NWTPHGX	06/06/12	1
Surrogate Recovery								
a,a,a-Trifluorotoluene(FID)	97.6			% Rec.		NWTPHGX	06/06/12	1
Diesel Range Organics (DRO)	90.	33.	100	ug/l	J	NWTPHDX	06/13/12	1
Residual Range Organics (RRO)	U	82.	250	ug/l		NWTPHDX	06/13/12	1
Surrogate Recovery								
o-Terphenyl	84.7			% Rec.		NWTPHDX	06/13/12	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.026	0.0076	0.050	ug/l	J	8270C-S	06/12/12	1
Acenaphthene	0.0095	0.0082	0.050	ug/l	J	8270C-S	06/12/12	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	06/12/12	1
Benzo(a)anthracene	0.15	0.012	0.050	ug/l		8270C-S	06/12/12	1
Benzo(a)pyrene	0.12	0.012	0.050	ug/l		8270C-S	06/12/12	1
Benzo(b)fluoranthene	0.19	0.014	0.050	ug/l		8270C-S	06/12/12	1
Benzo(g,h,i)perylene	0.087	0.011	0.050	ug/l		8270C-S	06/12/12	1
Benzo(k)fluoranthene	0.079	0.014	0.050	ug/l		8270C-S	06/12/12	1
Chrysene	0.18	0.011	0.050	ug/l		8270C-S	06/12/12	1
Dibenz(a,h)anthracene	0.018	0.0040	0.050	ug/l	J	8270C-S	06/12/12	1
Fluoranthene	0.24	0.016	0.050	ug/l		8270C-S	06/12/12	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	06/12/12	1
Indeno(1,2,3-cd)pyrene	0.070	0.015	0.050	ug/l		8270C-S	06/12/12	1
Naphthalene	0.071	0.020	0.25	ug/l	J	8270C-S	06/12/12	1
Phenanthrene	0.089	0.0082	0.050	ug/l		8270C-S	06/12/12	1
Pyrene	0.25	0.012	0.050	ug/l		8270C-S	06/12/12	1
1-Methylnaphthalene	0.014	0.0082	0.25	ug/l	J	8270C-S	06/12/12	1
2-Methylnaphthalene	0.018	0.0090	0.25	ug/l	J	8270C-S	06/12/12	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	06/12/12	1
Surrogate Recovery								
Nitrobenzene-d5	107.			% Rec.		8270C-S	06/12/12	1
2-Fluorobiphenyl	93.1			% Rec.		8270C-S	06/12/12	1
p-Terphenyl-d14	95.3			% Rec.		8270C-S	06/12/12	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
The reported analytical results relate only to the sample submitted.
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.
Reported: 06/13/12 14:33 Printed: 06/13/12 14:34

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
8910 SW Gemini Drive
Beaverton, OR 97008

June 13, 2012

ESC Sample # : L578549-02

Date Received : June 05, 2012
Description : Brix Maritime

Site ID :

Sample ID : OUTFALL B

Project # : 15534-00

Collected By : Chris Martin
Collection Date : 06/04/12 10:26

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Gasoline Range Organics-NWTPH	U	33.	100	ug/l		NWTPHGX	06/06/12	1
Surrogate Recovery								
a,a,a-Trifluorotoluene(FID)	98.1			% Rec.		NWTPHGX	06/06/12	1
Diesel Range Organics (DRO)	U	33.	100	ug/l		NWTPHDX	06/13/12	1
Residual Range Organics (RRO)	U	82.	250	ug/l		NWTPHDX	06/13/12	1
Surrogate Recovery								
o-Terphenyl	73.9			% Rec.		NWTPHDX	06/13/12	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0076	0.050	ug/l		8270C-S	06/12/12	1
Acenaphthene	U	0.0082	0.050	ug/l		8270C-S	06/12/12	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	06/12/12	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	06/12/12	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	06/12/12	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	06/12/12	1
Benzo(g,h,i)perylene	U	0.011	0.050	ug/l		8270C-S	06/12/12	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	06/12/12	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	06/12/12	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	06/12/12	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	06/12/12	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	06/12/12	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	06/12/12	1
Naphthalene	0.057	0.020	0.25	ug/l	J	8270C-S	06/12/12	1
Phenanthrene	0.010	0.0082	0.050	ug/l	J	8270C-S	06/12/12	1
Pyrene	U	0.012	0.050	ug/l		8270C-S	06/12/12	1
1-Methylnaphthalene	0.012	0.0082	0.25	ug/l	J	8270C-S	06/12/12	1
2-Methylnaphthalene	0.018	0.0090	0.25	ug/l	J	8270C-S	06/12/12	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	06/12/12	1
Surrogate Recovery								
Nitrobenzene-d5	110.			% Rec.		8270C-S	06/12/12	1
2-Fluorobiphenyl	89.9			% Rec.		8270C-S	06/12/12	1
p-Terphenyl-d14	91.5			% Rec.		8270C-S	06/12/12	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
The reported analytical results relate only to the sample submitted.
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.
Reported: 06/13/12 14:33 Printed: 06/13/12 14:34

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L578549-01	WG596822	SAMP	Diesel Range Organics (DRO)	R2208473	J
	WG596526	SAMP	Anthracene	R2205873	J
	WG596526	SAMP	Acenaphthene	R2205873	J
	WG596526	SAMP	Dibenz(a,h)anthracene	R2205873	J
	WG596526	SAMP	Naphthalene	R2205873	J
	WG596526	SAMP	1-Methylnaphthalene	R2205873	J
	WG596526	SAMP	2-Methylnaphthalene	R2205873	J
L578549-02	WG596526	SAMP	Naphthalene	R2205873	J
	WG596526	SAMP	Phenanthrene	R2205873	J
	WG596526	SAMP	1-Methylnaphthalene	R2205873	J
	WG596526	SAMP	2-Methylnaphthalene	R2205873	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
06/13/12 at 14:34:05

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L578549-01 Account: HARCROPOR Received: 06/05/12 09:00 Due Date: 06/12/12 00:00 RPT Date: 06/13/12 14:33

Sample: L578549-02 Account: HARCROPOR Received: 06/05/12 09:00 Due Date: 06/12/12 00:00 RPT Date: 06/13/12 14:33

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Leon Lahiere
8910 SW Gemini Drive

Beaverton, OR 97008

Quality Assurance Report
Level II

L578549

June 13, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Gasoline Range Organics-NWTPH	< .1	mg/l			WG596424	06/06/12 16:43
a,a,a-Trifluorotoluene(FID)		% Rec.	98.70	62-128	WG596424	06/06/12 16:43
1-Methylnaphthalene	< .00025	mg/l			WG596526	06/11/12 12:36
2-Chloronaphthalene	< .00025	mg/l			WG596526	06/11/12 12:36
2-Methylnaphthalene	< .00025	mg/l			WG596526	06/11/12 12:36
Acenaphthene	< .00005	mg/l			WG596526	06/11/12 12:36
Acenaphthylene	< .00005	mg/l			WG596526	06/11/12 12:36
Anthracene	< .00005	mg/l			WG596526	06/11/12 12:36
Benzo(a)anthracene	< .00005	mg/l			WG596526	06/11/12 12:36
Benzo(a)pyrene	< .00005	mg/l			WG596526	06/11/12 12:36
Benzo(b)fluoranthene	< .00005	mg/l			WG596526	06/11/12 12:36
Benzo(g,h,i)perylene	< .00005	mg/l			WG596526	06/11/12 12:36
Benzo(k)fluoranthene	< .00005	mg/l			WG596526	06/11/12 12:36
Chrysene	< .00005	mg/l			WG596526	06/11/12 12:36
Dibenz(a,h)anthracene	< .00005	mg/l			WG596526	06/11/12 12:36
Fluoranthene	< .00005	mg/l			WG596526	06/11/12 12:36
Fluorene	< .00005	mg/l			WG596526	06/11/12 12:36
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG596526	06/11/12 12:36
Naphthalene	< .00025	mg/l			WG596526	06/11/12 12:36
Phenanthrene	< .00005	mg/l			WG596526	06/11/12 12:36
Pyrene	< .00005	mg/l			WG596526	06/11/12 12:36
2-Fluorobiphenyl		% Rec.	123.2	70-130	WG596526	06/11/12 12:36
Nitrobenzene-d5		% Rec.	116.8	70-130	WG596526	06/11/12 12:36
p-Terphenyl-d14		% Rec.	129.6	70-130	WG596526	06/11/12 12:36
Diesel Range Organics (DRO)	< .1	ppm			WG596822	06/13/12 09:33
Residual Range Organics (RRO)	< .25	ppm			WG596822	06/13/12 09:33
o-Terphenyl		% Rec.	77.72	50-150	WG596822	06/13/12 09:33

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Gasoline Range Organics-NWTPH	mg/l	5.5	5.41	98.4	70-124	WG596424
a,a,a-Trifluorotoluene(FID)				105.2	62-128	WG596424
1-Methylnaphthalene	mg/l	.002	0.00161	80.6	70-130	WG596526
2-Chloronaphthalene	mg/l	.002	0.00185	92.5	70-130	WG596526
2-Methylnaphthalene	mg/l	.002	0.00156	78.2	70-130	WG596526
Acenaphthene	mg/l	.002	0.00190	95.0	70-130	WG596526
Acenaphthylene	mg/l	.002	0.00182	91.2	70-130	WG596526
Anthracene	mg/l	.002	0.00187	93.3	70-130	WG596526
Benzo(a)anthracene	mg/l	.002	0.00194	96.9	70-130	WG596526
Benzo(a)pyrene	mg/l	.002	0.00199	99.3	70-130	WG596526
Benzo(b)fluoranthene	mg/l	.002	0.00196	97.8	70-130	WG596526
Benzo(g,h,i)perylene	mg/l	.002	0.00157	78.7	70-130	WG596526
Benzo(k)fluoranthene	mg/l	.002	0.00196	98.1	70-130	WG596526
Chrysene	mg/l	.002	0.00190	95.0	70-130	WG596526
Dibenz(a,h)anthracene	mg/l	.002	0.00164	82.0	70-130	WG596526
Fluoranthene	mg/l	.002	0.00180	90.2	70-130	WG596526
Fluorene	mg/l	.002	0.00184	91.8	70-130	WG596526
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00168	83.9	70-130	WG596526
Naphthalene	mg/l	.002	0.00184	91.9	70-130	WG596526
Phenanthrene	mg/l	.002	0.00183	91.5	70-130	WG596526
Pyrene	mg/l	.002	0.00198	99.1	70-130	WG596526
2-Fluorobiphenyl				90.90	70-130	WG596526

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Beaverton, OR 97008

Quality Assurance Report
Level II

L578549

June 13, 2012

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Nitrobenzene-d5				86.27	70-130	
p-Terphenyl-d14				90.37	70-130	
Diesel Range Organics (DRO)	mg/l	.75	0.638	85.1	50-150	WG596822
Residual Range Organics (RRO)	mg/l	.75	0.611	81.4	50-150	WG596822
o-Terphenyl				94.01	50-150	WG596822

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Gasoline Range Organics-NWTPH	mg/l	5.58	5.41	101.	70-124	2.98	20	WG596424
a,a,a-Trifluorotoluene(FID)				105.9	62-128			WG596424
1-Methylnaphthalene	mg/l	0.00187	0.00161	93.0	70-130	14.8	25	WG596526
2-Chloronaphthalene	mg/l	0.00210	0.00185	105.	70-130	12.4	25	WG596526
2-Methylnaphthalene	mg/l	0.00181	0.00156	90.0	70-130	14.4	25	WG596526
Acenaphthene	mg/l	0.00214	0.00190	107.	70-130	12.1	25	WG596526
Acenaphthylene	mg/l	0.00209	0.00182	104.	70-130	13.6	25	WG596526
Anthracene	mg/l	0.00217	0.00187	108.	70-130	14.9	25	WG596526
Benzo(a)anthracene	mg/l	0.00219	0.00194	109.	70-130	12.0	25	WG596526
Benzo(a)pyrene	mg/l	0.00224	0.00199	112.	70-130	12.1	25	WG596526
Benzo(b)fluoranthene	mg/l	0.00206	0.00196	103.	70-130	5.05	25	WG596526
Benzo(g,h,i)perylene	mg/l	0.00184	0.00157	92.0	70-130	15.5	25	WG596526
Benzo(k)fluoranthene	mg/l	0.00241	0.00196	121.	70-130	20.7	25	WG596526
Chrysene	mg/l	0.00214	0.00190	107.	70-130	11.9	25	WG596526
Dibenz(a,h)anthracene	mg/l	0.00191	0.00164	95.0	70-130	15.1	25	WG596526
Fluoranthene	mg/l	0.00210	0.00180	105.	70-130	15.2	25	WG596526
Fluorene	mg/l	0.00209	0.00184	104.	70-130	12.9	25	WG596526
Indeno(1,2,3-cd)pyrene	mg/l	0.00191	0.00168	96.0	70-130	13.1	25	WG596526
Naphthalene	mg/l	0.00209	0.00184	104.	70-130	12.8	25	WG596526
Phenanthrene	mg/l	0.00209	0.00183	104.	70-130	13.4	25	WG596526
Pyrene	mg/l	0.00226	0.00198	113.	70-130	13.0	25	WG596526
2-Fluorobiphenyl				101.6	70-130			WG596526
Nitrobenzene-d5				98.32	70-130			WG596526
p-Terphenyl-d14				105.6	70-130			WG596526
Diesel Range Organics (DRO)	mg/l	0.640	0.638	85.0	50-150	0.376	20	WG596822
Residual Range Organics (RRO)	mg/l	0.607	0.611	81.0	50-150	0.562	20	WG596822
o-Terphenyl				92.82	50-150			WG596822

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Gasoline Range Organics-NWTPH	mg/l	5.47	0.0257	5.5	98.9	58-122	L578541-04	WG596424
a,a,a-Trifluorotoluene(FID)					105.1	62-128		WG596424

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Gasoline Range Organics-NWTPH	mg/l	5.62	5.47	102.	58-122	2.74	20	L578541-04	WG596424
a,a,a-Trifluorotoluene(FID)				105.2	62-128				WG596424

Batch number /Run number / Sample number cross reference

WG596424: R2199813: L578549-01 02
WG596526: R2205873: L578549-01 02
WG596822: R2208473: L578549-01 02
* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L578549

June 13, 2012

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Billing information:

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Report to: Leon Lahiere

Email: leon.lahiere@hartcrowser.cor

Project Description: Brix Maritime

City/State Collected: Portland, OR

Phone: (503) 620-7284
FAX:

Client Project #: 15534-00

Lab Project #: HARCROPOR-1563400

Collected by (print): Chris Martin

Site/Facility ID#:

P.O.#:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: Standard

Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: HARCROPOR (lab use only)
Template/Prelogin: T79193/ P393566
Cooler #: 5-22 mm
Shipped Via: FedEX Saver

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	NWTPHDX 100ml Amb-HCl	NWTPHGX 40mlAmb HCl	SVPAHSIMLVID 40mlAmb-NoPres						Remarks/Contaminant	Sample # (lab only)
Outfall A	Grab	GW	NA	6/4/12	1105	7	X	X	X							L578549-01
Outfall B	Grab	GW	NA	6/4/12	1026	7	X	X	X							02

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

5274 8789 7030

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐	Condition: (lab use only)
	6/4/12	1500			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.7 / Bottles Received: 14+TB	COC Seal Intact: ___Y ___N ✓NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/5/12 / Time: 0900	pH Checked: L2 / NCF:

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Report Summary

Tuesday March 05, 2013

Report Number: L621775
Samples Received: 02/23/13
Client Project: 15634-00

Description: Brix Maritime

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
8910 SW Gemini Drive
Beaverton, OR 97008

March 05, 2013

ESC Sample # : L621775-01

Date Received : February 23, 2013
Description : Brix Maritime

Site ID :

Sample ID : OUTFALL A

Project # : 15634-00

Collected By : Jason R. Miles
Collection Date : 02/22/13 11:04

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Suspended Solids	14000	350	1000	ug/l		2540 D-	03/01/13	1
Copper	3.3	0.52	2.0	ug/l		6020	02/27/13	1
Lead	1.9	0.24	1.0	ug/l		6020	02/27/13	1
Zinc	15.	2.6	10.	ug/l		6020	02/27/13	1
Gasoline Range Organics-NWTPH	U	32.	100	ug/l		NWTPHGX	02/26/13	1
Surrogate Recovery								
a,a,a-Trifluorotoluene(FID)	97.4			% Rec.		NWTPHGX	02/26/13	1
Volatile Organics								
Acetone	U	4.6	50.	ug/l	J3	8260B	02/24/13	1
Acrolein	U	8.9	50.	ug/l		8260B	02/24/13	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	02/24/13	1
Benzene	U	0.33	1.0	ug/l		8260B	02/24/13	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	02/24/13	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	02/24/13	1
Bromoform	U	0.47	1.0	ug/l		8260B	02/24/13	1
Bromomethane	U	0.87	5.0	ug/l		8260B	02/24/13	1
n-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/24/13	1
sec-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/24/13	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	02/24/13	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	02/24/13	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	02/24/13	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	02/24/13	1
Chloroethane	U	0.45	5.0	ug/l		8260B	02/24/13	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	02/24/13	1
Chloroform	U	0.32	5.0	ug/l		8260B	02/24/13	1
Chloromethane	U	0.28	2.5	ug/l		8260B	02/24/13	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	02/24/13	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	02/24/13	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	02/24/13	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	02/24/13	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	02/24/13	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	02/24/13	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	02/24/13	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	02/24/13	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	02/24/13	1
1,1-Dichloroethane	U	0.26	1.0	ug/l		8260B	02/24/13	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	02/24/13	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/24/13	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	02/24/13	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/24/13	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
8910 SW Gemini Drive
Beaverton, OR 97008

March 05, 2013

ESC Sample # : L621775-01

Date Received : February 23, 2013
Description : Brix Maritime

Site ID :

Sample ID : OUTFALL A

Project # : 15634-00

Collected By : Jason R. Miles
Collection Date : 02/22/13 11:04

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	02/24/13	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	02/24/13	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	02/24/13	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/24/13	1
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/24/13	1
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	02/24/13	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	02/24/13	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	02/24/13	1
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l		8260B	02/24/13	1
Isopropylbenzene	U	0.33	1.0	ug/l		8260B	02/24/13	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	02/24/13	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	02/24/13	1
Methylene Chloride	U	0.84	5.0	ug/l		8260B	02/24/13	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	02/24/13	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	02/24/13	1
Naphthalene	U	0.59	5.0	ug/l		8260B	02/24/13	1
n-Propylbenzene	U	0.35	1.0	ug/l		8260B	02/24/13	1
Styrene	U	0.31	1.0	ug/l		8260B	02/24/13	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	02/24/13	1
1,1,2,2-Tetrachloroethane	U	0.58	1.0	ug/l		8260B	02/24/13	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	02/24/13	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	02/24/13	1
Toluene	U	0.78	5.0	ug/l		8260B	02/24/13	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	02/24/13	1
1,2,4-Trichlorobenzene	U	0.21	1.0	ug/l		8260B	02/24/13	1
1,1,1-Trichloroethane	U	0.32	1.0	ug/l		8260B	02/24/13	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	02/24/13	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	02/24/13	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	02/24/13	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	02/24/13	1
1,2,4-Trimethylbenzene	U	0.37	1.0	ug/l		8260B	02/24/13	1
1,2,3-Trimethylbenzene	U	0.32	1.0	ug/l		8260B	02/24/13	1
1,3,5-Trimethylbenzene	U	0.39	1.0	ug/l		8260B	02/24/13	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	02/24/13	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	02/24/13	1
Surrogate Recovery								
Toluene-d8	96.4			% Rec.		8260B	02/24/13	1
Dibromofluoromethane	101.			% Rec.		8260B	02/24/13	1
4-Bromofluorobenzene	95.7			% Rec.		8260B	02/24/13	1
Diesel Range Organics (DRO)	97.	33.	100	ug/l	J	NWTPHDX	02/26/13	1
Residual Range Organics (RRO)	180	82.	250	ug/l	J	NWTPHDX	02/26/13	1
Surrogate Recovery								

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
8910 SW Gemini Drive
Beaverton, OR 97008

March 05, 2013

ESC Sample # : L621775-01

Date Received : February 23, 2013
Description : Brix Maritime

Site ID :

Sample ID : OUTFALL A

Project # : 15634-00

Collected By : Jason R. Miles
Collection Date : 02/22/13 11:04

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
o-Terphenyl	90.7			% Rec.		NWTPHDX	02/26/13	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0076	0.050	ug/l		8270C-S	02/27/13	1
Acenaphthene	U	0.0082	0.050	ug/l		8270C-S	02/27/13	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	02/27/13	1
Benzo(a)anthracene	U	0.012	0.050	ug/l		8270C-S	02/27/13	1
Benzo(a)pyrene	U	0.012	0.050	ug/l		8270C-S	02/27/13	1
Benzo(b)fluoranthene	U	0.014	0.050	ug/l		8270C-S	02/27/13	1
Benzo(g,h,i)perylene	0.012	0.011	0.050	ug/l	J	8270C-S	02/27/13	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	02/27/13	1
Chrysene	U	0.011	0.050	ug/l		8270C-S	02/27/13	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	02/27/13	1
Fluoranthene	U	0.016	0.050	ug/l		8270C-S	02/27/13	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	02/27/13	1
Indeno(1,2,3-cd)pyrene	U	0.015	0.050	ug/l		8270C-S	02/27/13	1
Naphthalene	0.046	0.020	0.25	ug/l	J	8270C-S	02/27/13	1
Phenanthrene	0.023	0.0082	0.050	ug/l	J	8270C-S	02/27/13	1
Pyrene	0.019	0.012	0.050	ug/l	J	8270C-S	02/27/13	1
1-Methylnaphthalene	0.0094	0.0082	0.25	ug/l	J	8270C-S	02/27/13	1
2-Methylnaphthalene	0.012	0.0090	0.25	ug/l	J	8270C-S	02/27/13	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	02/27/13	1
Surrogate Recovery								
Nitrobenzene-d5	103.			% Rec.		8270C-S	02/27/13	1
2-Fluorobiphenyl	93.4			% Rec.		8270C-S	02/27/13	1
p-Terphenyl-d14	90.1			% Rec.		8270C-S	02/27/13	1
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	02/26/13	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	02/26/13	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	02/26/13	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	02/26/13	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	02/26/13	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	02/26/13	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	02/26/13	1
PCBs Surrogates								
Decachlorobiphenyl	73.1			% Rec.		8082 A	02/26/13	1
Tetrachloro-m-xylene	77.3			% Rec.		8082 A	02/26/13	1
Total Phthalates	1.6		6.0	ug/l	J	8270 C	02/25/13	1
Bis(2-ethylhexyl)phthalate	1.3	0.71	3.0	ug/l	J	8270 C	02/25/13	1
Benzylbutyl phthalate	U	0.28	3.0	ug/l		8270 C	02/25/13	1
Diethyl phthalate	U	0.28	3.0	ug/l		8270 C	02/25/13	1

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
8910 SW Gemini Drive
Beaverton, OR 97008

March 05, 2013

ESC Sample # : L621775-01

Site ID :

Project # : 15634-00

Date Received : February 23, 2013
Description : Brix Maritime

Sample ID : OUTFALL A

Collected By : Jason R. Miles
Collection Date : 02/22/13 11:04

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dimethyl phthalate	U	0.28	3.0	ug/l		8270 C	02/25/13	1
Di-n-butyl phthalate	0.32	0.27	3.0	ug/l	J	8270 C	02/25/13	1
Di-n-octyl phthalate	U	0.28	3.0	ug/l		8270 C	02/25/13	1
Surrogate Recovery								
Nitrobenzene-d5	54.1			% Rec.		8270 C	02/25/13	1
2-Fluorobiphenyl	63.0			% Rec.		8270 C	02/25/13	1
p-Terphenyl-d14	78.2			% Rec.		8270 C	02/25/13	1

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
8910 SW Gemini Drive
Beaverton, OR 97008

March 05, 2013

ESC Sample # : L621775-02

Date Received : February 23, 2013
Description : Brix Maritime

Site ID :

Sample ID : OUTFALL B

Project # : 15634-00

Collected By : Jason R. Miles
Collection Date : 02/22/13 10:14

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Suspended Solids	9000	350	1000	ug/l		2540 D-	03/01/13	1
Copper	6.4	0.52	2.0	ug/l		6020	02/27/13	1
Lead	1.8	0.24	1.0	ug/l		6020	02/27/13	1
Zinc	97.	2.6	10.	ug/l		6020	02/27/13	1
Gasoline Range Organics-NWTPH	U	32.	100	ug/l		NWTPHGX	02/26/13	1
Surrogate Recovery								
a,a,a-Trifluorotoluene(FID)	97.2			% Rec.		NWTPHGX	02/26/13	1
Volatile Organics								
Acetone	5.4	4.6	50.	ug/l	JJ3	8260B	02/24/13	1
Acrolein	U	8.9	50.	ug/l		8260B	02/24/13	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	02/24/13	1
Benzene	U	0.33	1.0	ug/l		8260B	02/24/13	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	02/24/13	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	02/24/13	1
Bromoform	U	0.47	1.0	ug/l		8260B	02/24/13	1
Bromomethane	U	0.87	5.0	ug/l		8260B	02/24/13	1
n-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/24/13	1
sec-Butylbenzene	U	0.36	1.0	ug/l		8260B	02/24/13	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	02/24/13	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	02/24/13	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	02/24/13	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	02/24/13	1
Chloroethane	U	0.45	5.0	ug/l		8260B	02/24/13	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	02/24/13	1
Chloroform	U	0.32	5.0	ug/l		8260B	02/24/13	1
Chloromethane	U	0.28	2.5	ug/l		8260B	02/24/13	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	02/24/13	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	02/24/13	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	02/24/13	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	02/24/13	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	02/24/13	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	02/24/13	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	02/24/13	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	02/24/13	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	02/24/13	1
1,1-Dichloroethane	U	0.26	1.0	ug/l		8260B	02/24/13	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	02/24/13	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/24/13	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	02/24/13	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	02/24/13	1

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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
8910 SW Gemini Drive
Beaverton, OR 97008

March 05, 2013

ESC Sample # : L621775-02

Date Received : February 23, 2013
Description : Brix Maritime

Site ID :

Sample ID : OUTFALL B

Project # : 15634-00

Collected By : Jason R. Miles
Collection Date : 02/22/13 10:14

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	02/24/13	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	02/24/13	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	02/24/13	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/24/13	1
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	02/24/13	1
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	02/24/13	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	02/24/13	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	02/24/13	1
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l		8260B	02/24/13	1
Isopropylbenzene	U	0.33	1.0	ug/l		8260B	02/24/13	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	02/24/13	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	02/24/13	1
Methylene Chloride	U	0.84	5.0	ug/l		8260B	02/24/13	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	02/24/13	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	02/24/13	1
Naphthalene	U	0.59	5.0	ug/l		8260B	02/24/13	1
n-Propylbenzene	U	0.35	1.0	ug/l		8260B	02/24/13	1
Styrene	U	0.31	1.0	ug/l		8260B	02/24/13	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	02/24/13	1
1,1,2,2-Tetrachloroethane	U	0.58	1.0	ug/l		8260B	02/24/13	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	02/24/13	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	02/24/13	1
Toluene	U	0.78	5.0	ug/l		8260B	02/24/13	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	02/24/13	1
1,2,4-Trichlorobenzene	U	0.21	1.0	ug/l		8260B	02/24/13	1
1,1,1-Trichloroethane	U	0.32	1.0	ug/l		8260B	02/24/13	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	02/24/13	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	02/24/13	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	02/24/13	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	02/24/13	1
1,2,4-Trimethylbenzene	U	0.37	1.0	ug/l		8260B	02/24/13	1
1,2,3-Trimethylbenzene	U	0.32	1.0	ug/l		8260B	02/24/13	1
1,3,5-Trimethylbenzene	U	0.39	1.0	ug/l		8260B	02/24/13	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	02/24/13	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	02/24/13	1
Surrogate Recovery								
Toluene-d8	99.2			% Rec.		8260B	02/24/13	1
Dibromofluoromethane	124.			% Rec.		8260B	02/24/13	1
4-Bromofluorobenzene	108.			% Rec.		8260B	02/24/13	1
Diesel Range Organics (DRO)	120	33.	100	ug/l		NWTPHDX	02/26/13	1
Residual Range Organics (RRO)	340	82.	250	ug/l		NWTPHDX	02/26/13	1
Surrogate Recovery								

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
8910 SW Gemini Drive
Beaverton, OR 97008

March 05, 2013

ESC Sample # : L621775-02

Date Received : February 23, 2013
Description : Brix Maritime

Site ID :

Sample ID : OUTFALL B

Project # : 15634-00

Collected By : Jason R. Miles
Collection Date : 02/22/13 10:14

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
o-Terphenyl	92.2			% Rec.		NWTPHDX	02/26/13	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	0.0092	0.0076	0.050	ug/l	J	8270C-S	02/27/13	1
Acenaphthene	U	0.0082	0.050	ug/l		8270C-S	02/27/13	1
Acenaphthylene	U	0.0068	0.050	ug/l		8270C-S	02/27/13	1
Benzo(a)anthracene	0.031	0.012	0.050	ug/l	J	8270C-S	02/27/13	1
Benzo(a)pyrene	0.025	0.012	0.050	ug/l	J	8270C-S	02/27/13	1
Benzo(b)fluoranthene	0.039	0.014	0.050	ug/l	J	8270C-S	02/27/13	1
Benzo(g,h,i)perylene	0.030	0.011	0.050	ug/l	J	8270C-S	02/27/13	1
Benzo(k)fluoranthene	U	0.014	0.050	ug/l		8270C-S	02/27/13	1
Chrysene	0.030	0.011	0.050	ug/l	J	8270C-S	02/27/13	1
Dibenz(a,h)anthracene	U	0.0040	0.050	ug/l		8270C-S	02/27/13	1
Fluoranthene	0.071	0.016	0.050	ug/l		8270C-S	02/27/13	1
Fluorene	U	0.0085	0.050	ug/l		8270C-S	02/27/13	1
Indeno(1,2,3-cd)pyrene	0.016	0.015	0.050	ug/l	J	8270C-S	02/27/13	1
Naphthalene	0.030	0.020	0.25	ug/l	J	8270C-S	02/27/13	1
Phenanthrene	0.044	0.0082	0.050	ug/l	J	8270C-S	02/27/13	1
Pyrene	0.075	0.012	0.050	ug/l		8270C-S	02/27/13	1
1-Methylnaphthalene	U	0.0082	0.25	ug/l		8270C-S	02/27/13	1
2-Methylnaphthalene	U	0.0090	0.25	ug/l		8270C-S	02/27/13	1
2-Chloronaphthalene	U	0.0065	0.25	ug/l		8270C-S	02/27/13	1
Surrogate Recovery								
Nitrobenzene-d5	108.			% Rec.		8270C-S	02/27/13	1
2-Fluorobiphenyl	93.4			% Rec.		8270C-S	02/27/13	1
p-Terphenyl-d14	88.5			% Rec.		8270C-S	02/27/13	1
Polychlorinated Biphenyls								
PCB 1016	U	0.10	0.50	ug/l		8082 A	02/26/13	1
PCB 1221	U	0.073	0.50	ug/l		8082 A	02/26/13	1
PCB 1232	U	0.042	0.50	ug/l		8082 A	02/26/13	1
PCB 1242	U	0.047	0.50	ug/l		8082 A	02/26/13	1
PCB 1248	U	0.086	0.50	ug/l		8082 A	02/26/13	1
PCB 1254	U	0.047	0.50	ug/l		8082 A	02/26/13	1
PCB 1260	U	0.12	0.50	ug/l		8082 A	02/26/13	1
PCBs Surrogates								
Decachlorobiphenyl	51.7			% Rec.		8082 A	02/26/13	1
Tetrachloro-m-xylene	61.7			% Rec.		8082 A	02/26/13	1
Total Phthalates	1.3		6.0	ug/l	J	8270 C	02/25/13	1
Bis(2-ethylhexyl)phthalate	1.3	0.71	3.0	ug/l	J	8270 C	02/25/13	1
Benzylbutyl phthalate	U	0.28	3.0	ug/l		8270 C	02/25/13	1
Diethyl phthalate	U	0.28	3.0	ug/l		8270 C	02/25/13	1

U = ND (Not Detected)
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REPORT OF ANALYSIS

Leon Lahiere
Hart Crowser - Portland, OR
8910 SW Gemini Drive
Beaverton, OR 97008

March 05, 2013

ESC Sample # : L621775-02

Site ID :

Project # : 15634-00

Date Received : February 23, 2013
Description : Brix Maritime

Sample ID : OUTFALL B

Collected By : Jason R. Miles
Collection Date : 02/22/13 10:14

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dimethyl phthalate	U	0.28	3.0	ug/l		8270 C	02/25/13	1
Di-n-butyl phthalate	U	0.27	3.0	ug/l		8270 C	02/25/13	1
Di-n-octyl phthalate	U	0.28	3.0	ug/l		8270 C	02/25/13	1
Surrogate Recovery								
Nitrobenzene-d5	50.2			% Rec.		8270 C	02/25/13	1
2-Fluorobiphenyl	63.1			% Rec.		8270 C	02/25/13	1
p-Terphenyl-d14	62.2			% Rec.		8270 C	02/25/13	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
MDL = Minimum Detection Limit = LOD = TRRP SDL
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L621775-01	WG638288	SAMP	Diesel Range Organics (DRO)	R2559818	J
	WG638288	SAMP	Residual Range Organics (RRO)	R2559818	J
	WG638235	SAMP	Acetone	R2555179	J3
	WG638291	SAMP	Total Phthalates	R2557197	J
	WG638291	SAMP	Bis(2-ethylhexyl)phthalate	R2557197	J
	WG638291	SAMP	Di-n-butyl phthalate	R2557197	J
	WG638285	SAMP	Benzo(g,h,i)perylene	R2561598	J
	WG638285	SAMP	Naphthalene	R2561598	J
	WG638285	SAMP	Phenanthrene	R2561598	J
	WG638285	SAMP	Pyrene	R2561598	J
	WG638285	SAMP	1-Methylnaphthalene	R2561598	J
	WG638285	SAMP	2-Methylnaphthalene	R2561598	J
L621775-02	WG638235	SAMP	Acetone	R2555179	JJ3
	WG638291	SAMP	Total Phthalates	R2557197	J
	WG638291	SAMP	Bis(2-ethylhexyl)phthalate	R2557197	J
	WG638285	SAMP	Anthracene	R2561598	J
	WG638285	SAMP	Benzo(a)anthracene	R2561598	J
	WG638285	SAMP	Benzo(a)pyrene	R2561598	J
	WG638285	SAMP	Benzo(b)fluoranthene	R2561598	J
	WG638285	SAMP	Benzo(g,h,i)perylene	R2561598	J
	WG638285	SAMP	Chrysene	R2561598	J
	WG638285	SAMP	Indeno(1,2,3-cd)pyrene	R2561598	J
	WG638285	SAMP	Naphthalene	R2561598	J
	WG638285	SAMP	Phenanthrene	R2561598	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Level II

L621775

March 05, 2013

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG638235	02/24/13 00:43
1,1,1-Trichloroethane	< .001	mg/l			WG638235	02/24/13 00:43
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG638235	02/24/13 00:43
1,1,2-Trichloroethane	< .001	mg/l			WG638235	02/24/13 00:43
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG638235	02/24/13 00:43
1,1-Dichloroethane	< .001	mg/l			WG638235	02/24/13 00:43
1,1-Dichloroethene	< .001	mg/l			WG638235	02/24/13 00:43
1,1-Dichloropropene	< .001	mg/l			WG638235	02/24/13 00:43
1,2,3-Trichlorobenzene	< .001	mg/l			WG638235	02/24/13 00:43
1,2,3-Trichloropropane	< .001	mg/l			WG638235	02/24/13 00:43
1,2,3-Trimethylbenzene	< .001	mg/l			WG638235	02/24/13 00:43
1,2,4-Trichlorobenzene	< .001	mg/l			WG638235	02/24/13 00:43
1,2,4-Trimethylbenzene	< .001	mg/l			WG638235	02/24/13 00:43
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG638235	02/24/13 00:43
1,2-Dibromoethane	< .001	mg/l			WG638235	02/24/13 00:43
1,2-Dichlorobenzene	< .001	mg/l			WG638235	02/24/13 00:43
1,2-Dichloroethane	< .001	mg/l			WG638235	02/24/13 00:43
1,2-Dichloropropane	< .001	mg/l			WG638235	02/24/13 00:43
1,3,5-Trimethylbenzene	< .001	mg/l			WG638235	02/24/13 00:43
1,3-Dichlorobenzene	< .001	mg/l			WG638235	02/24/13 00:43
1,3-Dichloropropane	< .001	mg/l			WG638235	02/24/13 00:43
1,4-Dichlorobenzene	< .001	mg/l			WG638235	02/24/13 00:43
2,2-Dichloropropane	< .001	mg/l			WG638235	02/24/13 00:43
2-Butanone (MEK)	< .01	mg/l			WG638235	02/24/13 00:43
2-Chloroethyl vinyl ether	< .05	mg/l			WG638235	02/24/13 00:43
2-Chlorotoluene	< .001	mg/l			WG638235	02/24/13 00:43
4-Chlorotoluene	< .001	mg/l			WG638235	02/24/13 00:43
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG638235	02/24/13 00:43
Acetone	< .05	mg/l			WG638235	02/24/13 00:43
Acrolein	< .025	mg/l			WG638235	02/24/13 00:43
Acrylonitrile	< .01	mg/l			WG638235	02/24/13 00:43
Benzene	< .001	mg/l			WG638235	02/24/13 00:43
Bromobenzene	< .001	mg/l			WG638235	02/24/13 00:43
Bromodichloromethane	< .001	mg/l			WG638235	02/24/13 00:43
Bromoform	< .001	mg/l			WG638235	02/24/13 00:43
Bromomethane	< .005	mg/l			WG638235	02/24/13 00:43
Carbon tetrachloride	< .001	mg/l			WG638235	02/24/13 00:43
Chlorobenzene	< .001	mg/l			WG638235	02/24/13 00:43
Chlorodibromomethane	< .001	mg/l			WG638235	02/24/13 00:43
Chloroethane	< .005	mg/l			WG638235	02/24/13 00:43
Chloroform	< .005	mg/l			WG638235	02/24/13 00:43
Chloromethane	< .0025	mg/l			WG638235	02/24/13 00:43
cis-1,2-Dichloroethene	< .001	mg/l			WG638235	02/24/13 00:43
cis-1,3-Dichloropropene	< .001	mg/l			WG638235	02/24/13 00:43
Di-isopropyl ether	< .001	mg/l			WG638235	02/24/13 00:43
Dibromomethane	< .001	mg/l			WG638235	02/24/13 00:43
Dichlorodifluoromethane	< .005	mg/l			WG638235	02/24/13 00:43
Ethylbenzene	< .001	mg/l			WG638235	02/24/13 00:43
Hexachloro-1,3-butadiene	< .001	mg/l			WG638235	02/24/13 00:43
Isopropylbenzene	< .001	mg/l			WG638235	02/24/13 00:43
Methyl tert-butyl ether	< .001	mg/l			WG638235	02/24/13 00:43
Methylene Chloride	< .005	mg/l			WG638235	02/24/13 00:43
n-Butylbenzene	< .001	mg/l			WG638235	02/24/13 00:43
n-Propylbenzene	< .001	mg/l			WG638235	02/24/13 00:43
Naphthalene	< .005	mg/l			WG638235	02/24/13 00:43
p-Isopropyltoluene	< .001	mg/l			WG638235	02/24/13 00:43
sec-Butylbenzene	< .001	mg/l			WG638235	02/24/13 00:43
Styrene	< .001	mg/l			WG638235	02/24/13 00:43
tert-Butylbenzene	< .001	mg/l			WG638235	02/24/13 00:43

* Performance of this Analyte is outside of established criteria.
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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Tetrachloroethene	< .001	mg/l			WG638235	02/24/13 00:43
Toluene	< .005	mg/l			WG638235	02/24/13 00:43
trans-1,2-Dichloroethene	< .001	mg/l			WG638235	02/24/13 00:43
trans-1,3-Dichloropropene	< .001	mg/l			WG638235	02/24/13 00:43
Trichloroethene	< .001	mg/l			WG638235	02/24/13 00:43
Trichlorofluoromethane	< .005	mg/l			WG638235	02/24/13 00:43
Vinyl chloride	< .001	mg/l			WG638235	02/24/13 00:43
Xylenes, Total	< .003	mg/l			WG638235	02/24/13 00:43
4-Bromofluorobenzene		% Rec.	100.9	82-120	WG638235	02/24/13 00:43
Dibromofluoromethane		% Rec.	105.0	82-126	WG638235	02/24/13 00:43
Toluene-d8		% Rec.	98.21	92-112	WG638235	02/24/13 00:43
Benzylbutyl phthalate	< .003	mg/l			WG638291	02/25/13 11:17
Bis(2-ethylhexyl)phthalate	< .003	mg/l			WG638291	02/25/13 11:17
Di-n-butyl phthalate	< .003	mg/l			WG638291	02/25/13 11:17
Di-n-octyl phthalate	< .003	mg/l			WG638291	02/25/13 11:17
Diethyl phthalate	< .003	mg/l			WG638291	02/25/13 11:17
Dimethyl phthalate	< .003	mg/l			WG638291	02/25/13 11:17
2,4,6-Tribromophenol		% Rec.	46.80	16-147	WG638291	02/25/13 11:17
2-Fluorobiphenyl		% Rec.	72.00	29-127	WG638291	02/25/13 11:17
2-Fluorophenol		% Rec.	35.20	10-75	WG638291	02/25/13 11:17
Nitrobenzene-d5		% Rec.	58.60	17-119	WG638291	02/25/13 11:17
Phenol-d5		% Rec.	24.90	10-63	WG638291	02/25/13 11:17
p-Terphenyl-d14		% Rec.	80.00	40-174	WG638291	02/25/13 11:17
Gasoline Range Organics-NWTPH	< .1	mg/l			WG638489	02/26/13 12:41
a,a,a-Trifluorotoluene(FID)		% Rec.	97.91	62-128	WG638489	02/26/13 12:41
Diesel Range Organics (DRO)	< .1	mg/l			WG638288	02/26/13 15:06
Residual Range Organics (RRO)	< .25	mg/l			WG638288	02/26/13 15:06
o-Terphenyl		% Rec.	91.60	50-150	WG638288	02/26/13 15:06
Copper	< .002	mg/l			WG638476	02/26/13 22:07
Lead	< .001	mg/l			WG638476	02/26/13 22:07
Zinc	< .01	mg/l			WG638476	02/26/13 22:07
1-Methylnaphthalene	< .00025	mg/l			WG638285	02/27/13 10:10
2-Chloronaphthalene	< .00005	mg/l			WG638285	02/27/13 10:10
2-Methylnaphthalene	< .00025	mg/l			WG638285	02/27/13 10:10
Acenaphthene	< .00005	mg/l			WG638285	02/27/13 10:10
Acenaphthylene	< .00005	mg/l			WG638285	02/27/13 10:10
Anthracene	< .00005	mg/l			WG638285	02/27/13 10:10
Benzo(a)anthracene	< .00005	mg/l			WG638285	02/27/13 10:10
Benzo(a)pyrene	< .00005	mg/l			WG638285	02/27/13 10:10
Benzo(b)fluoranthene	< .00005	mg/l			WG638285	02/27/13 10:10
Benzo(g,h,i)perylene	< .00005	mg/l			WG638285	02/27/13 10:10
Benzo(k)fluoranthene	< .00005	mg/l			WG638285	02/27/13 10:10
Chrysene	< .00005	mg/l			WG638285	02/27/13 10:10
Dibenz(a,h)anthracene	< .00005	mg/l			WG638285	02/27/13 10:10
Fluoranthene	< .00005	mg/l			WG638285	02/27/13 10:10
Fluorene	< .00005	mg/l			WG638285	02/27/13 10:10
Indeno(1,2,3-cd)pyrene	< .00005	mg/l			WG638285	02/27/13 10:10
Naphthalene	< .00025	mg/l			WG638285	02/27/13 10:10
Phenanthrene	< .00005	mg/l			WG638285	02/27/13 10:10

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Pyrene	< .00005	mg/l			WG638285	02/27/13 10:10
2-Fluorobiphenyl		% Rec.	87.80	64.4-143	WG638285	02/27/13 10:10
Nitrobenzene-d5		% Rec.	88.20	61.3-162	WG638285	02/27/13 10:10
p-Terphenyl-d14		% Rec.	97.30	55.3-145	WG638285	02/27/13 10:10
Suspended Solids	< 1	mg/l			WG638407	03/01/13 09:24
PCB 1016	< .0005	mg/l			WG638039	02/26/13 10:41
PCB 1221	< .0005	mg/l			WG638039	02/26/13 10:41
PCB 1232	< .0005	mg/l			WG638039	02/26/13 10:41
PCB 1242	< .0005	mg/l			WG638039	02/26/13 10:41
PCB 1248	< .0005	mg/l			WG638039	02/26/13 10:41
PCB 1254	< .0005	mg/l			WG638039	02/26/13 10:41
PCB 1260	< .0005	mg/l			WG638039	02/26/13 10:41
Decachlorobiphenyl		% Rec.	98.90	10-141	WG638039	02/26/13 10:41
Tetrachloro-m-xylene		% Rec.	78.70	10-125	WG638039	02/26/13 10:41

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Copper	mg/l	0.00350	0.00340	2.90	20	L621709-02	WG638476
Lead	mg/l	0	0.000130	NA	20	L621709-02	WG638476
Zinc	mg/l	0.260	0.260	0	20	L621709-02	WG638476
Suspended Solids	mg/l	8000	7740	3.30	5	L621762-01	WG638407
Suspended Solids	mg/l	60.0	60.8	1.38	5	L621827-01	WG638407

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0224	89.6	77-128	WG638235
1,1,1-Trichloroethane	mg/l	.025	0.0230	92.0	71-126	WG638235
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0228	91.1	78-130	WG638235
1,1,2-Trichloroethane	mg/l	.025	0.0236	94.3	81-121	WG638235
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0188	75.4	53-143	WG638235
1,1-Dichloroethane	mg/l	.025	0.0247	98.8	73-123	WG638235
1,1-Dichloroethene	mg/l	.025	0.0233	93.1	54-134	WG638235
1,1-Dichloropropene	mg/l	.025	0.0243	97.3	67-127	WG638235
1,2,3-Trichlorobenzene	mg/l	.025	0.0221	88.4	77-130	WG638235
1,2,3-Trichloropropane	mg/l	.025	0.0229	91.7	68-130	WG638235
1,2,3-Trimethylbenzene	mg/l	.025	0.0228	91.3	77-126	WG638235
1,2,4-Trichlorobenzene	mg/l	.025	0.0243	97.4	76-127	WG638235
1,2,4-Trimethylbenzene	mg/l	.025	0.0229	91.6	77-129	WG638235
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0223	89.3	55-142	WG638235
1,2-Dibromoethane	mg/l	.025	0.0244	97.6	78-124	WG638235
1,2-Dichlorobenzene	mg/l	.025	0.0239	95.8	82-121	WG638235
1,2-Dichloroethane	mg/l	.025	0.0257	103.	69-128	WG638235
1,2-Dichloropropane	mg/l	.025	0.0218	87.3	77-121	WG638235
1,3,5-Trimethylbenzene	mg/l	.025	0.0227	90.7	78-127	WG638235
1,3-Dichlorobenzene	mg/l	.025	0.0240	96.0	77-127	WG638235
1,3-Dichloropropane	mg/l	.025	0.0253	101.	78-117	WG638235
1,4-Dichlorobenzene	mg/l	.025	0.0234	93.4	79-117	WG638235
2,2-Dichloropropane	mg/l	.025	0.0232	92.7	63-130	WG638235
2-Butanone (MEK)	mg/l	.125	0.131	105.	58-144	WG638235
2-Chloroethyl vinyl ether	mg/l	.125	0.115	91.9	26-172	WG638235
2-Chlorotoluene	mg/l	.025	0.0244	97.6	78-123	WG638235

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Hart Crowser - Portland, OR
Leon Lahiere
8910 SW Gemini Drive

Beaverton, OR 97008

Quality Assurance Report
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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
4-Chlorotoluene	mg/l	.025	0.0233	93.1	78-122	WG638235
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.117	93.7	58-147	WG638235
Acetone	mg/l	.125	0.139	111.	49-153	WG638235
Acrolein	mg/l	.125	0.108	86.5	10-181	WG638235
Acrylonitrile	mg/l	.125	0.112	89.2	53-153	WG638235
Benzene	mg/l	.025	0.0245	98.1	72-119	WG638235
Bromobenzene	mg/l	.025	0.0228	91.0	76-121	WG638235
Bromodichloromethane	mg/l	.025	0.0231	92.4	75-127	WG638235
Bromoform	mg/l	.025	0.0211	84.4	61-136	WG638235
Bromomethane	mg/l	.025	0.0264	106.	42-172	WG638235
Carbon tetrachloride	mg/l	.025	0.0221	88.3	63-129	WG638235
Chlorobenzene	mg/l	.025	0.0246	98.3	78-123	WG638235
Chlorodibromomethane	mg/l	.025	0.0221	88.4	73-128	WG638235
Chloroethane	mg/l	.025	0.0216	86.2	52-164	WG638235
Chloroform	mg/l	.025	0.0240	95.9	76-122	WG638235
Chloromethane	mg/l	.025	0.0212	84.8	50-141	WG638235
cis-1,2-Dichloroethene	mg/l	.025	0.0224	89.7	75-121	WG638235
cis-1,3-Dichloropropene	mg/l	.025	0.0238	95.3	74-124	WG638235
Di-isopropyl ether	mg/l	.025	0.0245	97.8	66-129	WG638235
Dibromomethane	mg/l	.025	0.0226	90.3	77-124	WG638235
Dichlorodifluoromethane	mg/l	.025	0.0231	92.2	33-173	WG638235
Ethylbenzene	mg/l	.025	0.0235	93.8	77-124	WG638235
Hexachloro-1,3-butadiene	mg/l	.025	0.0208	83.1	71-134	WG638235
Isopropylbenzene	mg/l	.025	0.0234	93.8	74-126	WG638235
Methyl tert-butyl ether	mg/l	.025	0.0244	97.8	67-127	WG638235
Methylene Chloride	mg/l	.025	0.0251	101.	67-122	WG638235
n-Butylbenzene	mg/l	.025	0.0240	95.9	74-130	WG638235
n-Propylbenzene	mg/l	.025	0.0238	95.2	77-125	WG638235
Naphthalene	mg/l	.025	0.0219	87.5	70-134	WG638235
p-Isopropyltoluene	mg/l	.025	0.0230	92.2	77-132	WG638235
sec-Butylbenzene	mg/l	.025	0.0232	92.6	77-130	WG638235
Styrene	mg/l	.025	0.0237	94.7	69-145	WG638235
tert-Butylbenzene	mg/l	.025	0.0229	91.5	76-131	WG638235
Tetrachloroethene	mg/l	.025	0.0237	94.8	69-131	WG638235
Toluene	mg/l	.025	0.0236	94.6	75-114	WG638235
trans-1,2-Dichloroethene	mg/l	.025	0.0230	91.8	63-127	WG638235
trans-1,3-Dichloropropene	mg/l	.025	0.0254	102.	69-124	WG638235
Trichloroethene	mg/l	.025	0.0245	98.0	69-131	WG638235
Trichlorofluoromethane	mg/l	.025	0.0250	100.	53-161	WG638235
Vinyl chloride	mg/l	.025	0.0230	92.2	55-142	WG638235
Xylenes, Total	mg/l	.075	0.0707	94.2	77-123	WG638235
4-Bromofluorobenzene				97.69	82-120	WG638235
Dibromofluoromethane				104.0	82-126	WG638235
Toluene-d8				97.78	92-112	WG638235
Benzylbutyl phthalate	mg/l	.01	0.00587	58.7	10-178	WG638291
Bis(2-ethylhexyl)phthalate	mg/l	.01	0.00721	72.1	42-191	WG638291
Di-n-butyl phthalate	mg/l	.01	0.00682	68.2	33-175	WG638291
Di-n-octyl phthalate	mg/l	.01	0.00611	61.1	40-170	WG638291
Diethyl phthalate	mg/l	.01	0.00734	73.4	10-182	WG638291
Dimethyl phthalate	mg/l	.01	0.00728	72.8	10-165	WG638291
2,4,6-Tribromophenol				59.40	16-147	WG638291
2-Fluorobiphenyl				69.70	29-127	WG638291
2-Fluorophenol				37.00	10-75	WG638291
Nitrobenzene-d5				63.60	17-119	WG638291
Phenol-d5				25.80	10-63	WG638291
p-Terphenyl-d14				72.60	40-174	WG638291

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Gasoline Range Organics-NWTPH	mg/l	5.5	6.10	111.	70-124	WG638489
a,a,a-Trifluorotoluene(FID)				105.6	62-128	WG638489
Diesel Range Organics (DRO)	mg/l	.75	0.655	87.3	50-150	WG638288
Residual Range Organics (RRO)	mg/l	.75	0.650	86.6	50-150	WG638288
o-Terphenyl				90.10	50-150	WG638288
Copper	mg/l	.0556	0.0566	102.	85-115	WG638476
Lead	mg/l	.0556	0.0520	93.5	85-115	WG638476
Zinc	mg/l	.0556	0.0583	105.	85-115	WG638476
1-Methylnaphthalene	mg/l	.002	0.00168	83.9	71.2-137	WG638285
2-Chloronaphthalene	mg/l	.002	0.00175	87.7	81.1-129	WG638285
2-Methylnaphthalene	mg/l	.002	0.00163	81.7	69.8-134	WG638285
Acenaphthene	mg/l	.002	0.00187	93.3	80.8-128	WG638285
Acenaphthylene	mg/l	.002	0.00182	90.8	77.2-132	WG638285
Anthracene	mg/l	.002	0.00197	98.6	78.4-136	WG638285
Benzo(a)anthracene	mg/l	.002	0.00199	99.3	69.2-141	WG638285
Benzo(a)pyrene	mg/l	.002	0.00201	100.	71.1-135	WG638285
Benzo(b)fluoranthene	mg/l	.002	0.00207	103.	69.5-140	WG638285
Benzo(g,h,i)perylene	mg/l	.002	0.00208	104.	64.6-138	WG638285
Benzo(k)fluoranthene	mg/l	.002	0.00203	102.	69.3-144	WG638285
Chrysene	mg/l	.002	0.00204	102.	75.6-138	WG638285
Dibenz(a,h)anthracene	mg/l	.002	0.00211	105.	64.1-139	WG638285
Fluoranthene	mg/l	.002	0.00200	100.	78.6-135	WG638285
Fluorene	mg/l	.002	0.00195	97.4	78.3-131	WG638285
Indeno(1,2,3-cd)pyrene	mg/l	.002	0.00212	106.	64.8-140	WG638285
Naphthalene	mg/l	.002	0.00174	86.9	80.2-126	WG638285
Phenanthrene	mg/l	.002	0.00198	98.9	79.6-130	WG638285
Pyrene	mg/l	.002	0.00203	101.	76.6-134	WG638285
2-Fluorobiphenyl				86.80	64.4-143	WG638285
Nitrobenzene-d5				89.20	61.3-162	WG638285
p-Terphenyl-d14				98.90	55.3-145	WG638285
Suspended Solids	mg/l	773	844.	109.	85-115	WG638407
PCB 1016	mg/l	.0005	0.000473	94.5	32-126	WG638039
PCB 1260	mg/l	.0005	0.000506	101.	58-128	WG638039
Decachlorobiphenyl				106.0	10-141	WG638039
Tetrachloro-m-xylene				74.00	10-125	WG638039

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0228	0.0224	91.0	77-128	1.72	20	WG638235
1,1,1-Trichloroethane	mg/l	0.0226	0.0230	90.0	71-126	1.99	20	WG638235
1,1,2,2-Tetrachloroethane	mg/l	0.0230	0.0228	92.0	78-130	0.850	20	WG638235
1,1,2-Trichloroethane	mg/l	0.0238	0.0236	95.0	81-121	0.780	20	WG638235
1,1,2-Trichlorotrifluoroethane	mg/l	0.0191	0.0188	76.0	53-143	1.25	20	WG638235
1,1-Dichloroethane	mg/l	0.0252	0.0247	101.	73-123	2.18	20	WG638235
1,1-Dichloroethene	mg/l	0.0220	0.0233	88.0	54-134	5.55	20	WG638235
1,1-Dichloropropene	mg/l	0.0247	0.0243	99.0	67-127	1.62	20	WG638235
1,2,3-Trichlorobenzene	mg/l	0.0229	0.0221	92.0	77-130	3.58	20	WG638235

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Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,2,3-Trichloropropane	mg/l	0.0252	0.0229	101.	68-130	9.53	20	WG638235
1,2,3-Trimethylbenzene	mg/l	0.0232	0.0228	93.0	77-126	1.53	20	WG638235
1,2,4-Trichlorobenzene	mg/l	0.0252	0.0243	101.	76-127	3.64	20	WG638235
1,2,4-Trimethylbenzene	mg/l	0.0227	0.0229	91.0	77-129	0.970	20	WG638235
1,2-Dibromo-3-Chloropropane	mg/l	0.0243	0.0223	97.0	55-142	8.59	20	WG638235
1,2-Dibromoethane	mg/l	0.0259	0.0244	103.	78-124	5.80	20	WG638235
1,2-Dichlorobenzene	mg/l	0.0244	0.0239	98.0	82-121	2.02	20	WG638235
1,2-Dichloroethane	mg/l	0.0263	0.0257	105.	69-128	2.26	20	WG638235
1,2-Dichloropropane	mg/l	0.0221	0.0218	88.0	77-121	1.19	20	WG638235
1,3,5-Trimethylbenzene	mg/l	0.0227	0.0227	91.0	78-127	0.250	20	WG638235
1,3-Dichlorobenzene	mg/l	0.0237	0.0240	95.0	77-127	1.40	20	WG638235
1,3-Dichloropropane	mg/l	0.0251	0.0253	100.	78-117	0.710	20	WG638235
1,4-Dichlorobenzene	mg/l	0.0241	0.0234	96.0	79-117	3.32	20	WG638235
2,2-Dichloropropane	mg/l	0.0233	0.0232	93.0	63-130	0.370	20	WG638235
2-Butanone (MEK)	mg/l	0.149	0.131	119.	58-144	12.8	20	WG638235
2-Chloroethyl vinyl ether	mg/l	0.127	0.115	101.	26-172	9.90	22	WG638235
2-Chlorotoluene	mg/l	0.0240	0.0244	96.0	78-123	1.75	20	WG638235
4-Chlorotoluene	mg/l	0.0233	0.0233	93.0	78-122	0.160	20	WG638235
4-Methyl-2-pentanone (MIBK)	mg/l	0.131	0.117	104.	58-147	10.9	20	WG638235
Acetone	mg/l	0.174	0.139	139.	49-153	22.0*	21	WG638235
Acrolein	mg/l	0.125	0.108	100.	10-181	14.7	30	WG638235
Acrylonitrile	mg/l	0.123	0.112	98.0	53-153	9.41	20	WG638235
Benzene	mg/l	0.0242	0.0245	97.0	72-119	1.15	20	WG638235
Bromobenzene	mg/l	0.0223	0.0228	89.0	76-121	1.81	20	WG638235
Bromodichloromethane	mg/l	0.0237	0.0231	95.0	75-127	2.50	20	WG638235
Bromoform	mg/l	0.0224	0.0211	90.0	61-136	6.19	20	WG638235
Bromomethane	mg/l	0.0259	0.0264	104.	42-172	1.71	20	WG638235
Carbon tetrachloride	mg/l	0.0226	0.0221	90.0	63-129	2.35	20	WG638235
Chlorobenzene	mg/l	0.0242	0.0246	97.0	78-123	1.36	20	WG638235
Chlorodibromomethane	mg/l	0.0225	0.0221	90.0	73-128	1.96	20	WG638235
Chloroethane	mg/l	0.0215	0.0216	86.0	52-164	0.0600	20	WG638235
Chloroform	mg/l	0.0243	0.0240	97.0	76-122	1.60	20	WG638235
Chloromethane	mg/l	0.0213	0.0212	85.0	50-141	0.270	20	WG638235
cis-1,2-Dichloroethene	mg/l	0.0233	0.0224	93.0	75-121	3.65	20	WG638235
cis-1,3-Dichloropropene	mg/l	0.0249	0.0238	100.	74-124	4.41	20	WG638235
Di-isopropyl ether	mg/l	0.0249	0.0245	99.0	66-129	1.63	20	WG638235
Dibromomethane	mg/l	0.0229	0.0226	92.0	77-124	1.36	20	WG638235
Dichlorodifluoromethane	mg/l	0.0234	0.0231	94.0	33-173	1.44	20	WG638235
Ethylbenzene	mg/l	0.0227	0.0235	91.0	77-124	3.21	20	WG638235
Hexachloro-1,3-butadiene	mg/l	0.0217	0.0208	87.0	71-134	4.23	20	WG638235
Isopropylbenzene	mg/l	0.0235	0.0234	94.0	74-126	0.440	20	WG638235
Methyl tert-butyl ether	mg/l	0.0253	0.0244	101.	67-127	3.61	20	WG638235
Methylene Chloride	mg/l	0.0262	0.0251	105.	67-122	4.26	20	WG638235
n-Butylbenzene	mg/l	0.0241	0.0240	96.0	74-130	0.670	20	WG638235
n-Propylbenzene	mg/l	0.0232	0.0238	93.0	77-125	2.44	20	WG638235
Naphthalene	mg/l	0.0230	0.0219	92.0	70-134	5.06	20	WG638235
p-Isopropyltoluene	mg/l	0.0229	0.0230	92.0	77-132	0.700	20	WG638235
sec-Butylbenzene	mg/l	0.0229	0.0232	92.0	77-130	1.12	20	WG638235
Styrene	mg/l	0.0237	0.0237	95.0	69-145	0.0500	20	WG638235
tert-Butylbenzene	mg/l	0.0225	0.0229	90.0	76-131	1.81	20	WG638235
Tetrachloroethene	mg/l	0.0229	0.0237	92.0	69-131	3.38	20	WG638235
Toluene	mg/l	0.0241	0.0236	96.0	75-114	2.08	20	WG638235
trans-1,2-Dichloroethene	mg/l	0.0235	0.0230	94.0	63-127	2.16	20	WG638235
trans-1,3-Dichloropropene	mg/l	0.0255	0.0254	102.	69-124	0.360	20	WG638235
Trichloroethene	mg/l	0.0240	0.0245	96.0	69-131	2.20	20	WG638235
Trichlorofluoromethane	mg/l	0.0247	0.0250	99.0	53-161	1.32	20	WG638235
Vinyl chloride	mg/l	0.0226	0.0230	90.0	55-142	1.77	20	WG638235
Xylenes, Total	mg/l	0.0701	0.0707	93.0	77-123	0.830	20	WG638235
4-Bromofluorobenzene				97.51	82-120			WG638235

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		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Dibromofluoromethane				103.1	82-126			
Toluene-d8				99.18	92-112			
Benzylbutyl phthalate	mg/l	0.00609	0.00587	61.0	10-178	3.75	40	WG638291
Bis(2-ethylhexyl)phthalate	mg/l	0.00743	0.00721	74.0	42-191	2.95	33	WG638291
Di-n-butyl phthalate	mg/l	0.00669	0.00682	67.0	33-175	1.93	39	WG638291
Di-n-octyl phthalate	mg/l	0.00614	0.00611	61.0	40-170	0.500	28	WG638291
Diethyl phthalate	mg/l	0.00699	0.00734	70.0	10-182	4.88	35	WG638291
Dimethyl phthalate	mg/l	0.00658	0.00728	66.0	10-165	10.1	37	WG638291
2,4,6-Tribromophenol				56.90	16-147			WG638291
2-Fluorobiphenyl				65.90	29-127			WG638291
2-Fluorophenol				32.10	10-75			WG638291
Nitrobenzene-d5				55.90	17-119			WG638291
Phenol-d5				23.20	10-63			WG638291
p-Terphenyl-d14				69.00	40-174			WG638291
Gasoline Range Organics-NWTPH	mg/l	5.98	6.10	109.	70-124	2.09	20	WG638489
a,a,a-Trifluorotoluene(FID)				105.3	62-128			WG638489
Diesel Range Organics (DRO)	mg/l	0.625	0.655	83.0	50-150	4.63	20	WG638288
Residual Range Organics (RRO)	mg/l	0.601	0.650	80.0	50-150	7.79	20	WG638288
o-Terphenyl				86.00	50-150			WG638288
1-Methylnaphthalene	mg/l	0.00178	0.00168	89.0	71.2-137	6.13	20	WG638285
2-Chloronaphthalene	mg/l	0.00190	0.00175	95.0	81.1-129	8.01	20	WG638285
2-Methylnaphthalene	mg/l	0.00176	0.00163	88.0	69.8-134	7.20	20	WG638285
Acenaphthene	mg/l	0.00190	0.00187	95.0	80.8-128	1.95	20	WG638285
Acenaphthylene	mg/l	0.00182	0.00182	91.0	77.2-132	0.0400	20	WG638285
Anthracene	mg/l	0.00194	0.00197	97.0	78.4-136	1.56	20	WG638285
Benzo(a)anthracene	mg/l	0.00191	0.00199	96.0	69.2-141	3.90	20	WG638285
Benzo(a)pyrene	mg/l	0.00198	0.00201	99.0	71.1-135	1.42	20	WG638285
Benzo(b)fluoranthene	mg/l	0.00199	0.00207	100.	69.5-140	3.86	20	WG638285
Benzo(g,h,i)perylene	mg/l	0.00197	0.00208	98.0	64.6-138	5.53	20	WG638285
Benzo(k)fluoranthene	mg/l	0.00200	0.00203	100.	69.3-144	1.69	20	WG638285
Chrysene	mg/l	0.00197	0.00204	99.0	75.6-138	3.36	20	WG638285
Dibenz(a,h)anthracene	mg/l	0.00196	0.00211	98.0	64.1-139	7.17	20	WG638285
Fluoranthene	mg/l	0.00194	0.00200	97.0	78.6-135	3.12	20	WG638285
Fluorene	mg/l	0.00191	0.00195	96.0	78.3-131	1.91	20	WG638285
Indeno(1,2,3-cd)pyrene	mg/l	0.00200	0.00212	100.	64.8-140	5.87	20	WG638285
Naphthalene	mg/l	0.00191	0.00174	95.0	80.2-126	9.24	20	WG638285
Phenanthrene	mg/l	0.00195	0.00198	97.0	79.6-130	1.54	20	WG638285
Pyrene	mg/l	0.00198	0.00203	99.0	76.6-134	2.52	20	WG638285
2-Fluorobiphenyl				80.70	64.4-143			WG638285
Nitrobenzene-d5				93.50	61.3-162			WG638285
p-Terphenyl-d14				91.40	55.3-145			WG638285
Suspended Solids	mg/l	856.	844.	111.	85-115	1.41	5	WG638407
PCB 1016	mg/l	0.000406	0.000473	81.0	32-126	15.1	22	WG638039
PCB 1260	mg/l	0.000502	0.000506	100.	58-128	0.640	20	WG638039
Decachlorobiphenyl				89.00	10-141			WG638039
Tetrachloro-m-xylene				74.40	10-125			WG638039

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Quality Assurance Report
Level II

L621775

March 05, 2013

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0218	0	.025	87.2	71-130	L621766-18	WG638235
1,1,1-Trichloroethane	mg/l	0.0227	0	.025	91.0	58-137	L621766-18	WG638235
1,1,2,2-Tetrachloroethane	mg/l	0.0233	0	.025	93.0	64-149	L621766-18	WG638235
1,1,2-Trichloroethane	mg/l	0.0235	0	.025	94.0	73-128	L621766-18	WG638235
1,1,2-Trichlorotrifluoroethane	mg/l	0.0216	0	.025	86.6	36-159	L621766-18	WG638235
1,1-Dichloroethane	mg/l	0.0235	0	.025	94.2	58-133	L621766-18	WG638235
1,1-Dichloroethene	mg/l	0.0212	0	.025	84.8	32-152	L621766-18	WG638235
1,1-Dichloropropene	mg/l	0.0235	0	.025	94.0	50-140	L621766-18	WG638235
1,2,3-Trichlorobenzene	mg/l	0.0212	0	.025	84.6	68-135	L621766-18	WG638235
1,2,3-Trichloropropane	mg/l	0.0233	0	.025	93.2	74-137	L621766-18	WG638235
1,2,3-Trimethylbenzene	mg/l	0.0218	0	.025	87.3	67-133	L621766-18	WG638235
1,2,4-Trichlorobenzene	mg/l	0.0236	0	.025	94.2	67-133	L621766-18	WG638235
1,2,4-Trimethylbenzene	mg/l	0.0222	0	.025	88.8	62-141	L621766-18	WG638235
1,2-Dibromo-3-Chloropropane	mg/l	0.0243	0	.025	97.2	55-148	L621766-18	WG638235
1,2-Dibromoethane	mg/l	0.0247	0	.025	98.9	71-129	L621766-18	WG638235
1,2-Dichlorobenzene	mg/l	0.0227	0	.025	90.8	75-125	L621766-18	WG638235
1,2-Dichloroethane	mg/l	0.0250	0	.025	100.	59-135	L621766-18	WG638235
1,2-Dichloropropane	mg/l	0.0208	0	.025	83.2	68-126	L621766-18	WG638235
1,3,5-Trimethylbenzene	mg/l	0.0219	0	.025	87.8	67-136	L621766-18	WG638235
1,3-Dichlorobenzene	mg/l	0.0230	0	.025	91.9	69-131	L621766-18	WG638235
1,3-Dichloropropane	mg/l	0.0248	0	.025	99.4	70-122	L621766-18	WG638235
1,4-Dichlorobenzene	mg/l	0.0223	0	.025	89.3	70-123	L621766-18	WG638235
2,2-Dichloropropane	mg/l	0.0224	0	.025	89.7	51-141	L621766-18	WG638235
2-Butanone (MEK)	mg/l	0.101	0	.125	80.8	51-149	L621766-18	WG638235
2-Chloroethyl vinyl ether	mg/l	0.00179	0	.125	1.43*	10-161	L621766-18	WG638235
2-Chlorotoluene	mg/l	0.0229	0	.025	91.6	65-133	L621766-18	WG638235
4-Chlorotoluene	mg/l	0.0225	0	.025	90.0	67-129	L621766-18	WG638235
4-Methyl-2-pentanone (MIBK)	mg/l	0.118	0	.125	94.7	53-154	L621766-18	WG638235
Acetone	mg/l	0.0652	0.00650	.125	46.9	34-146	L621766-18	WG638235
Acrolein	mg/l	0.119	0	.125	95.1	10-189	L621766-18	WG638235
Acrylonitrile	mg/l	0.119	0	.125	95.1	49-162	L621766-18	WG638235
Benzene	mg/l	0.0235	0	.025	94.1	51-134	L621766-18	WG638235
Bromobenzene	mg/l	0.0218	0	.025	87.2	64-130	L621766-18	WG638235
Bromodichloromethane	mg/l	0.0218	0	.025	87.1	67-132	L621766-18	WG638235
Bromoform	mg/l	0.0220	0	.025	88.1	59-137	L621766-18	WG638235
Bromomethane	mg/l	0.0270	0	.025	108.	23-177	L621766-18	WG638235
Carbon tetrachloride	mg/l	0.0218	0	.025	87.2	49-140	L621766-18	WG638235
Chlorobenzene	mg/l	0.0232	0	.025	92.9	69-126	L621766-18	WG638235
Chlorodibromomethane	mg/l	0.0221	0	.025	88.6	68-130	L621766-18	WG638235
Chloroethane	mg/l	0.0219	0	.025	87.4	32-177	L621766-18	WG638235
Chloroform	mg/l	0.0231	0	.025	92.3	64-130	L621766-18	WG638235
Chloromethane	mg/l	0.0210	0	.025	84.0	27-155	L621766-18	WG638235
cis-1,2-Dichloroethene	mg/l	0.0217	0	.025	86.8	54-137	L621766-18	WG638235
cis-1,3-Dichloropropene	mg/l	0.0227	0	.025	90.6	63-127	L621766-18	WG638235
Di-isopropyl ether	mg/l	0.0234	0	.025	93.7	58-133	L621766-18	WG638235
Dibromomethane	mg/l	0.0218	0	.025	87.4	68-131	L621766-18	WG638235
Dichlorodifluoromethane	mg/l	0.0271	0	.025	108.	16-188	L621766-18	WG638235
Ethylbenzene	mg/l	0.0227	0	.025	90.9	64-135	L621766-18	WG638235
Hexachloro-1,3-butadiene	mg/l	0.0207	0	.025	83.0	64-140	L621766-18	WG638235
Isopropylbenzene	mg/l	0.0230	0	.025	92.2	62-134	L621766-18	WG638235
Methyl tert-butyl ether	mg/l	0.0237	0	.025	94.7	55-136	L621766-18	WG638235
Methylene Chloride	mg/l	0.0237	0.000718	.025	91.8	52-130	L621766-18	WG638235
n-Butylbenzene	mg/l	0.0235	0	.025	93.9	62-142	L621766-18	WG638235
n-Propylbenzene	mg/l	0.0231	0	.025	92.4	62-137	L621766-18	WG638235
Naphthalene	mg/l	0.0219	0	.025	87.7	65-140	L621766-18	WG638235
p-Isopropyltoluene	mg/l	0.0223	0	.025	89.3	64-142	L621766-18	WG638235
sec-Butylbenzene	mg/l	0.0229	0	.025	91.8	67-139	L621766-18	WG638235
Styrene	mg/l	0.0226	0	.025	90.5	58-152	L621766-18	WG638235
tert-Butylbenzene	mg/l	0.0225	0	.025	90.0	66-139	L621766-18	WG638235
Tetrachloroethene	mg/l	0.0228	0	.025	91.2	56-139	L621766-18	WG638235

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Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
		Matrix Spike						
Toluene	mg/l	0.0227	0	.025	90.6	61-126	L621766-18	WG638235
trans-1,2-Dichloroethene	mg/l	0.0221	0	.025	88.4	45-137	L621766-18	WG638235
trans-1,3-Dichloropropene	mg/l	0.0240	0	.025	95.9	59-130	L621766-18	WG638235
Trichloroethene	mg/l	0.0226	0	.025	90.3	40-155	L621766-18	WG638235
Trichlorofluoromethane	mg/l	0.0261	0	.025	104.	35-177	L621766-18	WG638235
Vinyl chloride	mg/l	0.0244	0	.025	97.6	32-159	L621766-18	WG638235
Xylenes, Total	mg/l	0.0680	0	.075	90.7	64-133	L621766-18	WG638235
4-Bromofluorobenzene					96.83	82-120		WG638235
Dibromofluoromethane					103.4	82-126		WG638235
Toluene-d8					97.97	92-112		WG638235
Gasoline Range Organics-NWTPH	mg/l	6.64	1.22	5.5	98.4	58-122	L621315-14	WG638489
a,a,a-Trifluorotoluene(FID)					107.2	62-128		WG638489
Copper	mg/l	0.0564	0.00340	.0556	95.3	75-125	L621709-02	WG638476
Lead	mg/l	0.0530	0.000130	.0556	95.1	75-125	L621709-02	WG638476
Zinc	mg/l	0.315	0.260	.0556	98.9	75-125	L621709-02	WG638476

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
		Matrix Spike Duplicate							
1,1,1,2-Tetrachloroethane	mg/l	0.0225	0.0218	89.9	71-130	2.99	20	L621766-18	WG638235
1,1,1-Trichloroethane	mg/l	0.0262	0.0227	105.	58-137	14.1	20	L621766-18	WG638235
1,1,2,2-Tetrachloroethane	mg/l	0.0238	0.0233	95.2	64-149	2.35	20	L621766-18	WG638235
1,1,2-Trichloroethane	mg/l	0.0230	0.0235	92.1	73-128	2.00	20	L621766-18	WG638235
1,1,2-Trichlorotrifluoroethane	mg/l	0.0225	0.0216	90.2	36-159	4.13	21	L621766-18	WG638235
1,1-Dichloroethane	mg/l	0.0262	0.0235	105.	58-133	10.7	20	L621766-18	WG638235
1,1-Dichloroethene	mg/l	0.0224	0.0212	89.6	32-152	5.51	20	L621766-18	WG638235
1,1-Dichloropropene	mg/l	0.0279	0.0235	112.	50-140	17.2	20	L621766-18	WG638235
1,2,3-Trichlorobenzene	mg/l	0.0237	0.0212	94.8	68-135	11.4	20	L621766-18	WG638235
1,2,3-Trichloropropane	mg/l	0.0253	0.0233	101.	74-137	8.42	20	L621766-18	WG638235
1,2,3-Trimethylbenzene	mg/l	0.0239	0.0218	95.6	67-133	9.07	20	L621766-18	WG638235
1,2,4-Trichlorobenzene	mg/l	0.0256	0.0236	102.	67-133	8.18	20	L621766-18	WG638235
1,2,4-Trimethylbenzene	mg/l	0.0228	0.0222	91.0	62-141	2.50	20	L621766-18	WG638235
1,2-Dibromo-3-Chloropropane	mg/l	0.0263	0.0243	105.	55-148	7.94	22	L621766-18	WG638235
1,2-Dibromoethane	mg/l	0.0254	0.0247	102.	71-129	2.58	20	L621766-18	WG638235
1,2-Dichlorobenzene	mg/l	0.0253	0.0227	101.	75-125	11.0	20	L621766-18	WG638235
1,2-Dichloroethane	mg/l	0.0282	0.0250	113.	59-135	11.7	20	L621766-18	WG638235
1,2-Dichloropropane	mg/l	0.0228	0.0208	91.1	68-126	9.10	20	L621766-18	WG638235
1,3,5-Trimethylbenzene	mg/l	0.0229	0.0219	91.6	67-136	4.27	20	L621766-18	WG638235
1,3-Dichlorobenzene	mg/l	0.0236	0.0230	94.6	69-131	2.92	20	L621766-18	WG638235
1,3-Dichloropropane	mg/l	0.0242	0.0248	96.9	70-122	2.49	20	L621766-18	WG638235
1,4-Dichlorobenzene	mg/l	0.0251	0.0223	100.	70-123	11.7	20	L621766-18	WG638235
2,2-Dichloropropane	mg/l	0.0262	0.0224	105.	51-141	15.6	20	L621766-18	WG638235
2-Butanone (MEK)	mg/l	0.119	0.101	95.6	51-149	16.7	22	L621766-18	WG638235
2-Chloroethyl vinyl ether	mg/l	0.000760	0.00179	0.608*	10-161	81.0*	40	L621766-18	WG638235
2-Chlorotoluene	mg/l	0.0239	0.0229	95.4	65-133	4.01	20	L621766-18	WG638235
4-Chlorotoluene	mg/l	0.0231	0.0225	92.4	67-129	2.72	20	L621766-18	WG638235
4-Methyl-2-pentanone (MIBK)	mg/l	0.135	0.118	108.	53-154	12.8	21	L621766-18	WG638235
Acetone	mg/l	0.0825	0.0652	60.8	34-146	23.5*	22	L621766-18	WG638235
Acrolein	mg/l	0.123	0.119	98.6	10-189	3.57	30	L621766-18	WG638235
Acrylonitrile	mg/l	0.138	0.119	111.	49-162	15.2	20	L621766-18	WG638235
Benzene	mg/l	0.0259	0.0235	104.	51-134	9.69	20	L621766-18	WG638235
Bromobenzene	mg/l	0.0224	0.0218	89.5	64-130	2.64	20	L621766-18	WG638235
Bromodichloromethane	mg/l	0.0240	0.0218	95.9	67-132	9.61	20	L621766-18	WG638235
Bromoform	mg/l	0.0226	0.0220	90.3	59-137	2.49	20	L621766-18	WG638235
Bromomethane	mg/l	0.0309	0.0270	124.	23-177	13.6	21	L621766-18	WG638235

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Carbon tetrachloride	mg/l	0.0248	0.0218	99.3	49-140	13.0	20	L621766-18	WG638235
Chlorobenzene	mg/l	0.0236	0.0232	94.5	69-126	1.74	20	L621766-18	WG638235
Chlorodibromomethane	mg/l	0.0218	0.0221	87.2	68-130	1.55	20	L621766-18	WG638235
Chloroethane	mg/l	0.0243	0.0219	97.2	32-177	10.6	21	L621766-18	WG638235
Chloroform	mg/l	0.0259	0.0231	103.	64-130	11.4	20	L621766-18	WG638235
Chloromethane	mg/l	0.0232	0.0210	92.6	27-155	9.82	20	L621766-18	WG638235
cis-1,2-Dichloroethene	mg/l	0.0241	0.0217	96.5	54-137	10.6	20	L621766-18	WG638235
cis-1,3-Dichloropropene	mg/l	0.0247	0.0227	98.9	63-127	8.75	20	L621766-18	WG638235
Di-isopropyl ether	mg/l	0.0271	0.0234	108.	58-133	14.4	20	L621766-18	WG638235
Dibromomethane	mg/l	0.0245	0.0218	98.0	68-131	11.5	20	L621766-18	WG638235
Dichlorodifluoromethane	mg/l	0.0305	0.0271	122.	16-188	11.9	22	L621766-18	WG638235
Ethylbenzene	mg/l	0.0231	0.0227	92.5	64-135	1.70	20	L621766-18	WG638235
Hexachloro-1,3-butadiene	mg/l	0.0230	0.0207	92.2	64-140	10.5	20	L621766-18	WG638235
Isopropylbenzene	mg/l	0.0235	0.0230	93.8	62-134	1.74	20	L621766-18	WG638235
Methyl tert-butyl ether	mg/l	0.0264	0.0237	105.	55-136	10.8	20	L621766-18	WG638235
Methylene Chloride	mg/l	0.0254	0.0237	98.8	52-130	7.20	20	L621766-18	WG638235
n-Butylbenzene	mg/l	0.0260	0.0235	104.	62-142	10.1	20	L621766-18	WG638235
n-Propylbenzene	mg/l	0.0234	0.0231	93.8	62-137	1.45	20	L621766-18	WG638235
Naphthalene	mg/l	0.0249	0.0219	99.7	65-140	12.8	20	L621766-18	WG638235
p-Isopropyltoluene	mg/l	0.0232	0.0223	92.6	64-142	3.62	20	L621766-18	WG638235
sec-Butylbenzene	mg/l	0.0234	0.0229	93.8	67-139	2.15	20	L621766-18	WG638235
Styrene	mg/l	0.0230	0.0226	92.2	58-152	1.83	20	L621766-18	WG638235
tert-Butylbenzene	mg/l	0.0227	0.0225	91.0	66-139	1.12	20	L621766-18	WG638235
Tetrachloroethene	mg/l	0.0231	0.0228	92.2	56-139	1.19	20	L621766-18	WG638235
Toluene	mg/l	0.0247	0.0227	98.9	61-126	8.73	20	L621766-18	WG638235
trans-1,2-Dichloroethene	mg/l	0.0234	0.0221	93.6	45-137	5.61	20	L621766-18	WG638235
trans-1,3-Dichloropropene	mg/l	0.0262	0.0240	105.	59-130	8.88	20	L621766-18	WG638235
Trichloroethene	mg/l	0.0260	0.0226	104.	40-155	14.0	20	L621766-18	WG638235
Trichlorofluoromethane	mg/l	0.0261	0.0261	104.	35-177	0.0400	23	L621766-18	WG638235
Vinyl chloride	mg/l	0.0270	0.0244	108.	32-159	10.1	21	L621766-18	WG638235
Xylenes, Total	mg/l	0.0688	0.0680	91.7	64-133	1.11	20	L621766-18	WG638235
4-Bromofluorobenzene				93.38	82-120				WG638235
Dibromofluoromethane				107.3	82-126				WG638235
Toluene-d8				100.0	92-112				WG638235
Gasoline Range Organics-NWTPH	mg/l	6.95	6.64	104.	58-122	4.62	20	L621315-14	WG638489
a,a,a-Trifluorotoluene(FID)				107.9	62-128				WG638489
Copper	mg/l	0.0566	0.0564	95.7	75-125	0.354	20	L621709-02	WG638476
Lead	mg/l	0.0527	0.0530	94.6	75-125	0.568	20	L621709-02	WG638476
Zinc	mg/l	0.320	0.315	108.	75-125	1.57	20	L621709-02	WG638476

Batch number /Run number / Sample number cross reference

WG638235: R2555179: L621775-01 02
WG638291: R2557197: L621775-01 02
WG638489: R2558897: L621775-01 02
WG638288: R2559818: L621775-01 02
WG638476: R2560717: L621775-01 02
WG638285: R2561598: L621775-01 02
WG638407: R2563757: L621775-01 02
WG638039: R2568939: L621775-01 02

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Hart Crowser - Portland, OR
Leon Lahiere
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Beaverton, OR 97008

Quality Assurance Report
Level II

L621775

March 05, 2013

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Hart Crowser - Portland, OR

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Beaverton,OR 97008

Billing information.

Accounts Payable
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C207

Chain of Custody
Page 1 of 1

ESC LAB SCIENCES
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Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: Leon Lahiere

Email: leon.lahiere@hartcrowser.co

Project Description: Brix Maritime

City/State Collected: Portland/OR

Phone: (503) 620-7284
FAX:

Client Project #: ~~15534-00~~ 15634-00

Lab Project #: HARCROPOR-BRIX

Collected by (print): Jason R. Miles

Site/Facility ID#:

P.O.#: 15634-00/Task 11

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: HARCROPOR (lab use only)
Template/Prelogin: T81457/ P403568
Cooler #: 8/29 MB
Shipped Via: FedEX Saver

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	8082 100ml Amb-NoPres Low Level PCBs	8270PHTH 100ml Amb NoPres Low Level	Metals- Cu, Pb, Zn 500mlHDPE-HNO3 C2	NWTPHDX 100ml Amb-HCl C2	NWTPHGX 40mlAmb HCl	SVPAHSIMLVID 40mlAmb-NoPres Low Level	TSS 1L-HDPE NoPres	V8260 40mlAmb-HCl	Remarks/Contaminant	Sample # (lab only)
Outfall A	Grab	GW	N/A	02/22/13	1104	16	X	X	X	X	X	X	X	X	L621775	-01
Outfall B	Grab	GW	N/A	02/22/13	1014	~~15~~ 16 JM	X	X	X	X	X	X	X	X	2 PAH VOAs rather than 3	-02

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

5413472 19471

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via:	Condition: (lab use only)
	02/22/13	1415		☐ UPS ☒ FedEx ☐ Courier ☐ ____	OK
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.8 Bottles Received: 31	COC Seal Intact: ✓ Y ___ N ___ NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 2-23-13 Time: 0920	pH Checked: C2 NCF: